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UPPER ETONIA CREEK HYDROLOGIC STUDY

PHASE II: FINAL REPORT

(REVISED)

by

Louis H. Motz and James P. Heaney
University of Florida

Special Publication SJ92-SP18

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PHASE II Final Report (Revised)

by

Louis H. Motz and James P. Heaney
Faculty Investigators

William K. Denton, Michael S. Fowler, and Geoffrey Leiter
Graduate Student Investigators

Departments of Civil Engineering
and
Environmental Engineering Sciences

University of Florida

For

Douglas A. Munch
Project Manager

St. Johns River Water Management District
Palatka, Florida

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ERRATA SHEET

The revised version of *Upper Etonia Creek hydrologic study: Phase II: Final report* includes changes in the following parts of the report.

- Page xii of the Executive Summary
- Subsection 2.2.2 Investigations in the UECB
- Section 2.3 Physiographic and Topographic Features
- Subsection 2.6.1 Observed Fluctuations and Droughts
- Section 4.8 Water Use
- Section 5.1 Lake Levels and Groundwater Data
- Subsection 5.6.1 Lake and Groundwater Levels
- Subsection 5.6.2 Hydraulic Head Along Cross-Section
- Subsection 5.6.3 Water Levels at Gold Head Sand Mine
- Section 6.1 Groundwater Model
- Subsection 6.4.1 Starting Values for Hydraulic Conductivity
- Subsection 6.4.2 Results
- Subsection 6.4.4 Transmissivity and Leakance
- Paragraph 7.3.2.5 Lake Geneva
- Subsection 8.3.2 Sand Hill Lake
- Subsection 8.3.3 Magnolia Lake
- Subsection 8.3.4 Brooklyn Lake
- Subsection 8.3.5 Lake Geneva
- Subsection 8.4.1 Methodology Using Weekly Time Step
- Subsection 8.4.3 Magnolia Lake
- Subsection 8.4.4 Brooklyn Lake
- Subsection 8.4.5 Lake Geneva
- Section 8.5 Summary of Leakance and Leakage Results
- Subsection 8.6.2 Long-Term Trend in Upper Floridan Aquifer Water Levels
- Section 9.1 Summary
- Section 9.2 Conclusions
- Chapter 10.0 References
- Figures 4-8, 5-1, 5-6, 5-7, 5-9, 5-10, 6-1, 6-2, 8-7, 8-8, 8-10, 8-12, 8-16, 8-19, 8-24, 8-27, and 8-30
- Tables 4-2, 5-2, 5-3, 5-4, 6-1, 8-3, and A-1

The revisions include improvements in the water table information, which resulted in changes to the ground water model cross sections, and improvements in the short-term water budgets for Sand Hill, Magnolia, and Brooklyn lakes and Lake Geneva. These changes did not result in significant changes to the long-term water budgets for these lakes nor modify the conclusions contained in the report.

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EXECUTIVE SUMMARY

The Upper Etonia Creek Basin (UECB), located in parts of Alachua, Bradford, Clay, and Putnam counties, is part of the lower St. Johns River Basin. Many of the lakes in the basin coincide with karst features formed by solution of the underlying limestone, and hydraulic connections exist between the lakes and the underlying aquifers. In recent years, lake levels and groundwater levels have declined by significant amounts in some parts of the area. This has prompted Clay County and concerned citizens to request that the St. Johns River Water Management District (SJRWMD) investigate the water resources of the area. In January 1990, the SJRWMD authorized the University of Florida to conduct an investigation to evaluate long-term changes and trends in rainfall, evapotranspiration, groundwater levels, and water use in the basin. In the first phase of the investigation, below average rainfall was identified as the primary cause of the lake-level declines in the UECB. The second phase has consisted of compiling and evaluating hydrogeologic data, developing a groundwater model, simulating lake stages using water-budget data, and estimating the impacts on the stage of Brooklyn Lake that would be caused by drawdowns in the Upper Floridan aquifer and by changes in the surface-water inflow to Brooklyn Lake.

The nearest long-term precipitation stations are at Gainesville, Melrose, Palatka, and Starke, all located outside but adjacent to the UECB. At Gainesville, the mean annual rainfall for 1897-1991 is 51.04 inches. Short-term precipitation data are available at eight rain gages installed by SJRWMD starting in 1988. For the short-term record, the precipitation at these gages has been less than the precipitation recorded at Gainesville. A major groundwater mound in the Upper Floridan aquifer centered in the Keystone Heights area indicates that the lakes and surficial aquifer system are a major source of recharge to the underlying Upper Floridan aquifer. Groundwater levels decreased by approximately 5 feet from 1978 to 1989 in that area. Groundwater is pumped in the UECB for public supply, agriculture, and mining, and the total estimated pumpage is approximately 7 million gallons per day.

Three major trends have been recorded in the long-term rainfall at Gainesville, based on the cumulative departure from the mean annual rainfall. Rainfall was below the long-term average during 1897-1943, above average during 1944-1972, and below average during 1973-1991. Short-term trends within the long-term trends

also have occurred. Periods of below average rainfall have been followed by lowered lake stages at Brooklyn Lake, indicating that rainfall deficiencies that occur for several years are a major factor in lowering the stage of Brooklyn Lake.

Surface-water and groundwater data were compiled to conduct water-budget analyses and lake-stage simulations for lakes Sand Hill, Magnolia, Brooklyn, and Geneva. Vertical leakage from Brooklyn Lake was computed to be 72.9 inches/year during 1989-1991. The leakage was 119.3 inches/year during 1965-1991 when the lake stage was higher and thus the head difference between the lake and the Upper Floridan aquifer was greater. The vertical leakage from Brooklyn Lake was significantly greater than the vertical leakage from the other lakes. The hydraulic connection between the lake and the Upper Floridan aquifer is greater for Brooklyn Lake than for the other lakes, and a greater proportion of the water in Brooklyn Lake is lost to vertical leakage.

The drawdown in the Upper Floridan aquifer at Brooklyn Lake due to pumping at the Gold Head sand mine was estimated to be 0.17 feet. Based on the lake-stage simulation for Brooklyn Lake, this drawdown would have caused an average lowering of 0.08 feet and a maximum lowering of 0.13 feet in the Brooklyn Lake stage. Results using the lake-stage simulation also indicate that an average decline of 2.1 feet and a maximum decline of 6.7 feet in the Brooklyn Lake stage elevation can be attributed to the regionally downward trend in the Upper Floridan aquifer water level.

Recommendations for future action include investigations in the UECB and also in the region adjacent to the UECB. The completion of hydrogeologic studies being conducted concurrently by SJRWMD should be expedited so that the results and conclusions of those studies can be compared to the results and conclusions of this investigation. Details of the surficial aquifer system, the Hawthorn Group, and the intermediate aquifer system need to be delineated better, and the existence of a discharge area in the intermediate aquifer that coincides with a recharge area in the Upper Floridan aquifer in the vicinity of White Sands Lake needs to be investigated further. Detailed studies should be conducted in the vicinity of Brooklyn Lake to help confirm and refine the results of this investigation, and the feasibility of lake-stage augmentation needs to be evaluated. The regional decline of water levels in the Upper Floridan aquifer that has affected the stage of Brooklyn Lake should be investigated further by quantifying the impacts that present and future pumping in the region have on lakes in the UECB.

1.0 INTRODUCTION

1.1 Project Description

The Upper Etonia Creek Basin (UECB), located in parts of Alachua, Bradford, Clay, and Putnam counties in north-central Florida, is part of the lower St. Johns River Basin. Many of the lakes in the UECB coincide with karst features formed by solution of the underlying limestone, and hydraulic connections exist between the lakes and the underlying Upper Floridan aquifer. In recent years, lake levels have declined by significant amounts in some parts of the area. This has prompted Clay County and concerned citizens in the area to request that the St. Johns River Water Management District (SJRWMD) investigate the water resources of the area.

In January 1990, SJRWMD authorized the University of Florida (UF) to conduct an investigation to evaluate long-term changes and trends in lake levels in the basin, including changes and trends in rainfall, evapotranspiration, and water use. In the first phase of the investigation, below average rainfall over the past several years was identified as the primary cause of the lake-level declines in the UECB (Motz et al., 1991a). Also, a second phase of the investigation was recommended to investigate some of the hydrologic factors in more detail.

1.2 Objectives

The second phase of the UECB hydrologic investigation was authorized by SJRWMD in December 1990. The objectives of this part of the investigation were to gain additional insight into the relation between lake levels and the surface-water and groundwater systems in the UECB.

1.3 Tasks

The second phase of the investigation consisted of five tasks:

- (1) evaluation and compilation of hydrogeologic data;
- (2) lake-stage simulations;

- (3) development of a groundwater model;
- (4) development of a simulations and operations model; and
- (5) report of findings.

Task 1 consisted of compiling geophysical, geologic, and hydrologic data being collected concurrently by SJRWMD in the UECB. In task 2, lake-stage simulations using water-budget data for selected lakes in the UECB were continued from the first phase of the investigation, and characteristics of lake-bottom leakage were quantified for these lakes based on short-term simulations. In task 3, a two-dimensional groundwater flow model in a vertical plane was developed for a representative cross-section in the northern part of the UECB. Task 4 consisted of performing long-term simulations for the four lakes in the UECB chain of lakes for which adequate data were available. Also, Task 4 consisted of simulating the impacts on the stage of Brooklyn Lake that would be caused by pumping from the Upper Floridan aquifer at Gold Head sand mine, by changes in the long-term downward trend in groundwater levels in the Upper Floridan aquifer, and by changes in surface-water inflow to Brooklyn Lake. Task 5 consisted of reporting the results of the second phase of the hydrologic assessment of the UECB.

1.4 Acknowledgments

Financial support for this investigation was provided by Clay County and SJRWMD. The investigation was conducted by the Departments of Civil Engineering and Environmental Engineering Sciences in cooperation with the Florida Water Resources Research Center at UF. The facilities of the GeoPlan Center in the Department of Urban and Regional Planning at UF were used to prepare some of the base maps and overlays used in this report. Appreciation is extended to the research sponsors and to SJRWMD personnel for their help and assistance in the investigation. Appreciation is also expressed to Clay County personnel and the many local residents who have provided valuable data and information about the study area.

2.0 REGIONAL SETTING

2.1 Location

The UECB is located in parts of Alachua, Bradford, Clay, and Putnam counties (see Figure 2-1). The basin has an area of approximately 172 square miles, and it lies between 29°37' and 29°53' north latitude and 81°51' and 82°04' west longitude (Yobbi and Chappel, 1979).

2.2 Previous Investigations

2.2.1 Regional and State-Wide Investigations

A number of previous investigations at the regional and state-wide level include aspects of the physiography and geology of the UECB. MacNeil (1950) described Pleistocene shore lines in Florida and Georgia, including those that occur in the UECB. Puri and Vernon (1964) summarized the geology of Florida, and White (1970) described the geomorphology of the Florida peninsula. Scott (1983) studied and mapped the Hawthorn Formation in northeastern Florida. Florida's groundwater hydrology has been studied by many investigators, including Stringfield (1966), who described the occurrence of artesian water in Tertiary Limestone in the southeastern states, including Florida, and by Miller (1986), who described the hydrogeologic framework of the Floridan aquifer system in Florida and in parts of Georgia, Alabama, and South Carolina. Also, Bush and Johnston (1987) described the Florida regional aquifer-system study (RASA) conducted by the U. S. Geological Survey (USGS), and Johnston and Bush (1988) summarized the hydrology of the Floridan aquifer system in Florida and in parts of Georgia, South Carolina, and Alabama. Andrews (1990) presented transmissivity and well yields for the Upper Floridan aquifer in Florida, based on the USGS RASA study (Bush and Johnston, 1988). Lakes on a state-wide basis were investigated by Deevey (1988), who estimated the volume of downward leakage from lakes, including several in the UECB. A comprehensive summary of the water resources of Florida was edited by Fernald and Patton (1984).

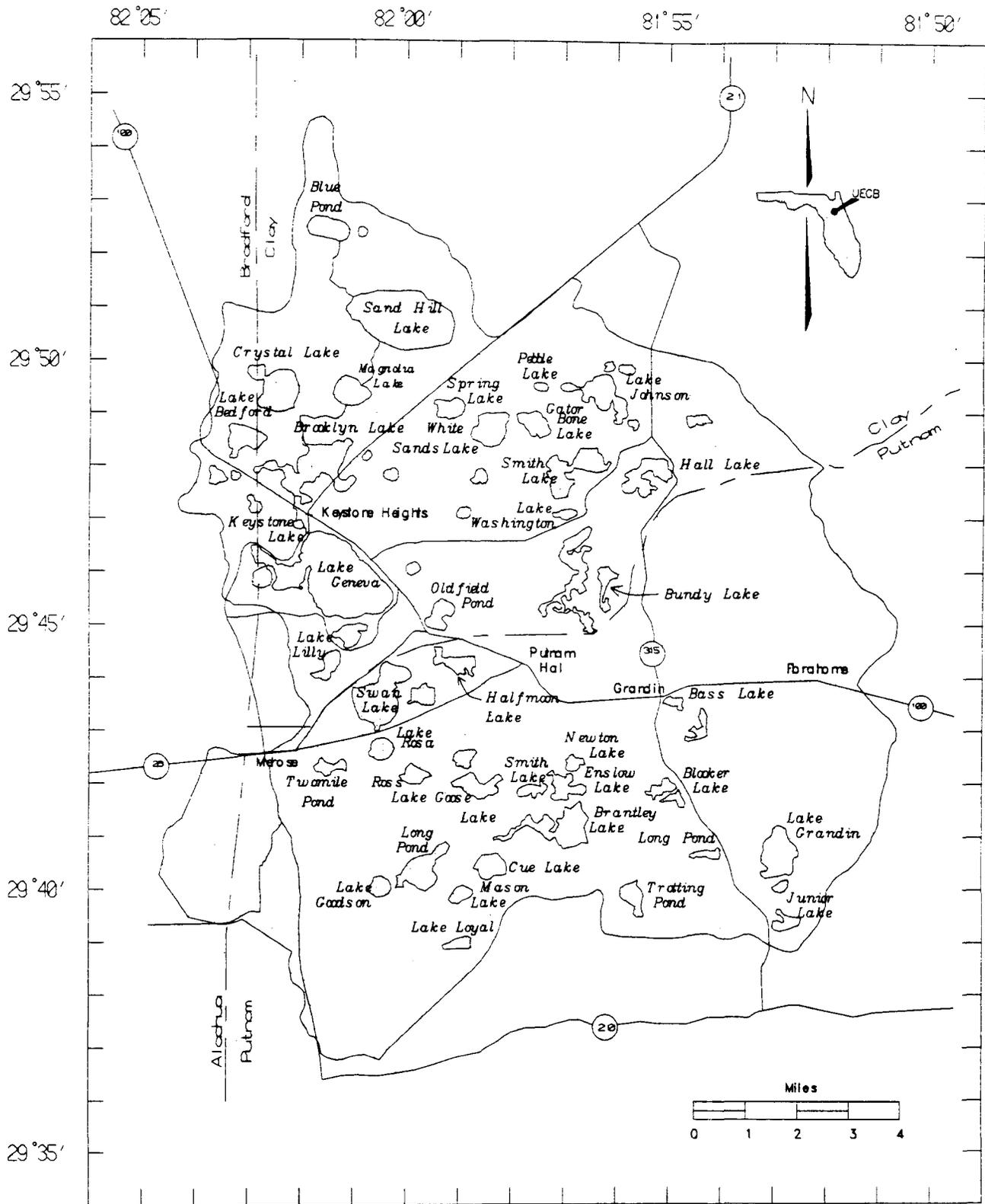


Figure 2-1. Upper Etonia Creek Drainage Basin

2.2.2 Investigations in the UECB

Clark et al. (1964) investigated the water resources of Alachua, Bradford, Clay, and Union counties, including the UECB. Snell and Anderson (1970) included limited aspects of the geology and groundwater hydrology of the UECB in their study of the water resources of northeast Florida, which emphasized the St. Johns River basin and adjacent coastal areas. Detailed investigations that included significant aspects of the UECB were conducted by Clark et al. (1962 and 1963), who investigated the hydrology and the declining lake levels that occurred during 1954-1958 in Brooklyn Lake near Keystone Heights, and by Bentley (1977), who investigated the surface-water and groundwater features of Clay County. Also, Yobbi and Chappell (1979) investigated and summarized the hydrology of the UECB, Arrington (1985) investigated the geology of the Interlachen Karstic Highlands, which includes the UECB, and Robison (1992) developed a surface-water model of the UECB that addressed whether local measures such as re-diverting stream flow, cleaning out ditches, or lowering culverts would mitigate low surface-water levels. Water use in the St. Johns River basin, including parts of the UECB, has been compiled by the SJRWMD and published in annual reports, i.e., for 1979, 1986, and 1987 (Marella, 1981, 1988, and 1990, respectively). Other reports, which have addressed aspects of groundwater pumping at the Gold Head sand mine in the UECB, have been prepared by Motz (1989), who reviewed and analyzed pumping test data, and by Missimer & Associates (1991), who investigated the hydrologic impacts associated with the pumping at the mine to support an application for a consumptive use permit.

2.2.3 Present Investigation

In the first phase of this present investigation, Motz et al. (1991a and 1991b) described the hydrology of the UECB and estimated leakage from lakes Brooklyn and Geneva. In the second phase of this investigation, Denton (1991), Leiter (1991), and Fowler (1991) prepared reports describing aspects of the groundwater system and hydrologic analyses of selected lakes in the UECB.

2.3 Physiographic and Topographic Features

The UECB is in the physiographic division of Florida known as the Northern Highlands (Puri and Vernon, 1964). Prominent features of the basin's topography include high sand hills in the northwestern part of the area, a large depression called the Florahome Valley in the eastern part of the area, and Levy's Prairie in the southwestern part of the area. The sand hills are part of Trail Ridge, a 130-mile long sand ridge that extends southward from southern Georgia to the southern parts of Clay and Bradford counties in the vicinity of Keystone Heights (Pirkle et al., 1977), and the area between the sand hills and Florahome Valley is called the Interlachen Karstic Highlands (Pirkle et al., 1977; Arrington, 1985). Elevations range from above 200 feet, National Geodetic Vertical Datum of 1929 (ft, NGVD, formerly called mean sea level) in the sand hill area to below 80 ft, NGVD in the Florahome Valley. Numerous solution depressions occur throughout the area, and the lakes in the area have developed within these depressions.

The basin contains more than 100 named and unnamed lakes, and the surface areas of most of the lakes are less than 200 acres (Motz et al., 1991a). A chain of eight interconnected lakes forms part of the Etonia Creek drainage basin. In this chain, flow occurs from Blue Pond downstream to Sand Hill Lake, Magnolia Lake, Brooklyn Lake, Lake Keystone, Lake Geneva, Oldfield Pond, Halfmoon Lake, and then to Putnam Prairie (see Figure 2-2). The lakes are connected by perennial or intermittent streams. Stream-bed profile elevations range from more than 170 ft, NGVD, at Blue Pond to approximately 90 ft, NGVD, at the inlet to Putnam Prairie (Yobbi and Chappel, 1979)(see Figure 2-3).

2.4 Rainfall

2.4.1 Climate and Average Rainfall

The climate in the UECB is classified as humid subtropical (Yobbi and Chappel, 1979). The basin lies in a zone of transition between the humid temperate climate of the southeastern U.S. and the tropical climate of the lower latitudes. On the average, the area receives more than half of its annual rainfall

LEGEND

- A. Perennial Stream
- B. Intermittent Stream
- C. Channelized Creek
- D. Canal
- E. Marsh or Swamp

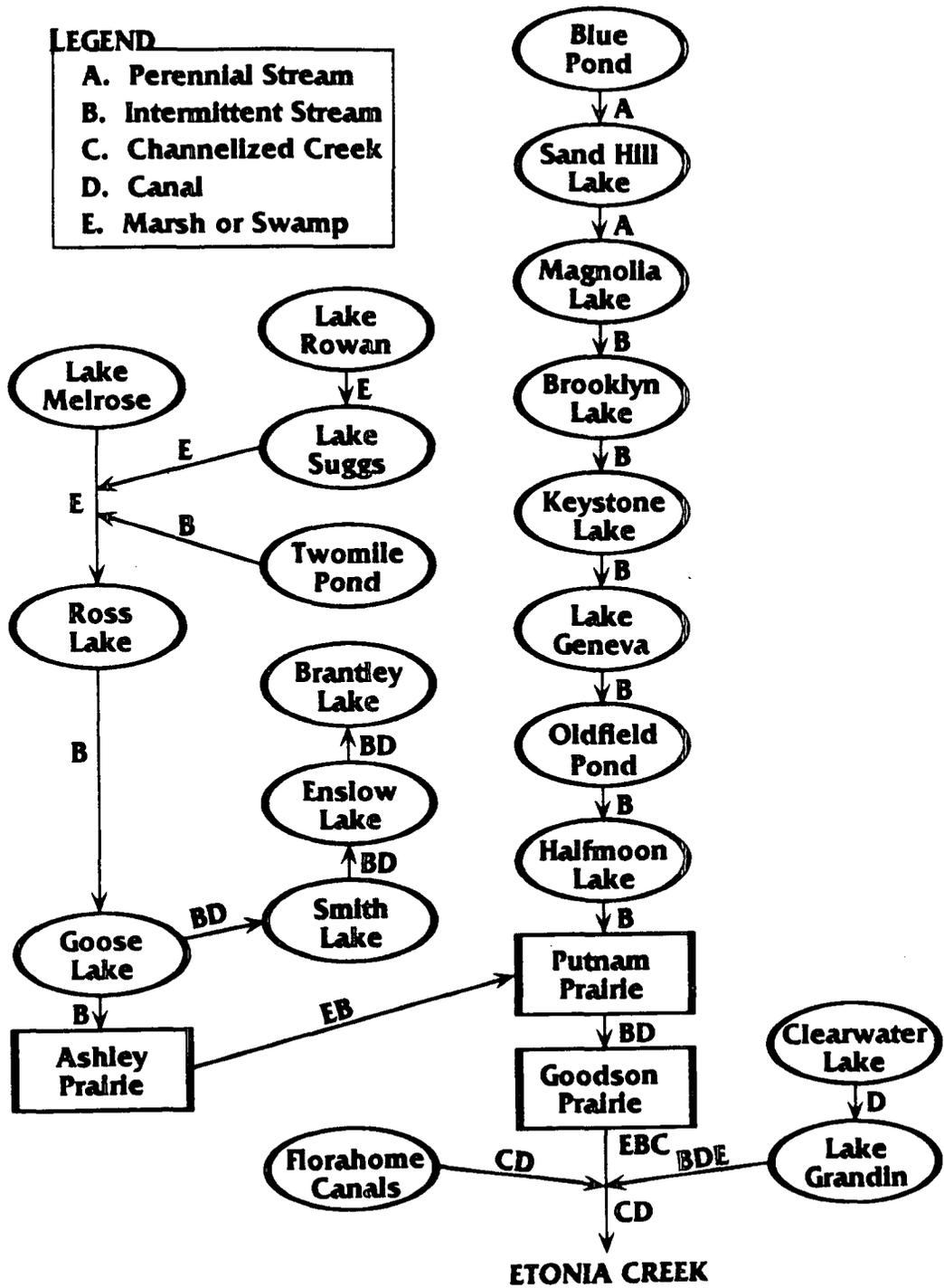


Figure 2-2. Schematic of Upper Etonia Creek Drainage Network (Source: Yobbi and Chappell, 1979)

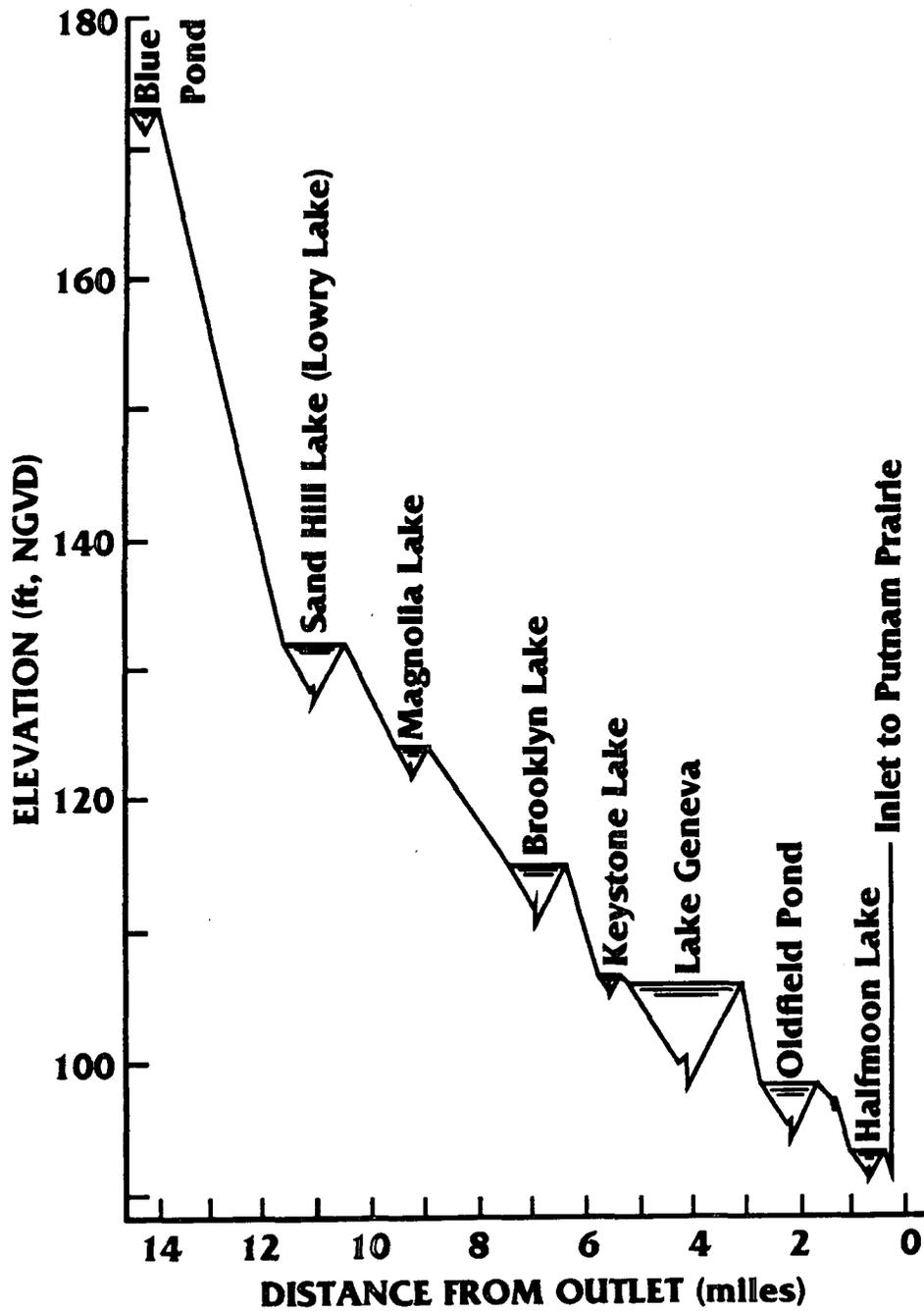


Figure 2-3. Stream Bed Profile from Blue Pond to Putnam Prairie
 (Source: Yobbi and Chappell, 1979)

during the 4-month period from June to September. Rainfall in the winter and early spring generally is the widespread type associated with frontal activity, while most of the rainfall in the summer is in the form of local showers and thundershowers (Clark et al., 1964).

Precipitation data within the UECB are sparse and only available for short periods of record. The nearest long-term stations are at Gainesville, Melrose, Palatka, and Starke, all located outside but adjacent to the UECB. The period of record for each gage varies, and only the Gainesville gage is still in operation. The gage closest to the UECB is the Melrose gage, which was operated from 1959 to 1969. Statistical comparisons of monthly and annual rainfall data from these four gages for the periods of record for which comparable data are available at the four gages indicate that the rainfall amounts are very nearly the same at these gages (Mozt et al., 1991a) (see Tables 2-1 and 2-2).

The period of record for the Gainesville gage is from 1897 to the present, and it appears to be an accurate representation of the long-term rainfall in the UECB, based on the statistical similarities that exist among the four stations that are adjacent to the UECB. At Gainesville, the mean annual rainfall for 1897-1991 is 51.04 inches (see Figure 2-4). The wettest year was 1964 with 76.95 inches of rainfall, which included rainfall totals of 10.59, 14.15, and 13.04 inches for July, August, and September, respectively. The driest year in the 1897-1991 period of record was 1917 with 32.79 inches. More recently, 1977 was also a very dry year with only 33.56 inches of rainfall.

Short-term precipitation data are available for the UECB at eight rain gages installed by SJRWMD beginning in 1988. These gages are located at Swan Lake, Lake Lily, Brooklyn Lake, Silver Lake, White Sands Lake, Lake Bedford, Gator Bone Lake, and Spring Lake (see Table 2-3). For the limited period of record and available data, the monthly precipitation values for the gages located in the UECB appear to be similar with only a small variability among them.

Table 2-1. Monthly Precipitation Adjacent to UECB

Station Record	Gainesville 1957-1989 (inches)	Melrose 1959-1969 (inches)	Palatka 1948-1986 (inches)	Starke 1958-1985 (inches)
Maximum	15.74	13.06	15.57	17.21
Minimum	0.10	0.20	0.05	0.08
Mean	4.42	4.38	4.39	4.54
Standard Deviation	3.10	3.28	3.16	3.12
Coefficient of Variation	0.70	0.75	0.72	0.69
Maximum-Minimum	15.64	12.86	15.52	17.13

Source: Motz et al., 1991a.

Table 2-2. Annual Precipitation Adjacent to UECB

Year	Gainesville (inches)	Melrose (inches)	Palatka (inches)	Starke (inches)	Number of Months Data Available
1960	42.58	40.06	40.20	35.58	9
1961	31.15	34.71	34.65	35.80	8
1962	27.85	26.34	26.21	32.12	7
1963	46.01	53.00	55.78	52.84	12
1964	44.99	49.76	60.00	50.41	9
1965	45.14	32.19	33.03	24.01	4
1966	16.18	13.63	14.55	13.25	2
1967	44.69	44.20	40.63	33.17	8
1968	41.92	41.15	41.01	49.60	12
1969	31.94	29.67	30.61	32.78	7
Mean	37.25	36.47	37.67	35.96	
Standard Deviation	9.50	11.12	12.65	11.71	
Coefficient of Variation	0.26	0.30	0.34	0.33	

Source: Motz et al., 1991a.

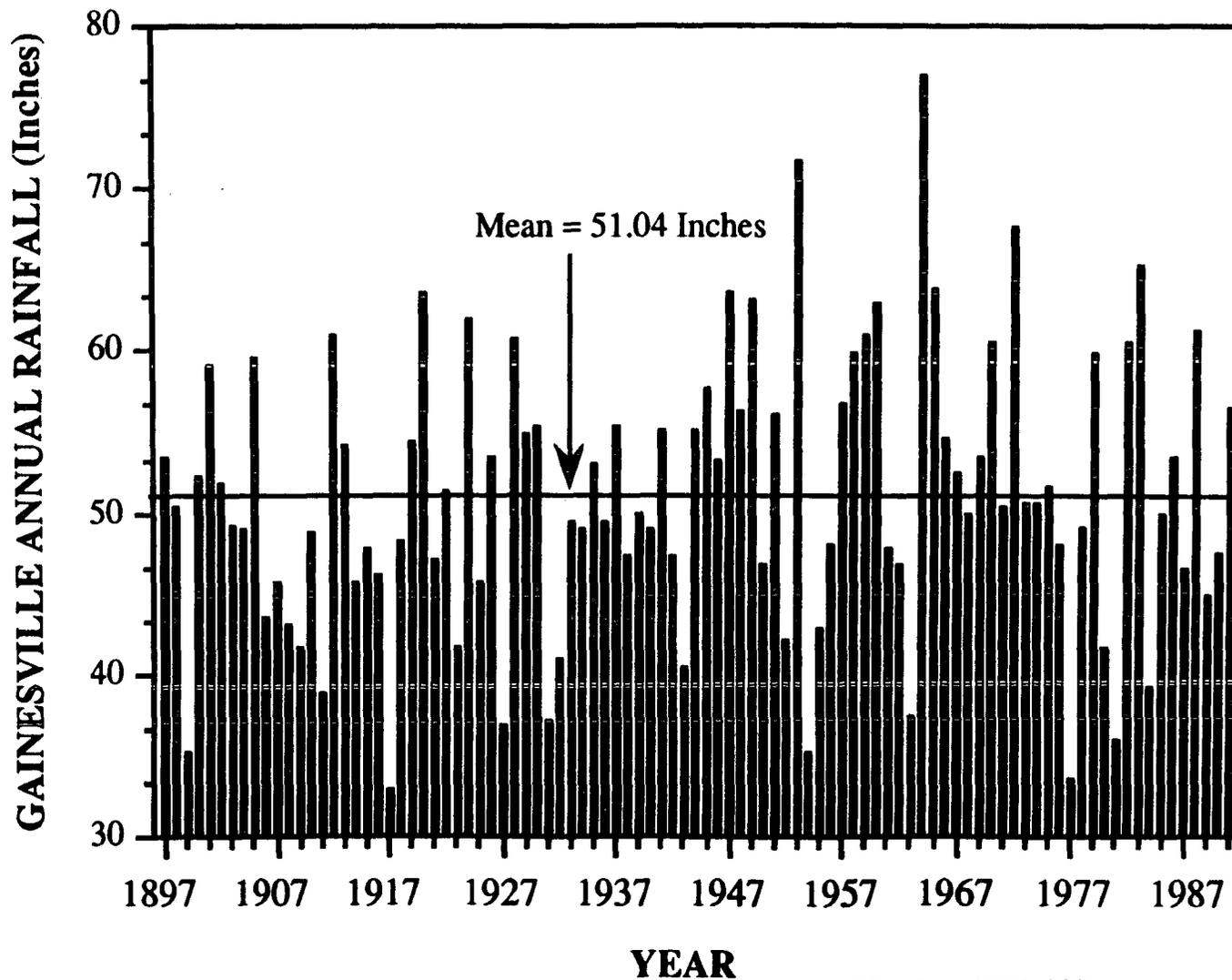


Figure 2-4. Annual Rainfall at Gainesville for 1897-1991

Table 2-3. Comparison of Short-Term Rainfall Amounts In and Adjacent to the UECB

Latitude Longitude	Swan Lake 294313 820018	Lily Lake 294429 820116	Brooklyn Lake 294746 820121	Silver Lake 294758 820332	White Sands Lake 294822 815827	Bedford Lake 294835 820323	Gator Bone Lake 294901 815745	Spring Lake 294912 815930	Penny Farms 295851 815553	Camp Blanding 295852 815934	Gainesville (Alachua)	Gainesville 3WSW
Apr-88											1.43	1.35
May-88				2.89							2.35	3.24
Jun-88				0.65							2.22	3.30
Jul-88				2.59							2.07	3.85
Aug-88	0.00			7.34							12.07	14.88
Sep-88	0.00										11.97	11.16
Oct-88				0.40							0.81	1.26
Nov-88	0.00			3.22							3.32	3.20
Dec-88	0.00			0.94							1.61	1.33
Jan-89				0.94							1.14	1.15
Feb-89				1.17							1.19	0.84
Mar-89				1.79							2.17	1.56
Apr-89				1.28							2.93	1.34
May-89				1.36						2.78	1.91	1.98
Jun-89	7.30			6.70						7.47	9.66	10.66
Jul-89	1.80			6.15						11.51	4.44	3.98
Aug-89				3.12						8.40	6.08	7.81
Sep-89	6.00		2.23	6.67							4.66	8.09
Oct-89			0.45	0.87						11.22	1.02	3.12
Nov-89	2.20		1.84	1.82						1.41	2.14	1.81
Dec-89	2.80		3.13	2.09						2.76	3.13	4.02
Jan-90			1.57	1.39					1.60	1.90		1.88
Feb-90			5.71	4.47					3.57	3.97		2.86
Mar-90			1.71	1.46						2.26		3.62

Table 2-3. Comparison of Short-Term Rainfall Amounts In and Adjacent to the UECB, con'd.

Latitude Longitude	Swan Lake 294313 820018	Lily Lake 294429 820116	Brooklyn Lake 294746 820121	Silver Lake 294758 820332	White Sands Lake 294822 815827	Bedford Lake 294835 820323	Gator Bone Lake 294901 815745	Spring Lake 294912 815930	Penny Farms 295851 815553	Camp Blanding 295852 815934	Gainesville (Alachua)	Gainesville 3WSW
Apr-90			2.30	3.03						2.95		3.67
May-90			1.98	1.52					0.88	0.79		3.18
Jun-90			7.85	8.70								9.04
Jul-90			4.76	4.81								10.36
Aug-90			1.43	2.43						4.31		8.10
Sep-90	2.30		0.68	1.39								2.14
Oct-90			7.03	5.54								3.51
Nov-90			1.59	1.34		1.20				1.60		1.07
Dec-90			1.66	1.49						1.08		1.39
Jan-91	8.20		5.73	4.78						7.68		6.79
Feb-91			0.30	0.27				1.16				0.66
Mar-91	4.50	8.20	7.53	9.01	8.27							10.19
Apr-91												4.62

SOURCE: Compiled by Leiter, 1991.

NOTES:

1989 rainfall was 33.96 inches at Silver Lake and 46.36 inches at Gainesville;
 1990 rainfall was 37.57 inches at Silver Lake, 38.27 inches at Brooklyn Lake, and 50.82 inches at Gainesville
 3WSW; and
 January 1991-March 1991 rainfall was 13.56 inches at Brooklyn Lake, 14.06 inches at Silver Lake, and 17.64
 inches at Gainesville.

However, gages located outside the UECB, i.e., Penny Farms, Camp Blanding, and Gainesville 3WSW, reported different rainfall amounts. For example, the Silver Lake gage, located in the UECB, recorded 33.96 inches of precipitation in 1989, while the Gainesville 3WSW gage recorded 46.36 inches for the same year. In 1990, Silver Lake recorded 37.57 inches, Brooklyn Lake recorded 38.27 inches, and Gainesville 3WSW recorded 50.82 inches of rainfall. Although the rainfall recorded at Gainesville was below average for 1989-1990, the rainfall in the UECB may have been even less during this period. It is not possible at this time to determine if long-term rainfall in the UECB is significantly different from areas such as Gainesville located adjacent to the basin, because the period of record at these recently installed rain gages is not long enough for any meaningful statistical comparison to be made. As the periods of record for these gages become better established, these gages have the potential to provide more accurate precipitation data for the UECB than the stations in Gainesville and other locations adjacent to the UECB.

2.4.2 Cumulative Departure from Average Rainfall

The cumulative departure from the mean annual rainfall at Gainesville was calculated for 1897-1991 (see Figure 2-5). The horizontal zero departure line represents the mean annual rainfall of 51.04 inches for the 1897-1991 period. Departures above (+) or below (-) the mean rainfall were calculated for each year, and then the departures were summed on a year-to-year basis. The cumulative departure curve represents the long-term cumulative changes that have occurred over the period of record. During the period 1897-1943, the cumulative departure decreased from 2.43 inches to -90.9 inches, indicating that the total rainfall for that 47-year period was 93.33 inches (or 1.99 inches/year) less than the total average rainfall would have been, based on the 1897-1991 period of record. During 1944-1972, the cumulative departure increased from -90.9 inches to 23.6 inches, indicating that the total rainfall for that 29-year period was

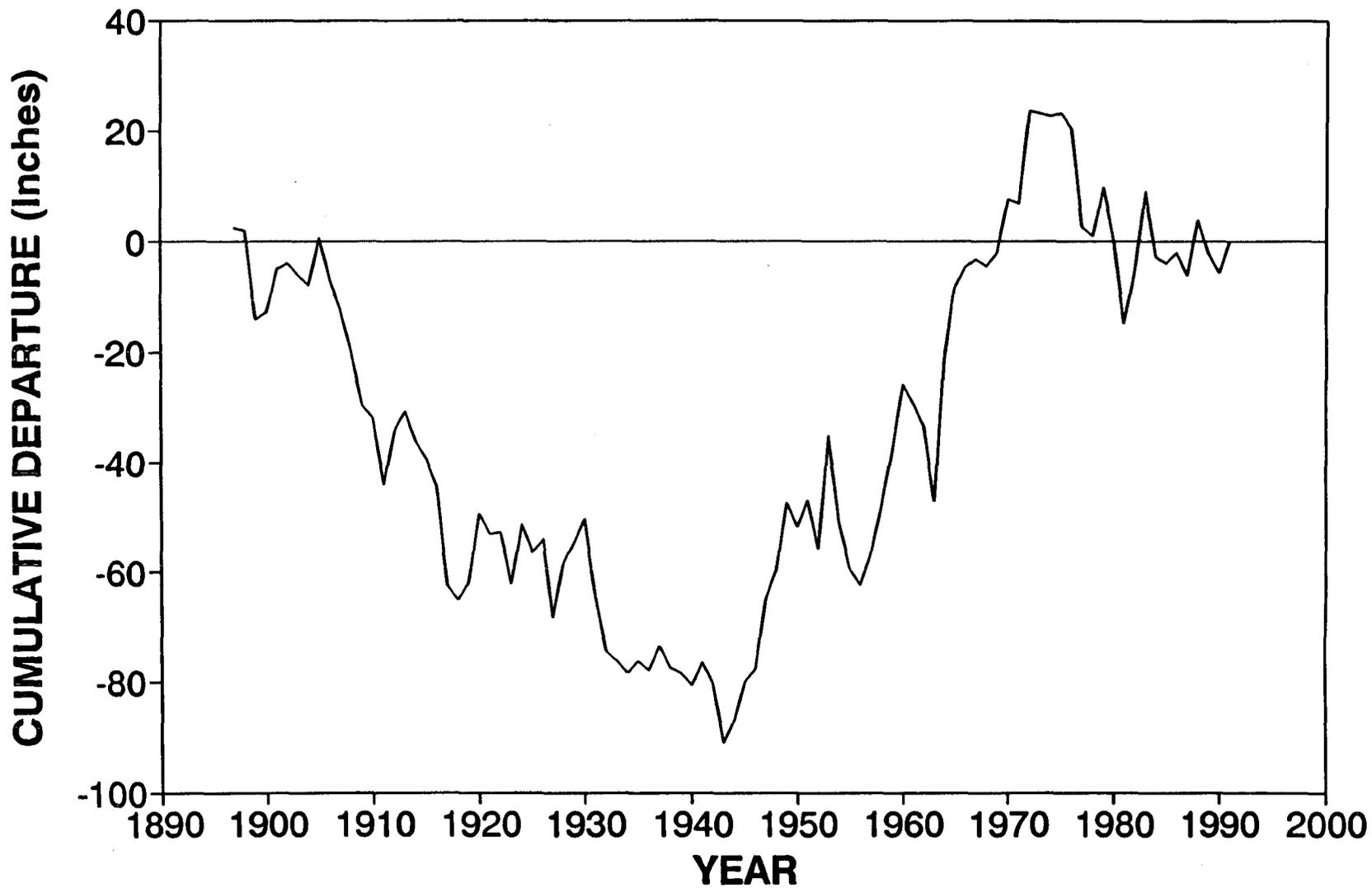


Figure 2-5. Cumulative Departure from Mean Annual Rainfall at Gainesville for 1897-1991

above the long-term average by 114.5 inches (or 3.95 inches/year). In the period 1973-1991, the cumulative departure decreased 23.6 inches, which indicates that the total rainfall for this 19-year period was below the long-term average by 23.6 inches (or 1.24 inches/year). Thus, on a long-term basis, the cumulative departure curve indicates clearly that three major trends have been recorded in the long-term annual rainfall at Gainesville. That is, the rainfall was consistently below average during 1897-1943, significantly above average during 1944-1972, and below average during 1973-1991.

In addition to the long-term trends in the cumulative departure curve, important short-term trends also can be identified by comparing the annual rainfall record and the cumulative departure curve (Figures 2-4 and 2-5). For example, the annual rainfall during 1954-1956 was 27.17 inches below average, and the slope of the cumulative departure curve changed from upward, or positive, to downward, or negative, from 1953 to 1956, reflecting this short-term period of deficient rainfall during the long-term period of above average rainfall. Similarly, rainfall during 1961-1963 was 21.38 inches below average, and the slope of the cumulative departure curve was downward from 1960 to 1963.

The period of below average rainfall that began in 1973 actually consists of several periods of below average rainfall separated by periods of slightly above average rainfall. For example, rainfall during 1976-1978 was 22.24 inches below average, and the cumulative departure curve from 1975 to 1978 decreased relatively steeply. Other years during which below average rainfall occurred during this period of record were 1980-1981 (24.57 inches below average), 1984-1985 (12.99 inches below average), 1987 (4.41 inches below average), and 1989-1990 (9.52 inches below average).

2.5 Evaporation and Evapotranspiration

The weather station closest to the UECB that measures evaporation is Gainesville, where daily pan evaporation has been measured from 1954 to the

present (Motz et al., 1991a). The mean annual pan evaporation at Gainesville for the period 1954-1989 is 61.63 inches (see Figure 2-6). The minimum pan evaporation of 54.48 inches occurred in 1983, and the maximum of 67.74 inches occurred in 1977. The mean annual evapotranspiration in north-central Florida ranges from 33.5 to 35.4 inches; mean annual lake evaporation is approximately 45 inches (Fernald and Patton, 1984).

2.6 Lake Level Declines

2.6.1 Observed Fluctuations and Droughts

Concerns about lake level declines in the UECB over the last few years are exemplified by Brooklyn Lake. This lake is considered to be a highly unstable lake due to a fluctuation of more than 24 ft over its period of record from 1957 to 1991 (Motz et al., 1991a) (see Figure 2-7). The maximum elevation during the period of record is 117.43 ft, NGVD, which occurred in October 1960, and the minimum elevation is 92.87 ft, NGVD, which occurred in April 1991. Prior to the period of record, a maximum elevation of 118.2 ft, NGVD, was reached in 1948, according to Clark et al. (1963).

Brooklyn Lake receded to a level of 20 ft below what was considered the normal stage during 1954-1958 and reached its lowest stage of record (to that date) of 97.2 ft, NGVD, in February 1958 following a three-year period of deficit rainfall from January 1954 to May 1957 (Clark et al., 1963). On a state-wide basis, the three-year period 1954-1956 was the most severe drought that had been recorded in Florida (Pride and Crooks, 1962). The drought was caused by rainfall deficiencies in amounts ranging from 7 to 11 inches during each of the three years. The cumulative deficiency during 1954-1957 at Gainesville was 27.17 inches (see Figure 2-4), and Brooklyn Lake declined to such a low stage that it separated into a number of small lakes and ponds, which is similar to what occurred in 1991. Brooklyn Lake began its recovery in mid-March 1958 when surface-water inflow from Magnolia Lake resumed (Clark et al., 1963). At the end

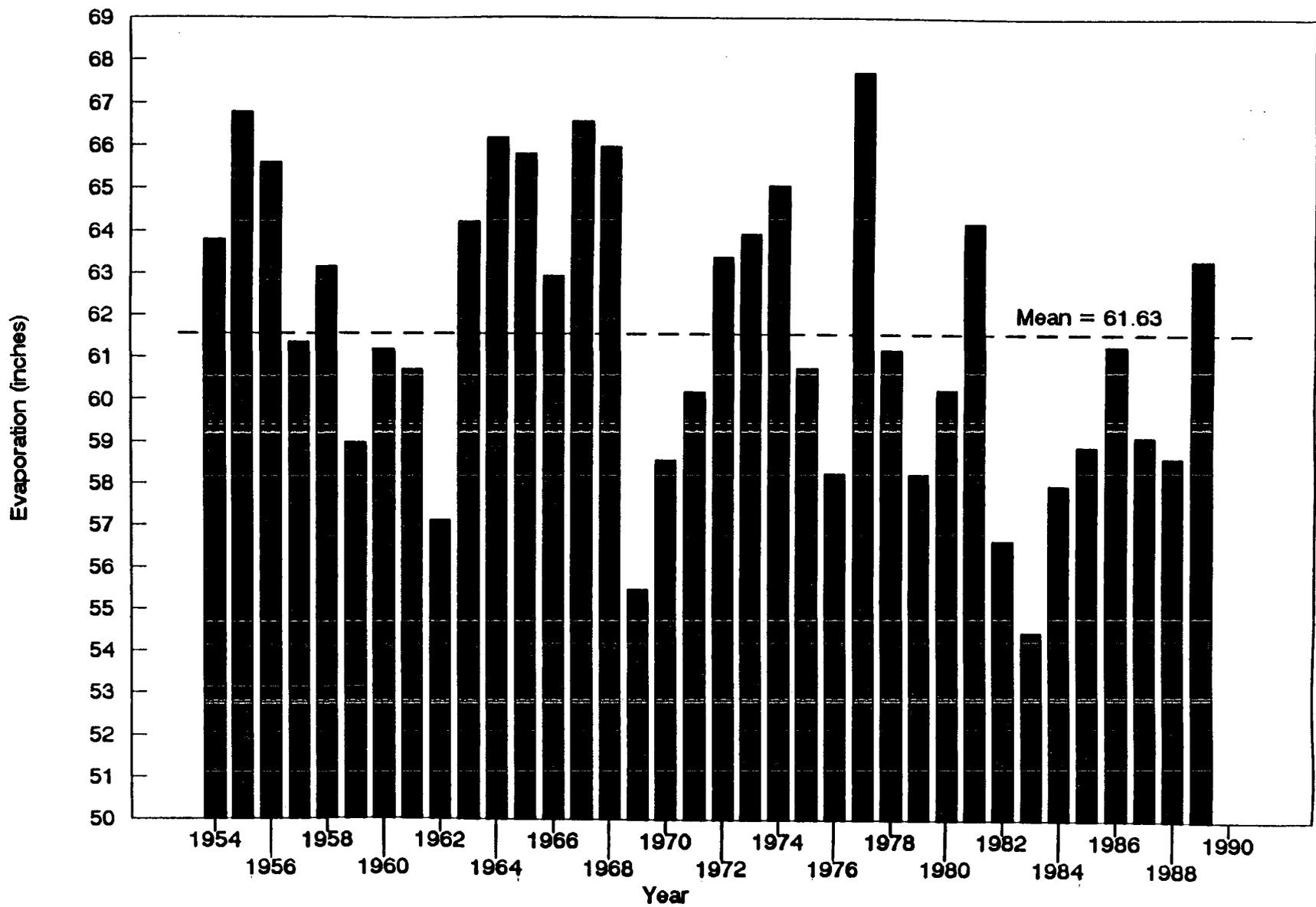


Figure 2-6. Annual Pan Evaporation at Gainesville for 1954-1989

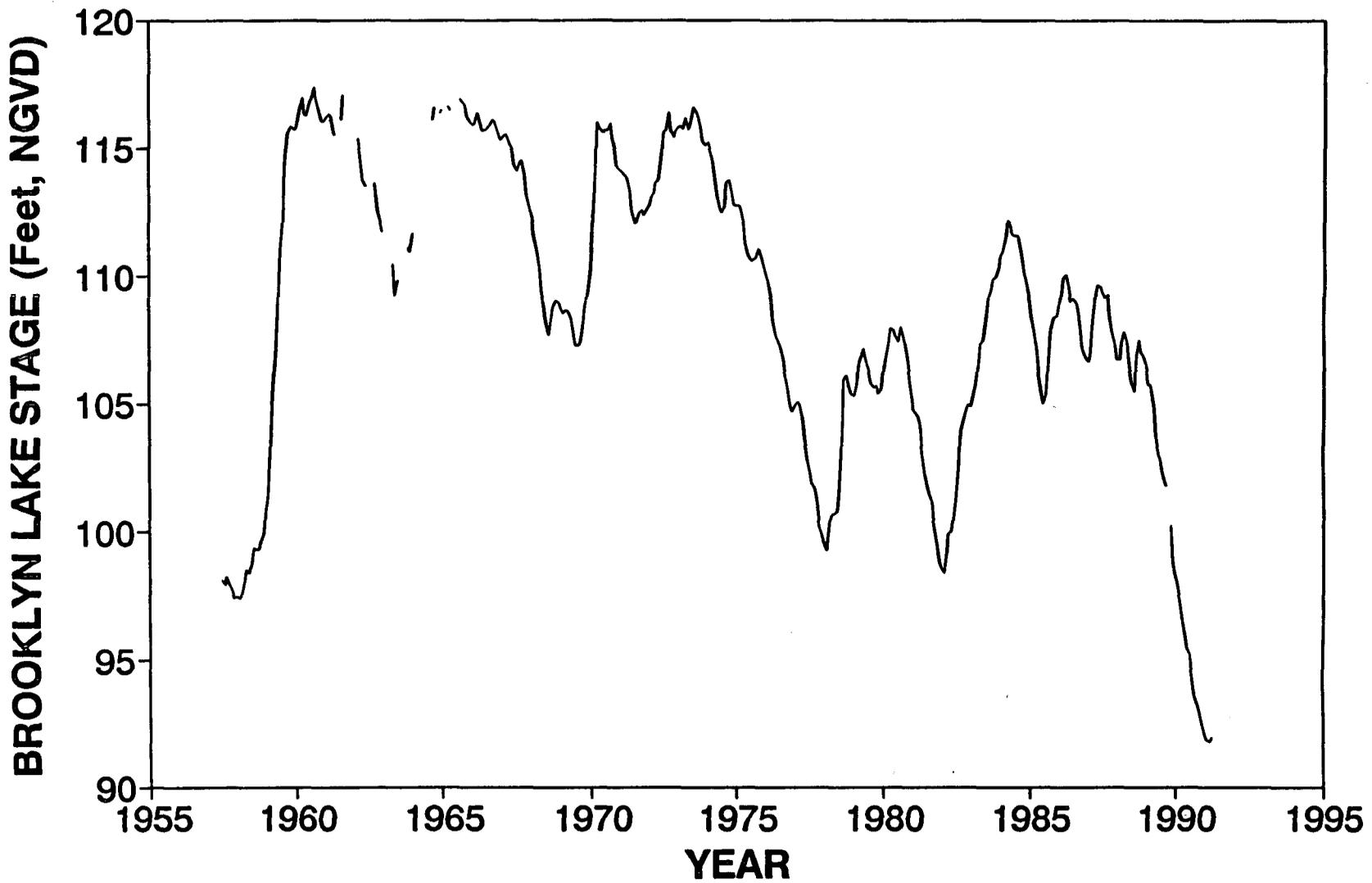


Figure 2-7. Brooklyn Lake Stage for 1957-1991

of 1959, after 2 1/2 years of excessive rainfall, the lake had filled, and water began flowing again from the outlet to Keystone Lake.

Many other lakes in the Keystone Heights area near Brooklyn Lake also declined to low stages as a result of the drought (Clark et al., 1962; Pride and Crooks, 1962). At nearby Lake Geneva, investigation of part of the exposed lake bottom during the drought of 1954-1956 revealed pine stumps as much as 9 inches in diameter standing in water 1 foot deep (Clark et al., 1962), indicating that the stage in Lake Geneva had been even lower at some time in the unrecorded past for a sufficient length of time to permit the growth of pine trees. Presumably, the stage in Brooklyn Lake also has experienced similar long-lasting declines in the unrecorded past.

According to Clark et al. (1962), a major cause of the low lake levels at Brooklyn Lake and other lakes in the vicinity was the rainfall deficiency during the 1954-1956 period. They concluded that the "... low lake levels will not be permanent, although they may recur."

2.6.2 Departure from Mean Rainfall and Brooklyn Lake Stage

A comparison of the cumulative departure from mean rainfall at Gainesville with the Brooklyn Lake stage (Figures 2-5 and 2-7) indicates a general correlation between periods of low rainfall and lowered stages in Brooklyn Lake. For example, the periods of below average rainfall in 1954-1956; 1961-1963, 1976-1978, and 1980-1981 were followed by lowered lake stages in 1957-1958, 1963, 1978, and 1982, respectively. The lowered lake stage in 1968-1969 may be an exception to this general relation, but even in that period the rainfall deficiency was 1.21 inches in 1968. Also, there appears to a similar relation to below average rainfall in 1984-1985, 1987, and 1989-1990 and lowered lake stages in 1985, 1987, and 1991-1992, respectively. Overall, this qualitative but clearly observable relation suggests that rainfall deficiencies that occur for several years are a major factor affecting the stage in Brooklyn Lake.

2.6.3 Double-Mass Curve for Rainfall and Lake Stage

A double-mass curve is a graph that plots the cumulative values for each of two variables (Butler, 1957). This type of hydrologic plot does not establish that a relation between two parameters necessarily exists, but it can be used to determine if changes in the relation between two related parameters have occurred due to changes in their environment. Cumulative monthly lake-stage elevations for Brooklyn Lake for the period 1965 (when the period of record became continuous) to 1991 were calculated and plotted versus cumulative monthly rainfall at Gainesville for the same period (see Figure 2-8). The double-mass curve does not prove that rainfall and the Brooklyn Lake stage necessarily are related; the relation between lake stage and rainfall and other variables can be inferred from other evidence that includes a comparison of the cumulative departure from mean rainfall and lake stage (Figures 2-5 and 2-7) and the lake-stage simulations described in Chapter 8 that include the interaction of all of the major components of the water budget, not just rainfall. However, the constant slope of the double-mass curve for rainfall and lake stage clearly indicates that the relation between rainfall and the stage of Brooklyn Lake did not change during 1965-1991.

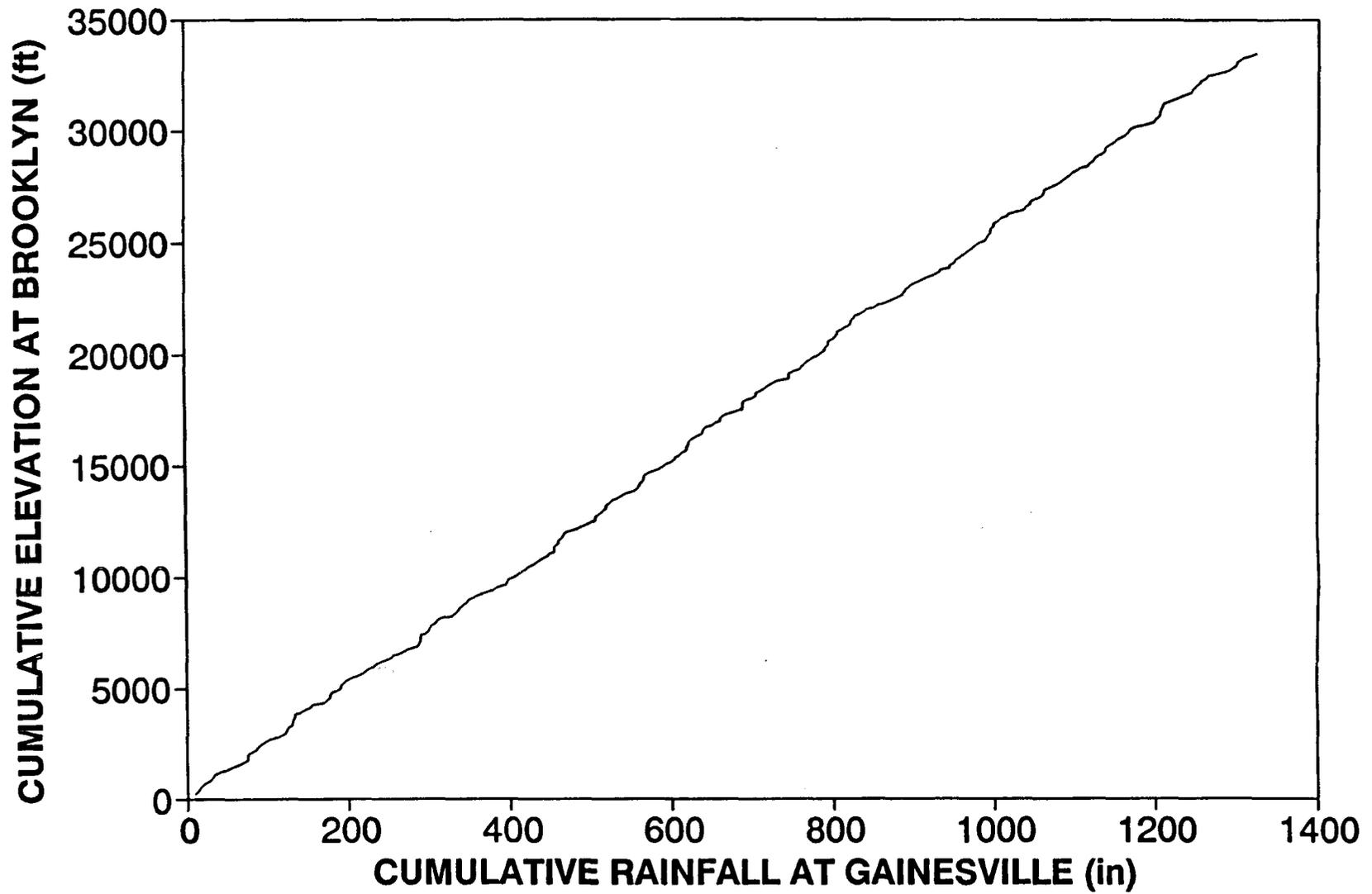


Figure 2-8. Double-Mass Curve for Brooklyn Lake Stage and Gainesville Rainfall for 1965-1991

3.0 GEOLOGY

3.1 Introduction

The geologic units in the UECB can be divided into pre-Hawthorn Tertiary carbonate formations, the Hawthorn Group, and post-Hawthorn deposits (see Table 3-1). The pre-Hawthorn formations are divided into four units that range in age from Paleocene to late Eocene (Miller, 1986). The units from oldest to youngest are the Paleocene Cedar Keys Formation, the early Eocene Oldsmar Formation, the middle Eocene Avon Park Formation, and the late Eocene Ocala Limestone. The Hawthorn Group is of Miocene age and is a very complex formation. It consists of clay, sand, carbonate, and phosphates in heterogeneous patterns and thicknesses throughout (Scott, 1983). The post-Hawthorn deposits range in age from Pliocene to Recent. The formations consist of sand, clay, carbonate, clayey sand, sandy clay, and shell (Durden, 1990). The ages of these units range from 55 to 65 million years before present for the Paleocene Cedar Keys Formation to 11,000 years before present for the Pleistocene and Recent deposits (Batten, 1987) (see Table 3-2).

3.2 Pre-Hawthorn Tertiary Carbonate Formations

3.2.1 Paleocene Series

The Cedar Keys Formation contains the rocks of Paleocene age, which consist predominantly of interbedded dolomite and anhydrite. Extensive anhydrite beds, which are relatively impermeable, occur at the base of the upper third of this formation and are recognized as the base of the Floridan aquifer system (Miller, 1986).

The top of the Cedar Keys Formation slopes downward from west to east in the study area. The elevation of the Cedar Keys Formation ranges from -1,500 ft, NGVD, in western Clay and Putnam Counties to -2,000 ft, NGVD, in eastern St. Johns County. There are no known wells that penetrate the Cedar Keys Formation in the UECB, so its total thickness is unknown (Durden, 1990).

Table 3-1. Geologic Units in the Vicinity of the UECB

Geologic Age	Stratigraphic Unit	Approximate Thickness (feet)	Lithology
Pleistocene and Recent	post-Hawthorn deposits	10-100	Discontinuous beds of loose sand, clayey sand, sandy clay, marl, and shell
Pliocene	post-Hawthorn deposits	10-110	Clay, clayey sand, sandy clay, shell, and limestone
Miocene	Hawthorn Group	100-400	Interbedded clay, quartz, sand, carbonate, phosphate
Late Eocene	Ocala Limestone	200-400	Porous limestone
Middle Eocene	Avon Park Formation	500-1,200	Interbedded limestone and dolomite
Early Eocene	Oldsmar Formation	300-800	Interbedded limestone and dolomite
Paleocene	Cedar Keys Formation	Unknown	Interbedded dolomite and anhydrite

Sources: Bermes et al., 1963; Clark et al., 1964; Fairchild, 1972; Hoenstine and Lane, 1991; Leve, 1966; Miller, 1986; and Scott, 1988.

Table 3-2. Time Before Present of Various Geologic Ages

Geologic Epoch	Time Before Present (Years x 10 ⁶)
Recent Pleistocene	0.011 to 1.5
Pliocene	1.5 to 12
Miocene	12 to 20
Oligocene	20 to 35
Eocene	35 to 55
Paleocene	55 to 65

Source: Batten, 1987.

3.2.2 Eocene Series

Early Eocene Oldsmar Formation. Rocks of early Eocene age occupy the full thickness of the Oldsmar Formation and are entirely contained within it. This unit is composed of interbedded limestone and dolomite. The lower part of the unit contains gypsum and thin beds of anhydrite, and it is usually more extensively dolomitized than the upper part. The dolomite beds within the unit vary greatly in thickness and contain many cavities. The designation of the Oldsmar Formation as a "Formation" rather than "Limestone" is due to the presence of significant amounts of dolomite, anhydrite, and other rocks along with the limestone (Miller, 1986).

Middle Eocene Avon Park Formation. The rocks of middle Eocene age beneath the study area formerly were separated into two limestone units that consisted of the "Lake City Limestone" and the upper "Avon Park Limestone". It is now recognized that the rocks of these units are indistinguishable lithologically and faunally, except locally (Miller, 1986). Because of this, the two units of the middle Eocene age are designated as the "Avon Park Formation". The Avon Park Formation is composed of limestone of highly variable hardness that is interbedded with dolomite. The dolomite beds vary greatly in thickness and occasionally contain cavities and fractures. In many places, the Avon Park Formation is composed almost entirely of dolomite, and because of this, the Avon Park Formation is referred to as a "Formation" rather than a "Limestone" (Miller, 1986).

The Avon Park Formation is less than 500 feet thick in the area of northwestern Clay County. In a southeasterly direction across Clay County, the thickness of the Avon Park Formation increases to about 1,000 feet at the county's southeastern corner. The thickness of the Avon Park Formation in Duval and Nassau counties ranges from 500 to 700 feet in the west to 800 feet or more in the east, while in northern Putnam County, the thickness ranges from 600 feet in the west to 1,000 feet in the east.

The top of the Avon Park Formation slopes downward in a northeasterly direction from an elevation of -350 ft, NGVD, in central Putnam and southern St. Johns counties to -900 ft, NGVD, in northeastern Nassau County. Few irregularities appear on the surface of the Avon Park Formation (Miller, 1986).

Late Eocene Ocala Limestone. The rocks of late Eocene age occupy the full thickness of the Ocala Limestone and are entirely contained within it (Miller, 1986). The Ocala Limestone consists of two parts, an upper unit and lower unit. The lower unit consists of fine-grained limestone that is of variable hardness and contains an abundance of marine fossils. In places, the lower unit contains variable amounts of dolomite. The upper unit is a soft, porous coquina composed of shells and other marine fossils that are loosely bound into a limestone matrix (Miller, 1986).

The top of the Ocala Limestone is a very irregular surface. These irregularities are due primarily to the dissolution of carbonate rocks by contact with groundwater. As a result, cavities and even large caverns have been observed within the carbonate units (Schultz and Cleaver, 1955). The dissolution of the limestone has greatly enhanced the primary porosity of the unit, making it among the most permeable rock units in the Floridan aquifer system (Miller, 1986).

The Ocala Limestone is approximately 200 feet thick in the area of northern Putnam and central Clay counties, and its thickness increases at a fairly constant rate in a northeasterly direction. In the area of eastern Nassau and Duval counties, the Ocala Limestone is approximately 400 feet thick. Its thickness ranges from 200 to 300 feet in St. Johns County. The surface of the Ocala Limestone is at an elevation of about +25 ft, NGVD, in the southwestern part of the UECB, and its elevation decreases from west to east. In the eastern part of the UECB, the elevation of the top of the Ocala Limestone is approximately -100 ft, NGVD (see Figure 3-1).

3.3 Hawthorn Group

The Hawthorn Group of Miocene age consists of widely varying mixtures of clay, quartz, sand, carbonate, and phosphate (Scott, 1983 and 1988). It is a very heterogenous group that consists of many discontinuous lenses of its components. The Hawthorn Group in north Florida can be subdivided into four separate units. From oldest to youngest, these are the Penney Farms Formation, Marks Head Formation, Coosawhatchie Formation, and Statenville Formation (see Figure 3-2). The Penney Farms Formation can be divided into two informal members referred to simply as upper and lower members. The Coosawhatchie Formation also has upper and lower informal members and the Charlton Member (Scott, 1988). The separate units of the Hawthorn Group in north Florida are recognizable in cores but are very hard to identify due to their highly variable nature. It is recommended that these sediments be referred to as the Hawthorn Group undifferentiated when using well cuttings in north Florida (Scott, 1988).

The surface elevation of the Hawthorn Group ranges from 50 to 100 ft, NGVD, in the area of western Clay and northwestern Putnam counties, and it decreases to between -50 and -100 ft, NGVD, in the area of eastern Clay and northeastern Putnam counties (Scott, 1988). The thickness of Hawthorn Group generally increases from south to north in Clay and Putnam counties. The thickness is between 100 and 200 feet in central and northern Putnam County, and it is between 200 and 300 feet in Clay County.

3.3.1 Penney Farms Formation

The Penney Farms Formation is a lithostratigraphic name for the predominantly subsurface basal unit of the Hawthorn Group in north and central Florida. The two unnamed members that compose the Penney Farms Formation are distinguished from each other based on the abundance of carbonate beds and thin variability (see Figure 3-3). In the lower member, carbonates predominate with sands and clays interbedded in varying proportions. The upper member is a predominantly

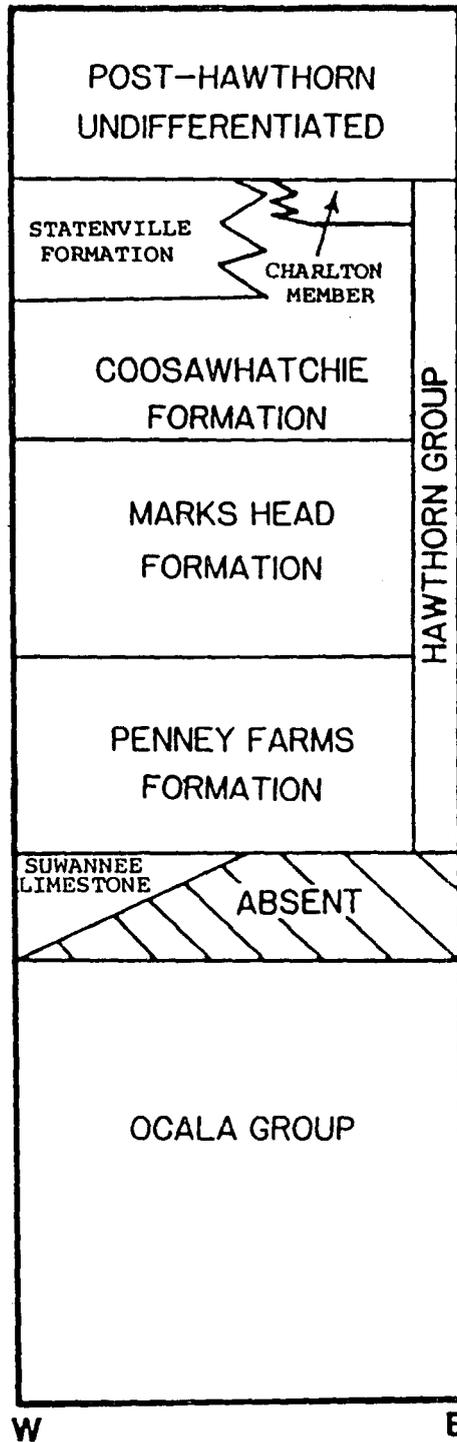


Figure 3-2. Lithostratigraphic Units of the Hawthorn Group in North Florida (Source: Scott, 1988)

siliciclastic unit with interbedded carbonate beds (Scott, 1988). The top of the lower member is placed where carbonate beds become dominant over the siliciclastic beds. Sometimes the siliciclastic beds are abundant enough in the lower member to obscure the separation of the upper and lower members of the Penney Farms Formation. In this case, separation within the unit is impossible (Scott, 1988).

Limestone in the basal portion of the Penney Farms Formation occurs sporadically. When it does occur, it is generally dolomitic, quartz sandy, and phosphatic. The quartz sands are fine to coarse grained, moderately to poorly sorted, variably phosphatic, dolomitic, silty, and clayey. The phosphate grain content varies considerably, sometimes to the point of being classified as phosphorite sand (50 percent or greater phosphate grains). However, the phosphate grain content averages between five and ten percent (Scott, 1988). Clay beds in the Penney Farms Formation are typically quartz sandy, phosphatic, silty and dolomitic. The proportions of the accessory minerals vary from nearly zero to more than 50 percent. Nearly pure clay beds are uncommon. Dolomite is very common in the clays, often being the most abundant accessory mineral (Scott, 1988).

3.3.2 Marks Head Formation

The Marks Head Formation in Florida consists of interbedded sands, clays, and dolostones throughout its extent. Also, carbonate beds are found to be more common in Florida than in Georgia; the proportion of carbonate, both as a rock type and an accessory (matrix) mineral, gradually increases into Florida. This unit, defined by Miller (1978) as being "complexly interbedded shell limestone, clay, clayey sand, and fine grained sandstone", is the most lithologically variable formation of the Hawthorn Group in north Florida.

Since limestone is uncommon (it does occur sporadically) in the Marks Head Formation, the carbonate portion of the unit is typically dolostone. The dolostone of the Marks Head is generally phosphatic and clayey quartz sandy. The

dolostones vary in induration from poorly consolidated to well indurated. The induration varies in inverse relationship to the amount of clay present within the sediment. Phosphate grains normally comprise up to five percent; however, occasional beds may contain significantly higher percentages. Quartz sand content varies from less than 5 percent to greater than 50 percent where it grades into a dolomite cemented quartz sand (Scott, 1988). The quartz sands from the Marks Head Formation are generally fine to medium grained (occasionally coarse grained), dolomitic, silty, clayey, and phosphatic. The dolomite, silt, and clay contents are highly variable, and the quartz sands are gradational with the other lithologies. Phosphate sand is usually present in amounts ranging from one to five percent; however, phosphate grain percentages may range considerably higher in thin and localized beds (Scott, 1988).

The occurrence of limestone within the Marks Head Formation in Florida is quite rare. The majority of the "limestone" reported from this part of the section by other workers is actually dolostone. The limestone that does occur is characteristically dolomitic quartz that is sandy, phosphatic, clayey, and fine grained (Scott, 1988).

Clay beds are quite common in the Marks Head Formation, occasionally comprising a large portion of the section. The clays are sandy, silty, dolomitic, and phosphatic quartz. As is the case in the Penney Farms Formation, the Marks Head clays contain highly variable percentages of accessory minerals; relatively pure clays do occur but are not common (Scott, 1988).

3.3.3 Coosawhatchie Formation

The Coosawhatchie Formation is the upper unit of the Hawthorn Group in much of north Florida (Scott, 1988). It consists of three members: informal lower and upper members and the Charlton Member, as defined by Huddlestun (in press).

The Coosawhatchie Formation in Florida consists of quartz sands, dolostones, and clays. Characteristically, sandy to very sandy dolostone is the most

common lithology in the upper informal member, where it is interbedded with quartz sands and clays. In the lower informal member, the quartz sands and clays predominate with interbedded dolostones.

The quartz sands are dolomitic, clayey, and phosphatic. The sand grains are fine to medium grained, poorly to moderately sorted, and subangular to subrounded. The proportions of accessory materials vary greatly. The sands grade into the dolostones and clays in many instances. The phosphate grain content is quite variable ranging from a trace to more than 20 percent. Clay content varies from less than 5 percent to greater than 30 percent (Scott, 1988).

The dolostones of the Coosawhatchie Formation are sandy, clayey, and phosphatic quartz. The percentages of quartz sand and clay vary widely and may be as much as 50 percent in transition zones. Phosphate grain content is quite variable also but is generally less than ten percent. The dolostones are micro- to fine crystalline, poorly to moderately indurated, and occasionally contain molds of fossils. The clays in the Coosawhatchie Formation are typically sandy, silty, dolomitic, and phosphatic quartz. The phosphate grains are usually well rounded and in the same size range as the associated quartz sands. Coarser phosphate sands and phosphate pebbles or rubble are not common but are present (Scott, 1988).

The third member of the Coosawhatchie Formation is the Charlton Member. The Charlton Member characteristically consists of interbedded carbonates and clays. It is less sandy than the upper member of the Coosawhatchie Formation, into which it grades laterally and vertically, and typically it contains less sand and phosphate grains. It contains a clay component that is often very conspicuous in cores (Scott, 1988).

The carbonate beds of the Charlton Member are often dolostones but range into limestone. They are slightly sandy, slightly phosphatic to non-phosphatic and clayey. They often contain abundant molds of fossil mollusks. The lime-

stones are characteristically very fine grained, slightly sandy, clayey, and poorly to moderately indurated. The clays are dolomitic to calcareous, with poor to moderate induration and silty (Scott, 1988).

The Charlton Member, like the Statenville Formation, only covers part of the Coosawhatchie Formation (see Figure 3-4). The Charlton Member both overlies and interfingers laterally with the upper informal member of the Coosawhatchie Formation. The Charlton Member is overlain disconformably by the sediments discussed as overlying the Coosawhatchie Formation.

3.3.4 Statenville Formation

The Statenville Formation consists of interbedded phosphatic sands, dolostones, and clays at the top of the Hawthorn Group (Huddleston, in press). The Statenville Formation extends southward into Hamilton and Columbia counties of Florida northwest of Clay County beyond the study area of this investigation.

3.4 Post-Hawthorn Deposits

The exact ages of the post-Hawthorn deposits are not generally agreed upon (Durden, 1990). Some geologists suggest that the deposits range in age from Pliocene (or late Miocene) to Pleistocene and Recent (e.g., Bermes et al., 1963, and Leve, 1966), while other more recent studies (e.g., Miller, 1986; Scott, 1988; and Hoenstine and Lane, 1991) suggest that the units range in age from Pliocene to Holocene. A thesis by Kane (1984) on the origin of the Grandin Sands in western Putnam County includes an in-depth description of the Post-Hawthorn deposits. The thickness of the post-Hawthorn deposits ranges from less than 20 feet to more than 110 feet in the UECB (personal communication, Michael Huff and Douglas A. Munch, SJRWMD, May 1992). In two boreholes drilled along Trail Ridge, north of Keystone Heights, the thickness of the post-Hawthorn deposits was 49 and 84 feet (Pirkle et al., 1970).

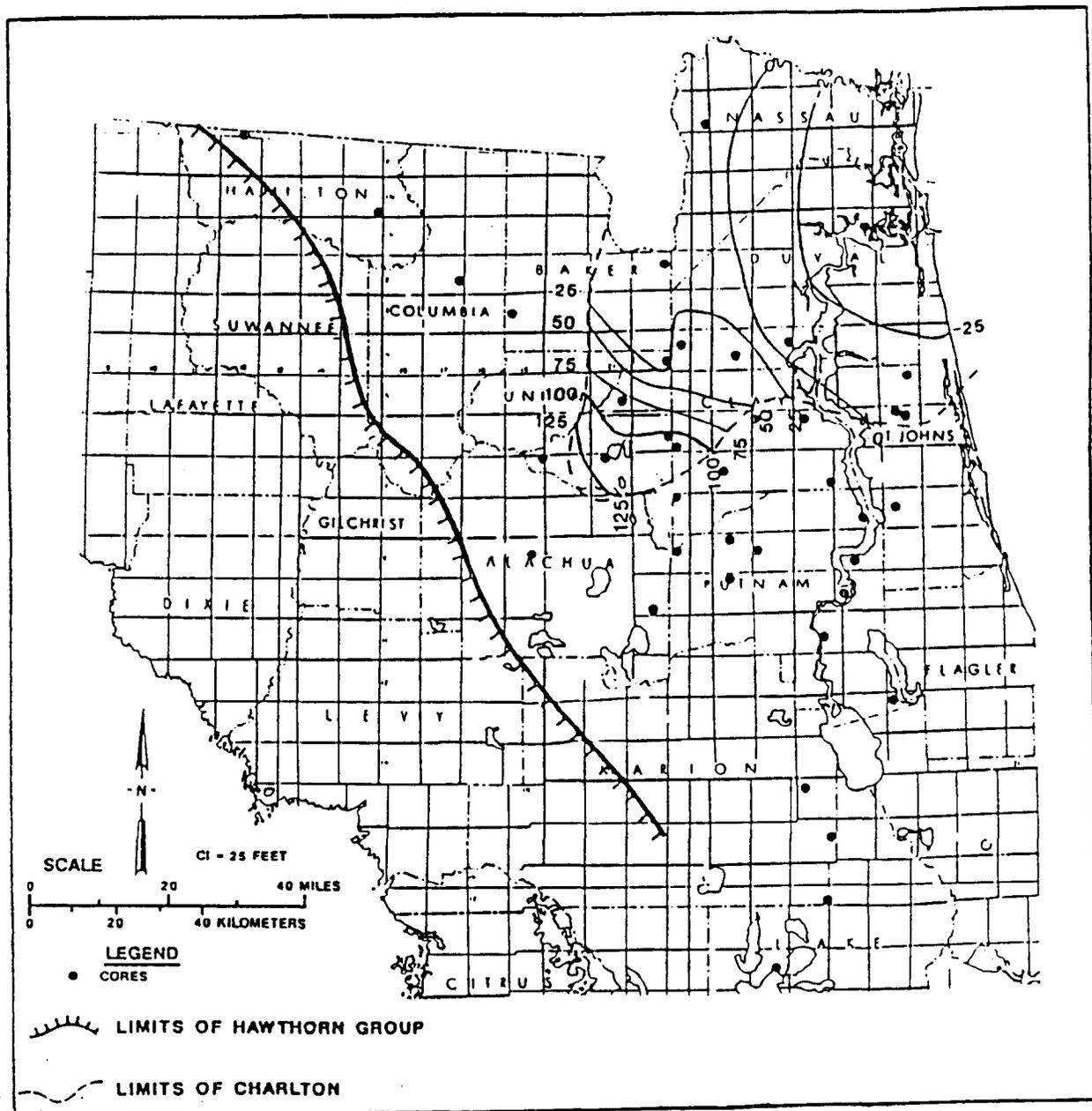


Figure 3-4. Top of the Charlton Member in North Florida
(Source: Scott, 1988)

3.4.1 Pliocene Deposits

The Pliocene deposits are differentiated from the Hawthorn Group by the absence or near absence of phosphate within them (Leve, 1966). The deposits are composed of interbedded clay and clayey sand, fine to medium grained, well sorted sand, shell, and soft limestone.

The transition between the underlying Hawthorn Group into the overlying Pliocene deposits is evident in gamma-ray logs, because the gamma-ray activity in the Hawthorn Group is generally significantly higher than the activity in the underlying and overlying formations (Scott, 1988). The transition usually is marked by an unconformity consisting of coarse sands and phosphates. No distinct line of transition exists between the Pliocene and the overlying Pleistocene and Recent deposits (Leve, 1966).

3.4.2 Pleistocene and Recent Deposits

Pleistocene and Recent deposits cover the study area. These deposits generally contain fine to coarse grained, loose sand, clayey sand, sandy clay, marl, shell, and clay. Beds within the Pleistocene and Recent deposits vary in lithology and texture over short distances, both horizontally and vertically (Bermes et al., 1963; and Fairchild, 1972).

4.0 GROUNDWATER HYDROLOGY

4.1 Introduction

The surficial, intermediate, and Floridan aquifer systems (Southeastern Geological Society, 1986) occur in the UECB (see Table 4-1). The surficial aquifer system is the uppermost of the three aquifers, and it is under water-table conditions. The intermediate aquifer system is an artesian aquifer in the Hawthorn Group bounded by two (upper and lower) confining units in the Hawthorn Group. The Floridan aquifer system is the deepest of the three aquifers. It is under artesian conditions within the study area, and it is separated from the intermediate aquifer system by the lower confining unit at the base of the Hawthorn Group. The Floridan aquifer system is comprised of two zones. A low permeability layer of limestone and dolomite separates the two zones into the Upper Floridan aquifer and the Lower Floridan aquifer. The bottom of the Floridan aquifer system is bounded by beds of low permeability anhydrite in the Cedar Key Formation, which serves as the lower confining unit of the Floridan aquifer system (Miller, 1986).

4.2 Surficial Aquifer System

The surficial aquifer system is contained in the sand, clayey sand, and shell of the Pliocene, Pleistocene, and Recent deposits (Kane, 1984; and Clark et al., 1964)(see Table 4-1). This aquifer locally is a water-table aquifer, and its potentiometric surface generally follows the local topography (Miller, 1986). In the UECB, the water-surface elevations of most of the area's lakes coincide with the potentiometric surface of the surficial aquifer. Groundwater levels in this aquifer tend to fluctuate rapidly in response to recharge from precipitation. The thickness of the surficial aquifer system ranges from 20 to 110 feet or more.

Table 4-1. Hydrogeologic Units in the UECB

Geologic Age	Geologic Unit	Hydrologic Unit	Description
Pleistocene and Recent	Pleistocene and Recent deposits	Surficial Aquifer System	Consists of sands, clayey sand, and shell. Thickness ranges from 20 to more than 110 feet.
Pliocene	Pliocene deposits		
Miocene	Hawthorn Group	Upper Confining Unit	Consists of clay, marl, and discontinuous beds of sand, shell, dolomite, and limestone. Thickness ranges from 150 to 450 feet.
		Intermediate Aquifer System	
		Lower Confining Unit	
Late Eocene	Ocala Limestone	Upper Floridan Aquifer	Consists mainly of limestone of high primary and secondary porosity. Thickness ranges from 300 to 700 feet.
Middle Eocene	Avon Park Formation	Middle Confining Unit	Consists of leaky, low permeability limestone and dolomite. Thickness ranges from 50 to 200 feet.
Early Eocene	Oldsmar Formation	Lower Floridan Aquifer	Consists primarily of interbedded limestone and dolomite. Thickness ranges from 1,100 to 1,500 feet.
Paleocene	Cedar Keys Formation	Lower Confining Unit	Consists of low permeability anhydrite beds.

Sources: Clark et al., 1964; Hoenstine and Lane, 1991; Miller, 1986; Scott, 1988; and Southeastern Geological Society, 1986.

4.3 Intermediate Aquifer System

The intermediate aquifer system is contained in the discontinuous limestone, dolomite, shell, and sand beds in the Hawthorn Group (see Table 4-1). The separation between the surficial aquifer and intermediate aquifer in the UECB is due to the upper confining unit that exists at the top of the Hawthorn Group. The degree of hydraulic connection between the surficial aquifer and the intermediate aquifer varies throughout the region (Clark et al., 1964). In some locations in the UECB, the confining unit is as much as 25 feet thick, and in other parts it is nearly absent. The base of the intermediate aquifer system is connected hydraulically with the Upper Floridan aquifer by means of vertical leakage through the lower confining unit and due to breaches in the lower confining unit (Clark et al., 1964).

The lower confining unit of the Hawthorn Group consists of deposits of clay, sandy clay, clayey sand, marl, limestone, and dolomite of the Hawthorn Group. The effectiveness of the lower confining unit depends largely on its thickness, its local lithology, which varies greatly over short distances within the study area, and the presence or absence of breaches due to karst features in the underlying limestone units of the Upper Floridan aquifer. The areas that are thick and have high clay contents have much less leakage than areas that are thin with low clay content (Miller, 1986). In the UECB, the thickness of the lower confining unit ranges from 4 to 66 feet (personal communication, Michael Huff and Douglas A. Munch, SJRWMD, May 1992).

4.4 Floridan Aquifer System

The Floridan aquifer system in the UECB consists of the late Eocene Ocala Limestone, the middle Eocene Avon Park Formation, the early Eocene Oldsmar Formation, and the Paleocene Cedar Keys Formation (Miller, 1986)(see Table 4-1). The Floridan aquifer system can be divided into four parts, i.e., an upper zone of high permeability, a middle confining zone of low permeability, a lower zone of

low-to-high permeability, and the lower confining unit. The boundaries of these hydrologic units do not coincide necessarily with the boundaries of time stratigraphic units or rock types, because the differentiation of the units is based on vertical variations in permeability (Miller, 1986).

4.4.1 Upper Floridan Aquifer

The Upper Floridan aquifer is a zone of high permeability contained within the Ocala Limestone and the upper third of the Avon Park Formation. The high permeability is attributed to the combination of high primary and secondary porosity of the limestone that composes this unit (Miller, 1986). The high secondary porosity has resulted from the formation of dissolution cavities within the limestone of the Upper Floridan aquifer (Miller, 1986). The thickness of the Upper Floridan aquifer generally increases from west to east within the study area.

4.4.2 Middle Confining Unit

The middle confining unit is composed mainly of beds of limestone and dolomite that are of lower permeability than those beds above and below it. The middle confining unit extends approximately from the middle to the upper third of the Avon Park Formation, although at some locations it extends upward to the base of the Ocala Limestone (Durdan, 1990). The thickness of the middle confining unit ranges from about 50 feet in southern Clay County to as much as 200 feet in the area of northern Duval County (Durdan, 1990).

4.4.3 Lower Floridan Aquifer

Little is known about the hydraulic characteristics of the Lower Floridan aquifer because few wells have penetrated to its depths. The Lower Floridan aquifer is contained within the lower half of the Avon Park Formation and upper third of the Cedar Keys Formation. The permeability of rocks in the Lower Floridan aquifer is much less than that of rocks in the Upper Floridan aquifer (Miller, 1986). There is one zone in the lower part of the Lower Floridan aquifer

known as the Fernandina permeable zone that has a relatively high permeability. The Fernandina permeable zone is usually found in the Cedar Keys Formation and is separated from the rest of the Lower Floridan aquifer by a local confining unit (Miller, 1986).

The thickness of the Lower Floridan aquifer ranges from about 1,100 to 1,200 feet in northern Putnam County. The elevation of the top of the Lower Floridan aquifer generally follows the elevation of the stratigraphic unit in which it is contained (Miller, 1986).

4.4.4 Lower Confining Unit

The lower confining unit of the Floridan aquifer system is composed of thick anhydrite beds at the base of the upper third of the Cedar Keys Formation. The hydraulic conductivity of these beds is very low compared to the hydraulic conductivity of the carbonate rocks that are above them (Miller, 1986). This unit is considered to be the bottom of the Floridan aquifer system.

4.5 Recharge and Discharge

4.5.1 Surficial Aquifer System

Recharge to the surficial aquifer system occurs by means of precipitation and by discharge from some of the lakes in the area. Precipitation is the primary source of recharge, but some of the lakes also contribute recharge to the surficial aquifer in times of little or no precipitation. During these dry periods, groundwater levels in the local aquifers drop below the lake elevations in some parts of the area, allowing water from some of the lakes to recharge the surficial aquifer system.

Discharge from the surficial aquifer takes place in the form of vertically downward leakage into the intermediate aquifer and by means of lateral discharge into area lakes. Other discharge occurs via evapotranspiration and pumping from domestic wells.

4.5.2 Intermediate Aquifer System

Recharge to the intermediate aquifer system occurs mainly from the overlying surficial aquifer. This occurs by means of leakage through the upper confining unit of the Hawthorn Group and where the confining unit is breached or absent. Recharge also occurs from lakes that are perched directly on the upper confining unit of the Hawthorn Group. This recharge occurs through the confining unit and also where cavities in the Hawthorn Group have formed direct hydraulic connections between the lakes and the intermediate aquifer.

Groundwater flows laterally in the intermediate aquifer system and discharges from the intermediate aquifer in the form of vertically downward leakage into the Floridan aquifer system. This occurs through the lower confining unit in the Hawthorn Group and also where the confining unit has been breached or where cavities in the Upper Floridan aquifer have formed hydraulic connections between the intermediate and Upper Floridan aquifers (Clark et al., 1964). Discharge also occurs via pumping from wells throughout the study area.

4.5.3 Floridan Aquifer System

Recharge to the Floridan aquifer system is derived from the intermediate aquifer system and from lakes and the surficial aquifer system where direct hydraulic connections exist. The recharge from the intermediate aquifer occurs through the lower confining unit of the Hawthorn Group. Also, dissolution cavities in the Upper Floridan aquifer that have collapsed form hydraulic connections to the overlying intermediate aquifer, and they even can form connections completely through the Hawthorn Group into the surficial aquifer system. Recharge to the Floridan aquifer system is directly related overall to rainfall. At a well in nearby Alachua County, water-level changes in the Upper Floridan aquifer occur in response to local rainfall with a lag time of approximately one to two months (Hoenstine and Lane, 1991).

Potentiometric maps prepared by SJRWMD delineate a major groundwater mound in the Upper Floridan aquifer in the western part of the UECB (see Figures 4-1 through 4-4). This mound, or potentiometric high, is centered in the Keystone Heights area. Its presence, along with higher water levels in the surficial and intermediate aquifers (Yobbi and Chappel, 1979), indicates that the lakes and surficial aquifer system are a major source of recharge to the underlying Floridan aquifer system in this area. The elevation of the potentiometric surface is greater than 80 ft, NGVD, in the Keystone Heights area, and it decreases in all directions from the area. Groundwater flow occurs downgradient and radially outward from the center of the area generally eastward and northeastward in the UECB towards the St. Johns River. Discharge also occurs by means of industrial and agricultural pumping in the UECB.

4.6 Decline in Groundwater Levels

The elevation of the groundwater mound in the Keystone Heights area decreased approximately five feet from May 1978 to September 1989 (Motz et al., 1991a) (see Figures 4-1 through 4-4). In May 1978, a relatively large area centered at Keystone Heights was enclosed by the 85-ft contour. In September 1982, two smaller areas were enclosed by the 85-ft contour, and in September 1986 and 1989, no areas were enclosed within the 85-ft contour.

The decline in groundwater levels in the Upper Floridan aquifer is also evident in longer term records for the UECB (Motz et al., 1991a). The Keystone Heights well (C-0120), located on the northwest side of Brooklyn Lake, has a period of record extending from April 1960 to the present with only a few gaps in its record. The maximum elevation in the period of record, 91.38 ft, NGVD, occurred in October 1960, and the level generally has declined ever since, dropping 15.6 ft to the minimum elevation in the period of record, 75.74 ft, NGVD, in January 1991 before a short-term partial recovery began in 1991 (see Figure 4-5). (Note: see Figure 5-3 for location of well C-0120.)

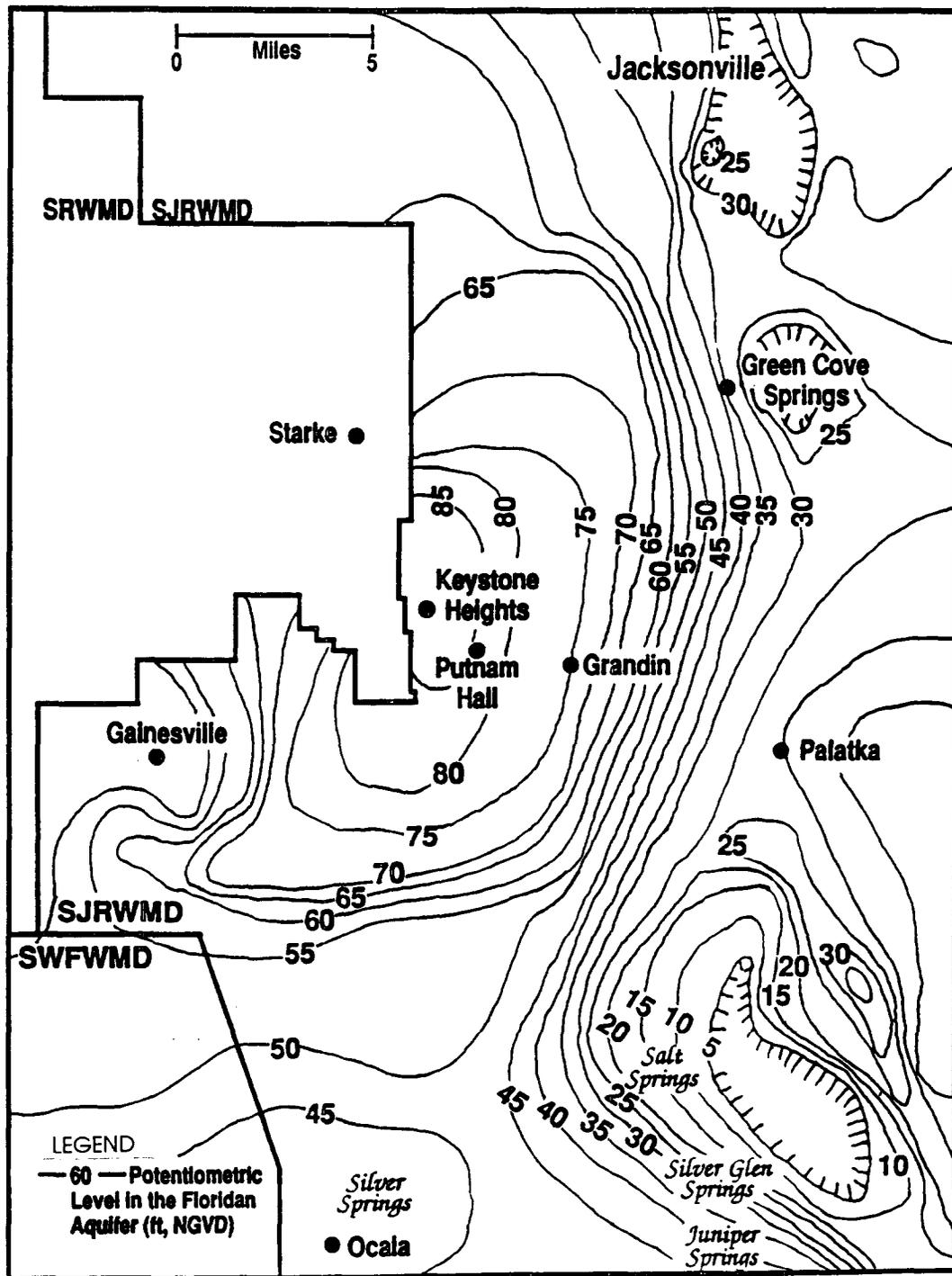


Figure 4-1. May 1978 Potentiometric Map of the Upper Floridan Aquifer in Vicinity of UECB and Surrounding Region (Source: USGS, 1978)

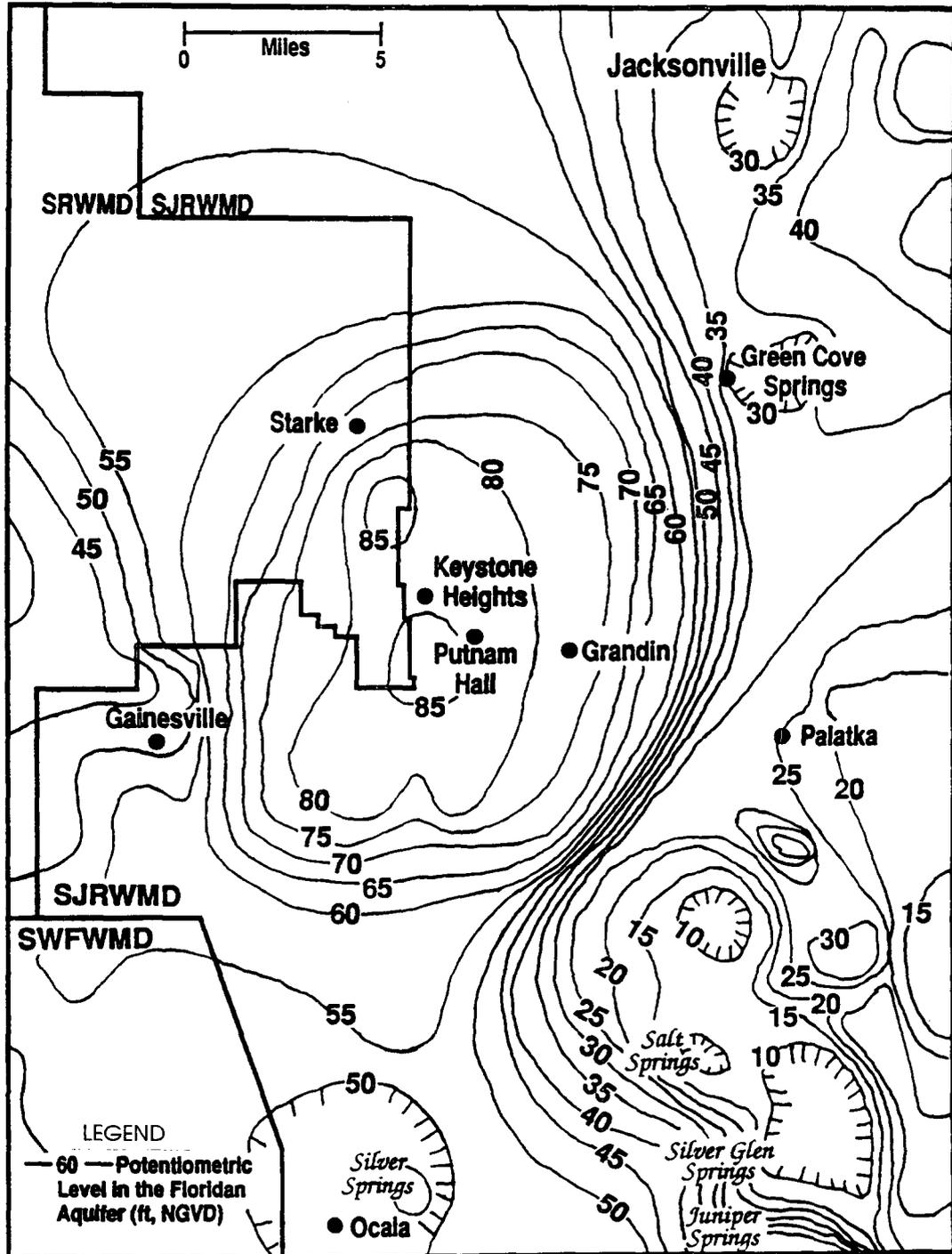


Figure 4-2. September 1982 Potentiometric Map of the Upper Floridan Aquifer in Vicinity of UECB and Surrounding Region (Source: USGS, 1982)

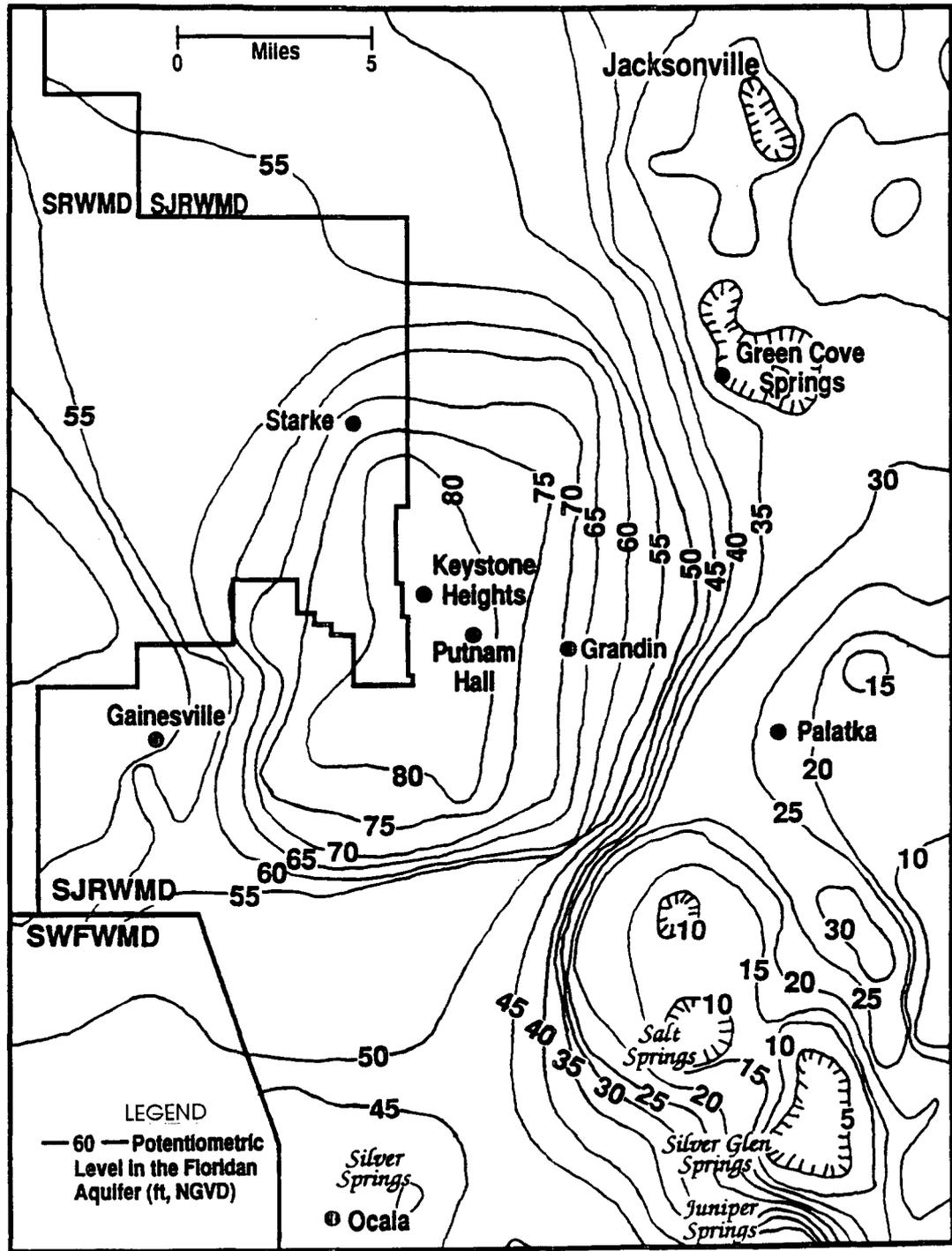


Figure 4-3. September 1986 Potentiometric Map of the Upper Floridan Aquifer in Vicinity of UECB and Surrounding Region (Source: USGS, 1987)

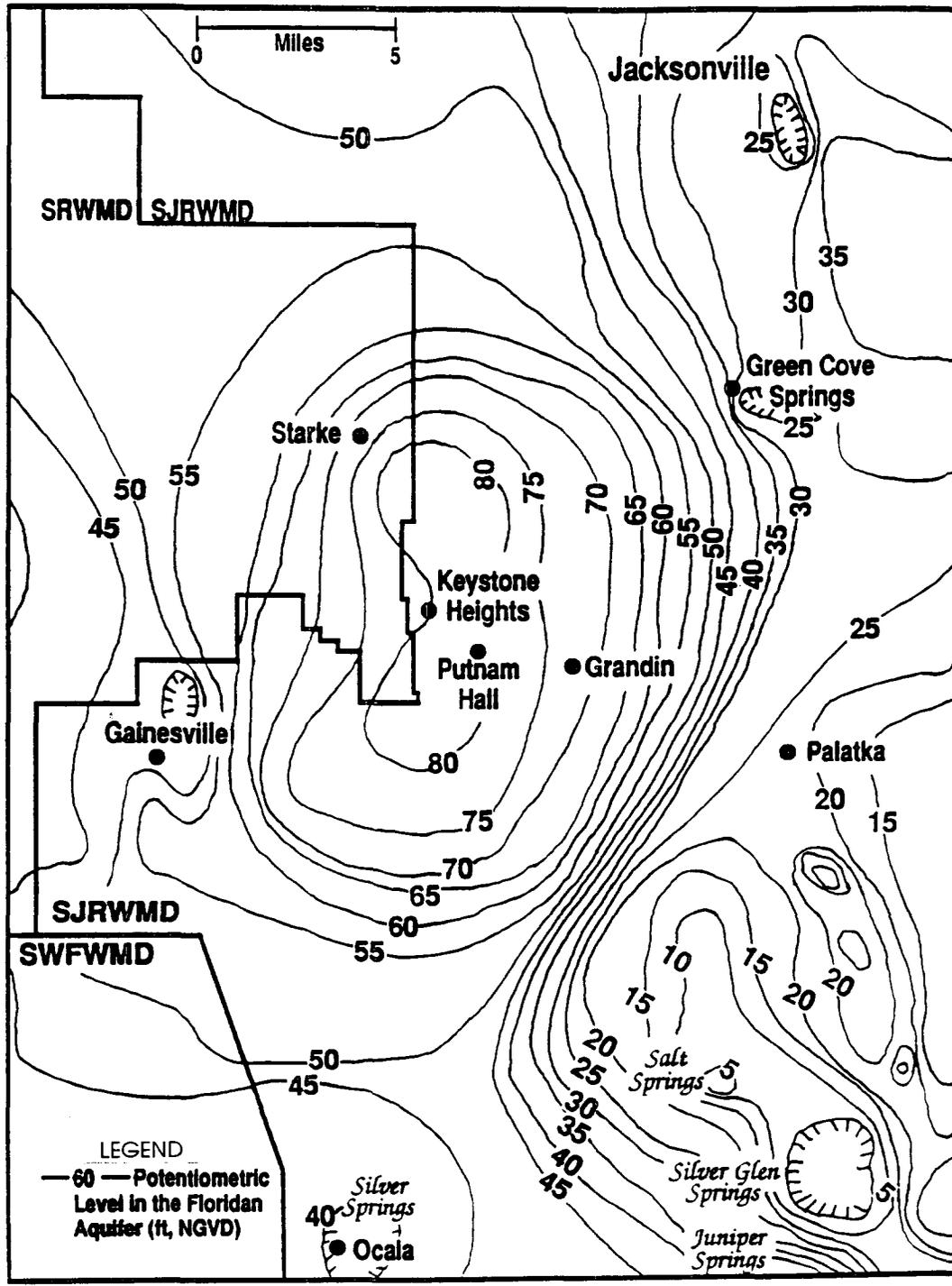


Figure 4-4. September 1989 Potentiometric Map of the Upper Floridan Aquifer in Vicinity of UECB and Surrounding Region (Source: USGS, 1990)

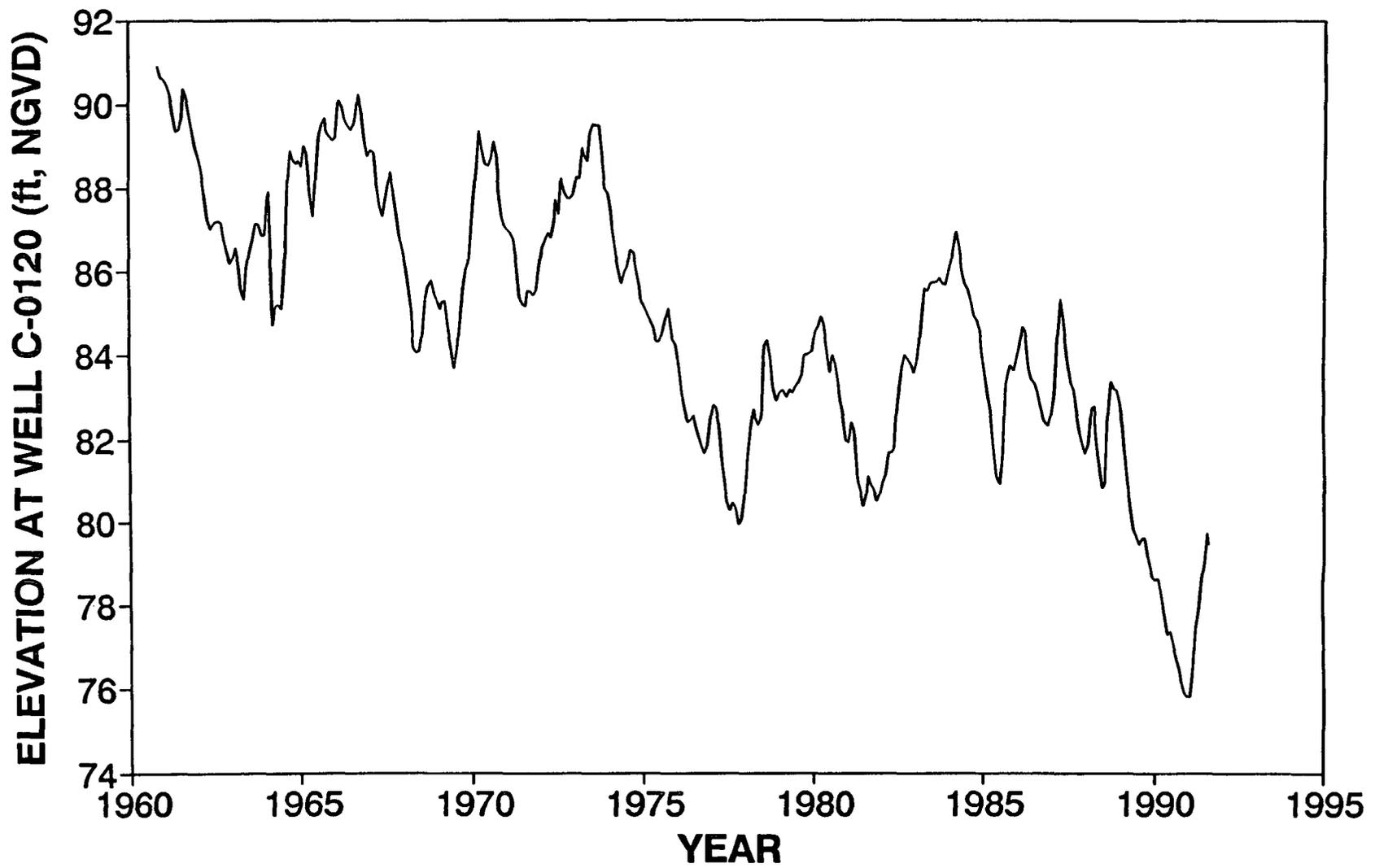


Figure 4-5. Upper Floridan Aquifer Water Level at Keystone Heights (Well C-0120)

The Gold Head State Park well (C-0034) has a shorter but similar period of record, which extends from 1978 to the present with a gap from 1985 to 1989 (see Figure 4-6). The water-level record for this well is very similar to C-0120 (Figure 4-5), with a relative high elevation (81.65 ft, NGVD) occurring in 1984, a low (72.72 ft, NGVD) in 1991, and a short-term partial recovery beginning in 1991 (see Figure 5-3 for location of well C-0034).

A similar downward trend in groundwater levels in the Floridan aquifer system was noted for an earlier period by Bentley (1977). He concluded that the decline in the potentiometric surface in the period 1934-1976 ranged from near zero in southwestern Clay County to 30 ft at Orange Park. The principal center of pumping that affected the groundwater levels in Clay County was the metropolitan Jacksonville area in adjacent Duval County, but withdrawal of water from wells in Orange Park, Green Cove Springs, and the farming area in southwestern St. Johns County also affected groundwater levels in Clay County.

4.7 Double-Mass Curve for Floridan Aquifer and Brooklyn Lake

One of the major factors that affects the stage at Brooklyn Lake is the water level in the Upper Floridan aquifer, as described in Chapters 7 and 8. A double-mass curve for the stage at Brooklyn Lake and the water level in well C-0120 for 1965-1991 was plotted to investigate whether this relation between groundwater and lake levels has remained constant (see Figure 4-7). The constant slope of the double-mass curve for the groundwater and lake levels clearly indicates that the relation between the Upper Floridan aquifer water level at well C-0120 and the stage of Brooklyn Lake did not change during 1965-1991.

4.8 Water Use

Groundwater is pumped from the Upper Floridan aquifer in and near the UECB for public supply, agriculture, and mining (Mutz et al., 1991a) (see Table 4-2). The largest groundwater user is Florida Rock Industries, which operates the Gold Head and Grandin sand mines (see Figure 4-8). The annual permitted

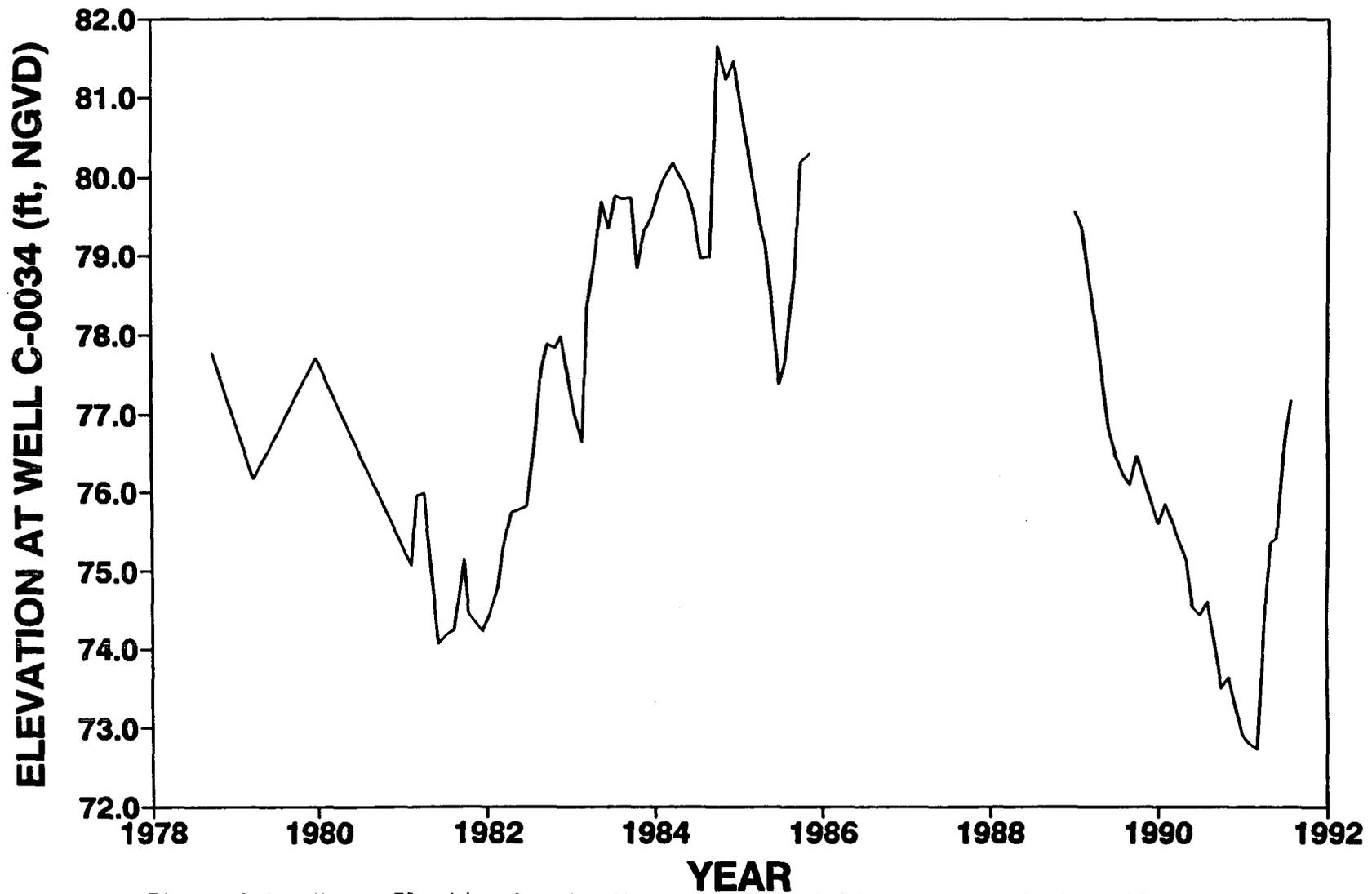


Figure 4-6. Upper Floridan Aquifer Water Level at Gold Head State Park (Well C-0034)

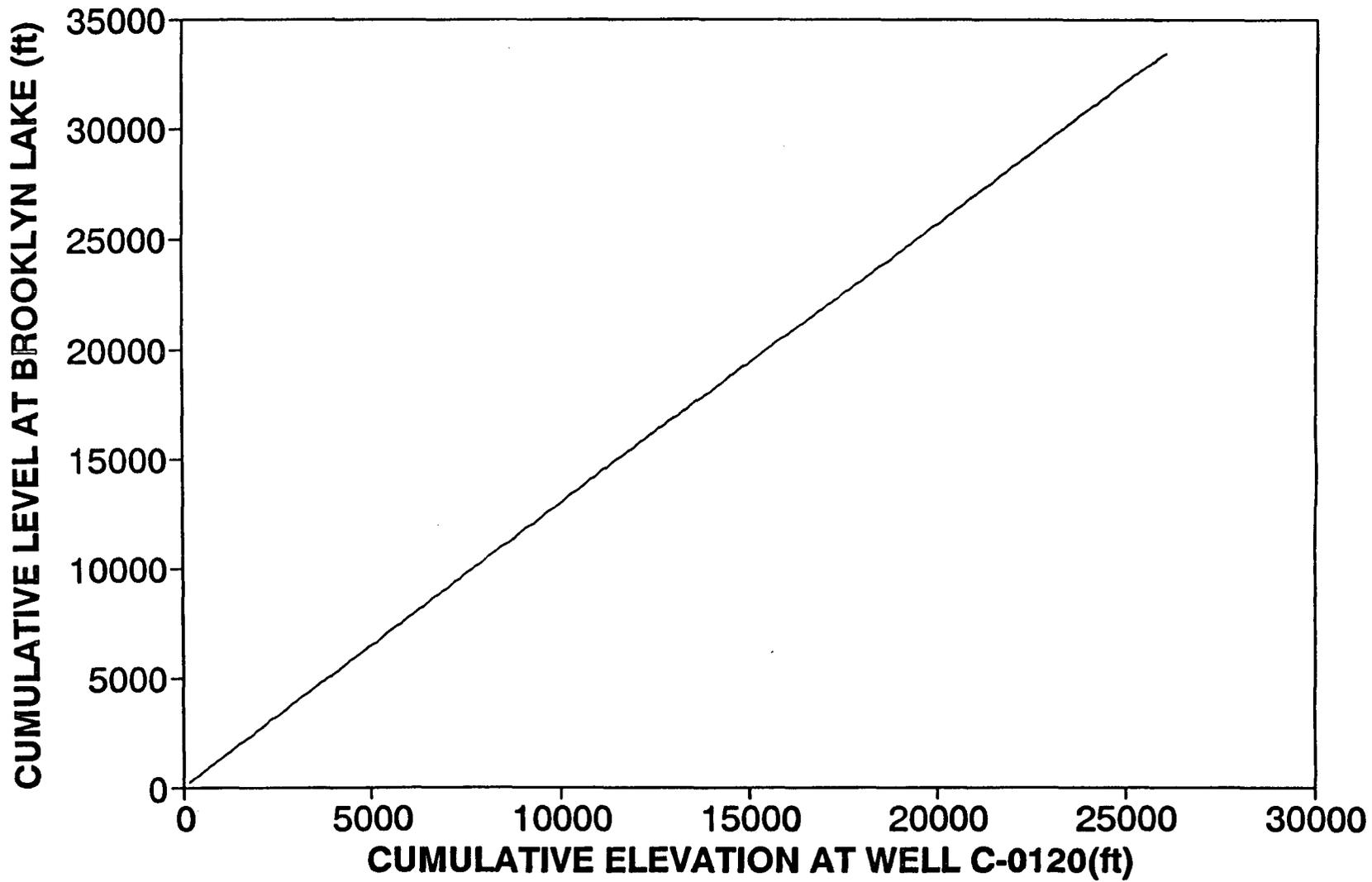


Figure 4-7. Double-Mass Curve for Brooklyn Lake Stage and Upper Floridan Aquifer Water Level at Well C-0120 for 1965-1991

Table 4-2. Major Water Users in the Floridan Aquifer in and Near the Upper Etonia Creek Basin

Owner	County	Pumpage (mgd)	Use
City of Gainesville	Alachua	19.69	Public supply
Southern States Utilities	Bradford	0.038	Public supply
Camp Blanding	Clay	0.494	Public supply
City of Keystone Heights	Clay	0.394	Public supply
E.I. Dupont De Nemours & Co.	Clay	2.341	Mining
Floridan Rock Industries Gold Head Sand Mine	Clay	2.09	Mining
Gold Head State Park	Clay	0.021	Agriculture
City of Jacksonville	Duval	173.06	Public Supply
City of Palatka	Putnam	2.572	Public supply
Edgar Von Scheele R&R Peat Farms	Putnam	0.5	Agriculture
Florida Rock Industries Grandin Sand Mine	Putnam	0.78	Mining
Georgia Pacific Palatka Plant	Putnam	35.362	Industrial use
John W. McInarnay, Jr.	Putnam	0.15	Agriculture
Melrose Water Association	Putnam	0.067	Public supply

Source: Marella, 1990.

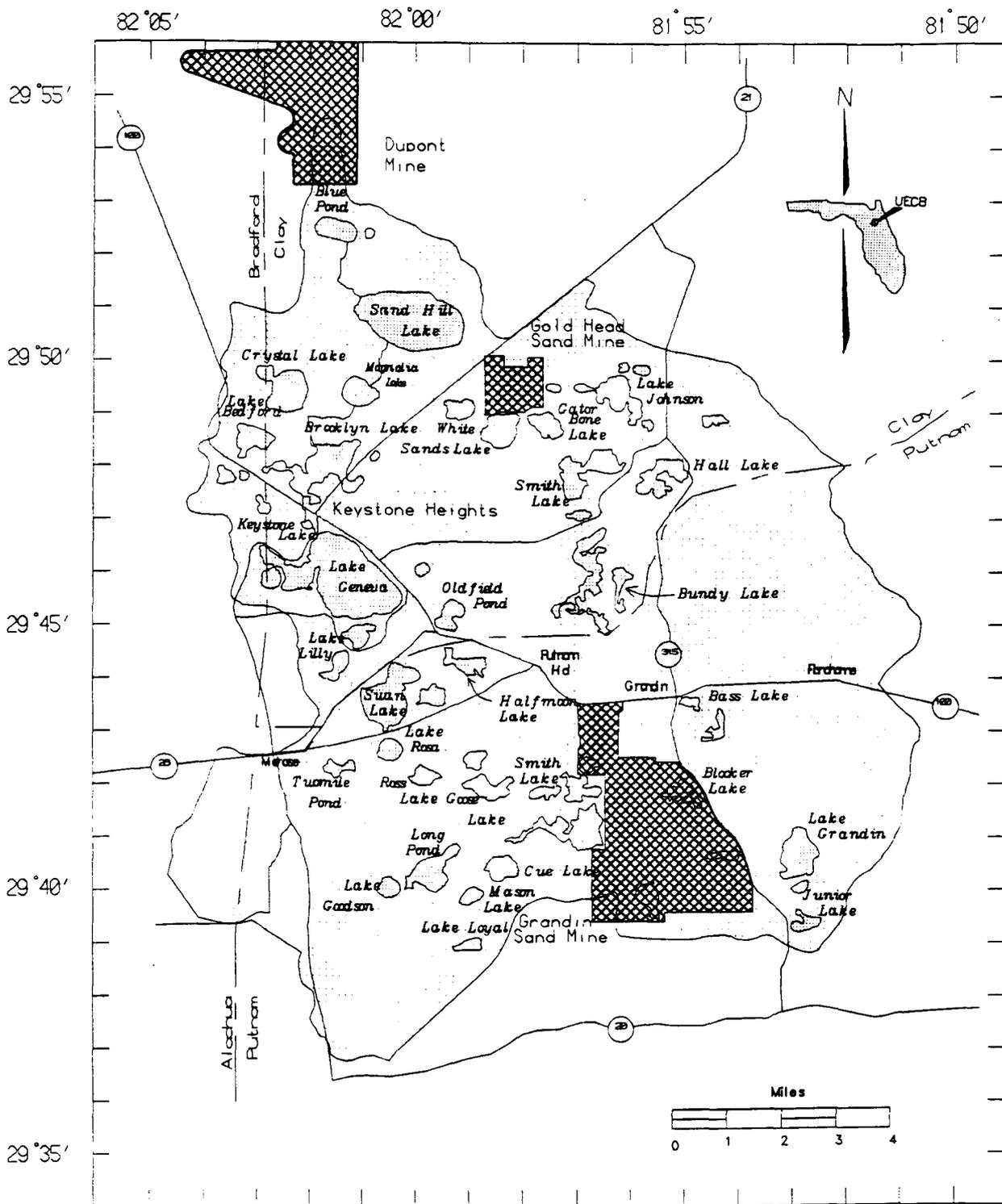


Figure 4-8. Location of Mines In and Adjacent To The UECB

pumping rates at these two mines total 2.87 million gallons per day (mgd). Dupont operates a mine that is permitted to pump 2.341 mgd, but its center of pumping is located generally north of the UECB (Motz et al., 1991a)(see Figure 4-8). Other relatively large groundwater users include Southern States Utilities, Camp Blanding, and the City of Keystone Heights. The total pumpage from the Upper Floridan aquifer in the UECB is approximately 7 mgd. By comparison, groundwater pumping totals approximately 173 mgd in Duval County and 20 mgd at the Gainesville Regional Utilities Murphree Wellfield.

Groundwater also is pumped from the intermediate aquifer system for domestic supplies (Clark et al., 1964). Domestic water use in Clay County increased from 2.49 mgd in 1979 to 3.64 mgd in 1987 (Marella, 1981 and 1990); pumping in the UECB from the intermediate aquifer presumably has followed a similar, increasing trend.

4.9 Hydraulic Characteristics

Hydraulic characteristics of the surficial, intermediate, and Upper Floridan aquifers have not been determined to any great extent in the UECB and they vary widely throughout northeast Florida. Reliable estimates of the hydraulic parameters of the Lower Floridan aquifer and of the middle confining unit of the Floridan aquifer system generally are not available because the Lower Floridan aquifer has not been tapped by wells to any significant extent (Durden and Motz, 1991).

4.9.1 Surficial Aquifer

Transmissivity estimates for the surficial aquifer system range from 60 to 1,000 square feet per day (ft²/day) in eastern Nassau County (Brown, 1984). Other estimates are 950 ft²/day along the Crescent City Ridge in Putnam County (Ross and Munch, 1980), 2,400 ft²/day near Mayport in Duval County (Franks, 1980), and 6,500 to 7,000 ft²/day in the Tillman Ridge area of east-central St.

Johns County (Hayes, 1981). Estimates for the storativity, or specific yield, of the surficial aquifer ranges from 0.1 at Mayport (Franks, 1980) to 0.2 in eastern Nassau County (Brown, 1984).

4.9.2 Intermediate Aquifer

Transmissivity estimates for the intermediate aquifer in Duval and St. Johns counties range from 250 to 7,000 ft²/day (Brown, 1984). The storativity of the intermediate aquifer ranges from 0.00001 to 0.001 (Brown, 1984).

4.9.3 Upper Floridan Aquifer

Transmissivity values for the Upper Floridan aquifer in the UECB and adjacent areas are more widely reported than values for the surficial and intermediate aquifers. Values obtained for western Putnam and western Clay counties range from 100,000 to 250,000 ft²/day (Andrews, 1990). Approximate ranges of 80,500 to 132,000 ft²/day for transmissivity and 3.14×10^{-4} to 1.34×10^{-3} day⁻¹ for leakance were determined from a pumping test conducted in a well on the south shore of Lake Swan in the UECB (Yobbi and Chappell, 1979). Two pumping tests at the Florida Rock Industries Gold Head sand mine near Keystone Heights have yielded transmissivities of 497,000 ft²/day (Motz, 1989) and 468,000 ft²/day (Missimer & Associates, 1991). The leakance values determined from these two tests were 6.59×10^{-5} day⁻¹ (Motz, 1989) and 1.74×10^{-3} day⁻¹ (Missimer & Associates, 1991). Estimates for the storativity of the Upper Floridan aquifer typically range from 0.0001 to 0.001 (Johnston and Bush, 1989; Missimer & Associates, 1991; and Motz, 1989).

5.0 HYDROGEOLOGIC INVESTIGATION

5.1 Lake Levels and Groundwater Data

Surficial, intermediate, and Upper Floridan aquifer wells in the UECB were inventoried, and lake levels and groundwater levels were compiled for selected locations (see Tables 5-1 through 5-4 and Figures 5-1 through 5-3). The selection of the wells was based on the availability of lithologic and geophysical logs that could be used in constructing a hydrogeologic cross-section through part of the basin. Also, selection was based on the availability of representative water-level data measured on or near the same day that could be used to investigate the relation between the water levels in the surficial aquifer and adjacent lake levels and to construct potentiometric maps for the intermediate and Upper Floridan aquifers. Water-level data were used from the five three-well clusters installed in 1991 by SJRWMD in the surficial, intermediate, and Upper Floridan aquifers at Gold Head State Park, Lake Geneva, McRae fire station, the Moody residence adjacent to Brooklyn Bay, and Sand Hill Lake and from other wells in the basin where longer term data were available. (Note: see Table A-1 in Appendix A for well construction data.)

Table 5-1. Selected Lake Levels in UECB

Lake	Lake Stage on July 15, 1991 (ft, NGVD)
Brooklyn	91.74
Geneva	92.95
Magnolia	118.85
Pebble	92.50
Sand Hill	131.19

Source: SJRWMD, 1991.

Table 5-2. Surficial Aquifer Wells

Well Number	Name (or Location)	Latitude - Longitude	Water Level (ft, NGVD)	Frequency of Measurements	Installation Date	Other Data
C-0438	Geneva	29° 46' 11" N 82° 00' 49" W	97.13	Hourly	July 1991	Caliper Log
C-0441	Sand Hill	29° 51' 16" N 82° 00' 58" W	131.07	Hourly	April 1991	Caliper Log
C-0444	Moody	29° 47' 28" N 82° 01' 09" W	91.77	Monthly	January 1991	Caliper Log and Slug Test
C-0452	Brooklyn	29° 48' 07" N 82° 02' 09" W	93.68	Monthly	January 1991	Caliper Log and Slug Test
C-0455	Gold Head	29° 49' 11" N 81° 57' 26" W	101.57	Hourly	July 1991	Caliper Log
C-0456	Lake Lowery (Sand Hill)	29° 51' 16" N 82° 00' 58" W	131.26	Hourly	March 1991	Caliper Log
C-0459	McRae	29° 48' 46" N 81° 55' 20" W	104.27	Monthly	August 1991	Caliper Log
P-0150	Lake Grandin	29° 40' 13" N 81° 53' 05" W	80.19	Monthly	February 1991	Caliper Log

Note: Water levels are for July 15, 1991 except for C-0452, which was interpolated from July 9 and July 22, 1991.
Source: SJRWMD, 1991 (except for slug tests, which were conducted by UF).

Table 5-3. Intermediate Aquifer Wells

Well Number	Name (or Location)	Latitude - Longitude	Water Level (ft, NGVD)	Period of Record	Frequency of Measurements	Installation Date	Other Data
C-0116	Brooklyn	29° 48' 07" N 82° 02' 09" W	83.41	1960-1977, 1989-1991	Bi-monthly, Monthly	--	Caliper Log and Slug Test
C-0380	Florida Rock	29° 49' 12" N 81° 57' 33" W	--	--	--	--	Caliper and Gamma Logs
C-0382	Gold Head Mine Entrance	29° 49' 57" N 81° 58' 49" W	--	1989-1991	--	--	Caliper and Gamma Logs
C-0384	Burkhalter	29° 49' 01" N 81° 58' 18" W	--	--	--	--	Caliper and Gamma Logs
C-0387	Hamilton	29° 49' 37" N 81° 58' 52" W	--	--	--	--	Caliper and Gamma Logs
C-0408	Woodland Drive	29° 47' 49" N 82° 01' 35" W	90.96	--	Monthly	--	--
C-0409	Loch Lommond	29° 48' 11" N 82° 00' 56" W	--	--	Monthly	--	Slug Test
C-0424	John's BBQ	29° 47' 27" N 82° 01' 37" W	89.28	--	Monthly	--	Caliper and Gamma Logs
C-0427	Farrel Gas	29° 47' 26" N 82° 02' 35" W	104.07	--	Monthly	--	Caliper and Gamma Logs
C-0428	Immokalee	29° 48' 40" N 82° 01' 37" W	105.13	--	Monthly	--	Caliper and Gamma Logs
C-0437	Geneva	29° 46' 11" N 82° 00' 49" W	82.10	1991-	Hourly	July 1991	Caliper Log
C-0440	Sand Hill	29° 51' 16" N 82° 00' 58" W	126.81	1991-	Hourly	April 1991	Caliper Log

Table 5-3. Intermediate Aquifer Wells, continued.

Well Number	Name (or Location)	Latitude - Longitude	Water Level (ft, NGVD)	Period of Record	Frequency of Measurements	Installation Date	Other Data
C-0443	Moody	29° 47' 28" N 82° 01' 09" W	85.24	1991-	Monthly	January 1991	Caliper Log and Slug Test
C-0454	Gold Head	29° 49' 11" N 81° 57' 26" W	81.85	1991-	Hourly	July 1991	Caliper Log
C-0458	McRae	29° 48' 46" N 81° 55' 20" W	87.67	1991-	Monthly	August 1991	Caliper Log
P-0151	Lake Grandin	29° 40' 13" N 81° 53' 05" W	78.45	--	--	February 1991	Caliper and Gamma Logs

Note: Water levels are for July 15, 1991.

Source: SJRWMD, 1991 (except for slug tests, which were conducted by UF).

Table 5-4. Upper Floridan Aquifer Wells

Well Number	Name (or Location)	Latitude - Longitude	Water Level (ft, NGVD)	Period of Record	Frequency of Measurements	Installation Date	Other Data
B-0011	Starke	29° 52' 57" N 82° 04' 57" W	82.58	1975-1991	Monthly	--	--
C-0009	Melrose	29° 43' 13" N 82° 02' 46" W	81.30	--	Semi-Annually	--	--
C-0031	C31-USGS	29° 46' 34" N 81° 59' 14" W	76.91	--	Monthly	--	Caliper and Gamma Logs
C-0034	Gold Head State Park	29° 49' 13" N 81° 57' 27" W	76.74	--	Monthly	--	Caliper and Gamma Logs
C-0120	Brooklyn	29° 48' 07" N 82° 02' 09" W	78.96	1960-1974, 1975-1991	Weekly, Daily	--	Caliper and Gamma Logs
C-0383	King	29° 49' 00" N 81° 58' 12" W	--	--	--	--	Caliper and Gamma Logs
C-0386	Hendrix	29° 49' 05" N 81° 57' 36" W	--	--	--	--	Caliper and Gamma Logs
C-0388	Moses	29° 49' 16" N 81° 58' 55" W	--	--	--	--	Caliper and Gamma Logs
C-0436	Geneva	29° 46' 11" N 82° 00' 49" W	78.69	1991-	Hourly	July 1991	Lithologic, Caliper, and Gamma Logs
C-0439	Sand Hill	29° 51' 16" N 82° 00' 58" W	76.24	1991-	Hourly	April 1991	Lithologic, Caliper, and Gamma Logs

Table 5-4. Upper Floridan Aquifer Wells, continued.

Well Number	Name (or Location)	Latitude - Longitude	Water Level (ft, NGVD)	Period of Record	Frequency of Measurements	Installation Date	Other Data
C-0442	Moody	29° 47' 28" N 82° 01' 09" W	78.04	1991-	Monthly	January 1991	Lithologic Log
C-0451	Magnolia	29° 49' 37" N 82° 01' 45" W	--	1991-	Monthly	March 1991	Lithologic, Caliper, and Gamma Logs
C-0453	Gold Head	29° 49' 11" N 81° 57' 26" W	76.58	1991-	Hourly	July 1991	Lithologic, Caliper and Gamma Logs
C-0457	McRae	29° 48' 46" N 81° 55' 20" W	75.13	1991-	Monthly	August 1991	Lithologic, Caliper and Gamma Logs
P-0008	Chesser	29° 38' 02" N 81° 59' 19" W	76.49	1976-1991	Daily	--	--

Note: Water levels are for July 15, 1991 except for B-0011, which was interpolated from July 10 and July 31, 1991, and C-0009, which was measured on July 10, 1991.

Source: SJRWMD, 1991.

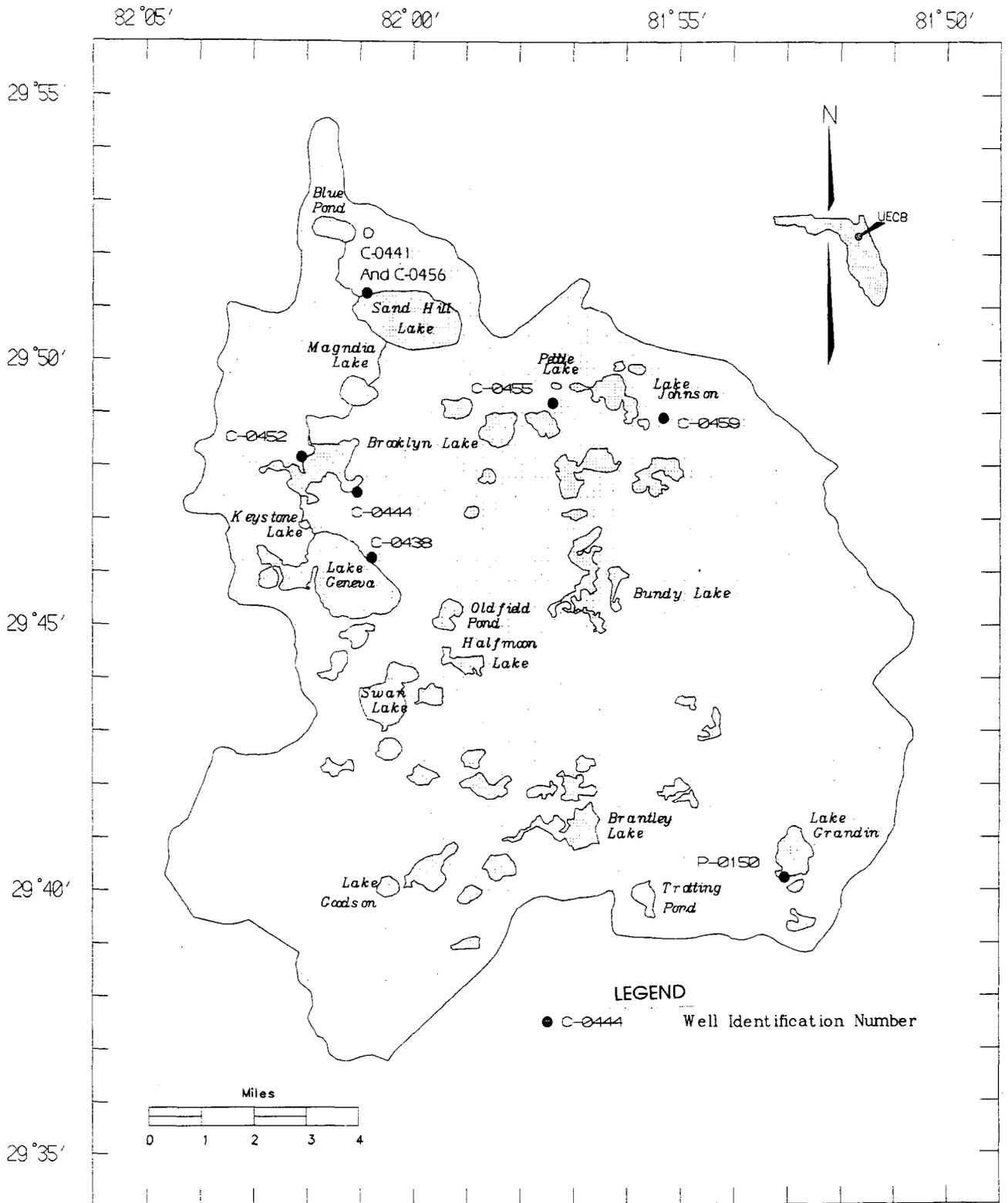


Figure 5-1. Surficial Aquifer Wells

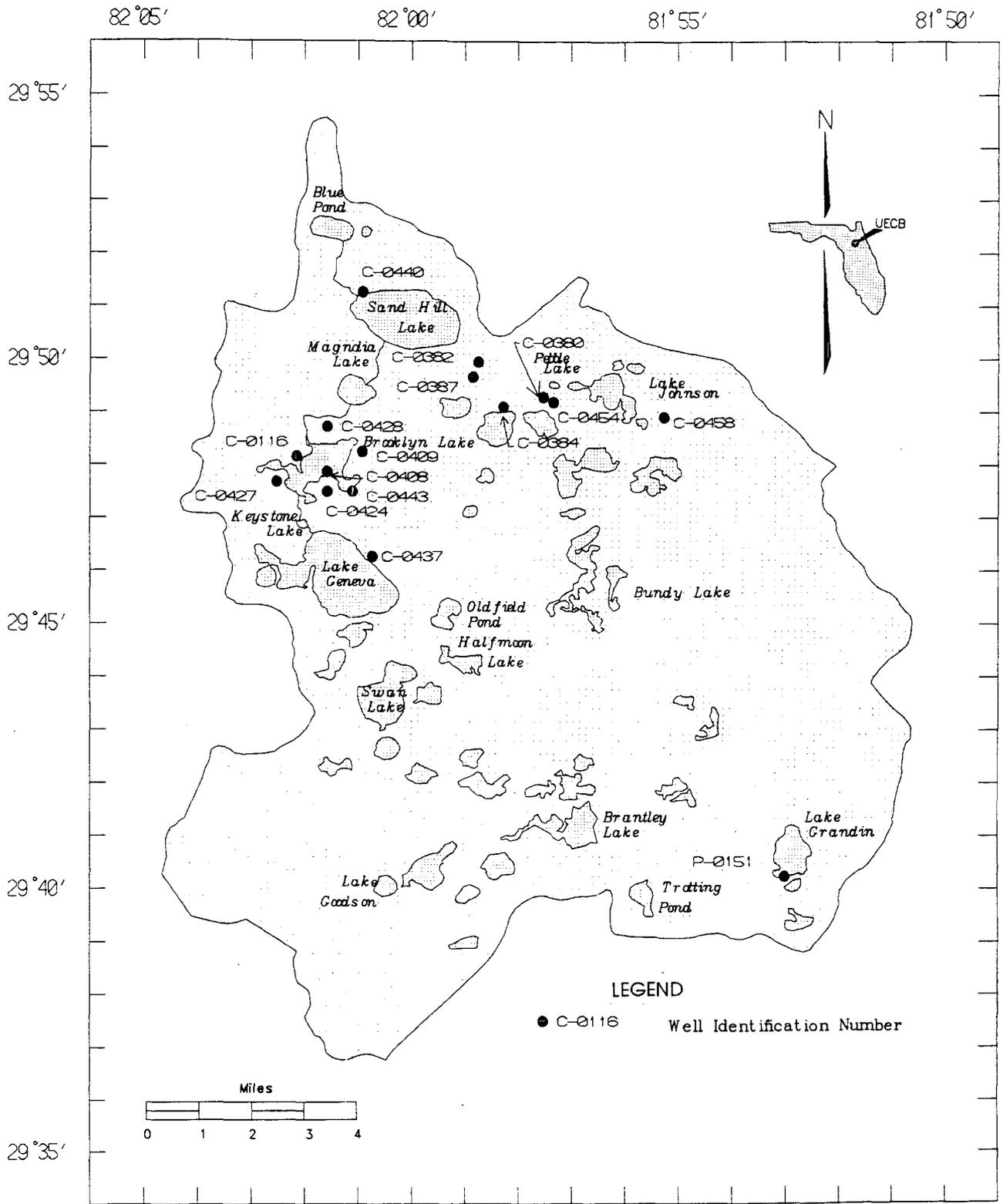


Figure 5-2. Intermediate Aquifer Wells

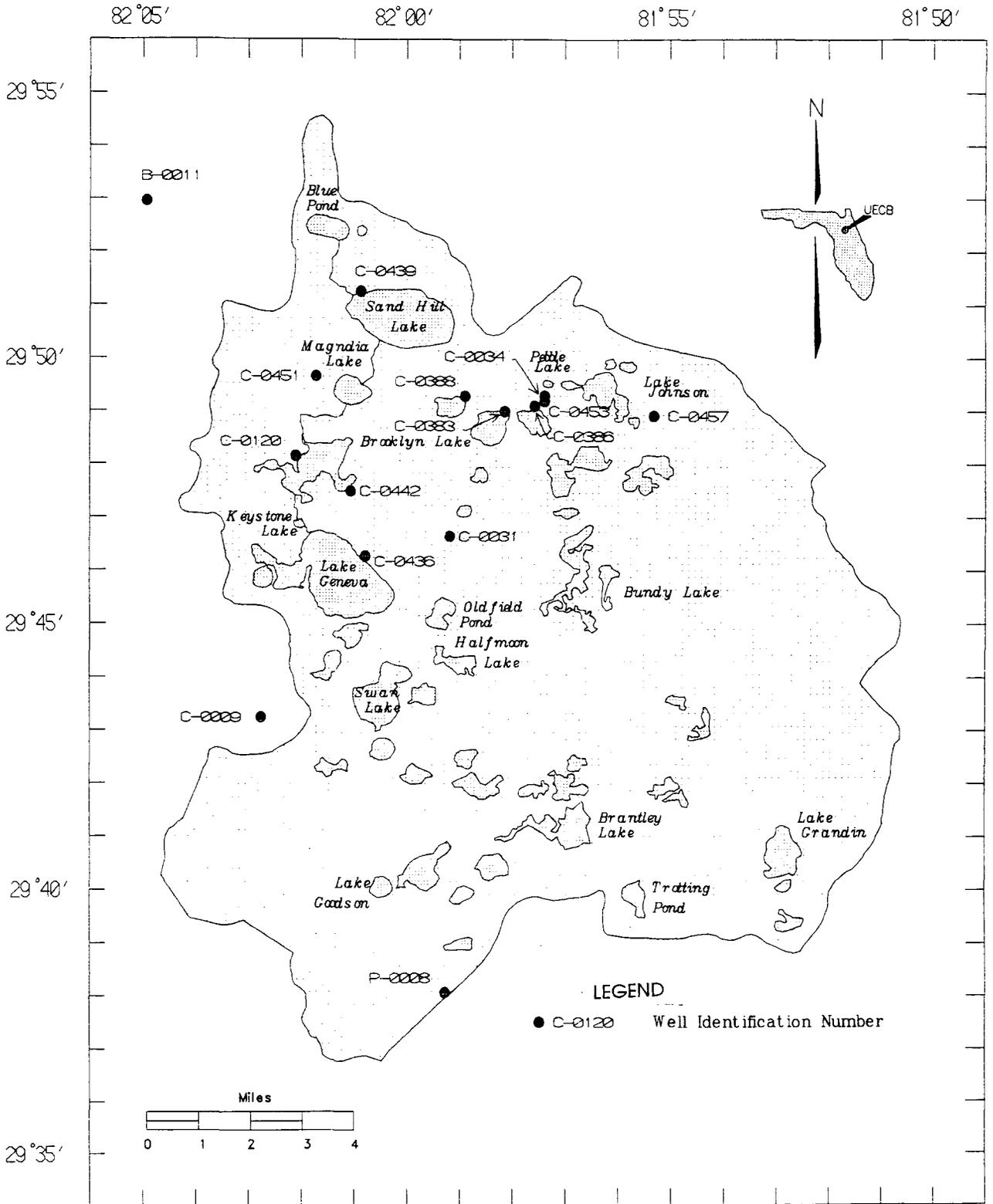


Figure 5-3. Upper Floridan Aquifer Wells

5.2 Test Borings and Lithologic Logs

Lithologic descriptions compiled by SJRWMD were obtained for six test borings drilled in the UECB (see Tables A-2 through A-7 in Appendix A). The borings were located at the sites of the subsequently installed Geneva, Sand Hill, Moody, Magnolia, Gold Head, and McRae wells (see Figure 5-3 for well locations and Table A-1 for well-construction data). Along with the geophysical logs (see section 5.3 below), the lithologic descriptions were used to identify geologic and hydrologic units to construct a hydrogeologic section through part of the UECB.

5.3 Geophysical Logs

Caliper and gamma logs have been run by SJRWMD in a number of wells in the UECB, as noted in Tables 5-2 through 5-4. As indicated by the logs for wells C-0439, C-0442, C-0451, C-0453, and C-0457, with increasing depth, the gamma logs typically show relatively low responses in the surficial aquifer and high responses at the top and bottom of the Hawthorn Group (see Figures A-1 through A-4 in Appendix A). These high responses generally coincide with the upper and lower confining units that separate the intermediate aquifer from the surficial and Upper Floridan aquifers. At greater depths, the gamma logs have very low responses that coincide with the Upper Floridan aquifer.

5.4 Slug Tests

In-situ permeability tests, or slug tests, were performed in five wells to obtain estimates of hydraulic conductivity (see Figures B-1 through B-5 in Appendix B). Two of the wells are open to the surficial aquifer, and three of the wells are open to the intermediate aquifer (see Table 5-5). At each well, a known volume, or "slug", of water was added, and the falling water level was monitored as a function of time as the groundwater level returned to equilibrium. An In-Situ, Inc., Hermit environmental data logger was used to record the data during the tests. The Hvorslev (1951) method (described by Freeze and Cherry,

Table 5-5. Results of Slug Tests

Well Number	Name	Aquifer	Hydraulic Conductivity (ft/day)
C-0130	Brooklyn Lake	Surficial	3.33
C-0444	Moody	Surficial	0.767
C-0116	Brooklyn Lake	Intermediate	3.71
C-0409	Loch Lommond	Intermediate	2.65
C-0443	Moody	Intermediate	0.699

1979) for point piezometers was used to calculate the hydraulic conductivity from each set of slug test data. The hydraulic conductivity values for the surficial aquifer were 0.767 and 3.33 ft/day, and the values for the intermediate aquifer ranged from 0.699 to 3.71 ft/day (see Table 5-5). These values are somewhat lower than would be expected for the types of deposits that comprise the surficial and intermediate aquifers, based on Freeze and Cherry (1979). However, it is not unusual for this result to occur when slug tests are used to measure hydraulic conductivity (Motz et al., 1991c; and White and Trexler, 1992).

5.5 Hydrogeologic Cross-Section

A hydrogeologic cross-section based on available lithologic and geophysical logs was constructed that extended approximately 8 miles from the northwest to the southeast in the northern part of the UECB (see Figure 5-4). The section extended from a location (A) south of Blue Pond southeastward 4.36 miles to the Moses well (B) adjacent to Spring Lake, eastward 1.64 miles to Gold Head State Park (C), and then 2 miles southeastward to the McRae fire station (D). The location of this section generally coincides with the direction of flow in the intermediate aquifer and, to the extent possible, the Upper Floridan aquifer, i.e., downgradient and perpendicular to the potentiometric contours. The line of sec-

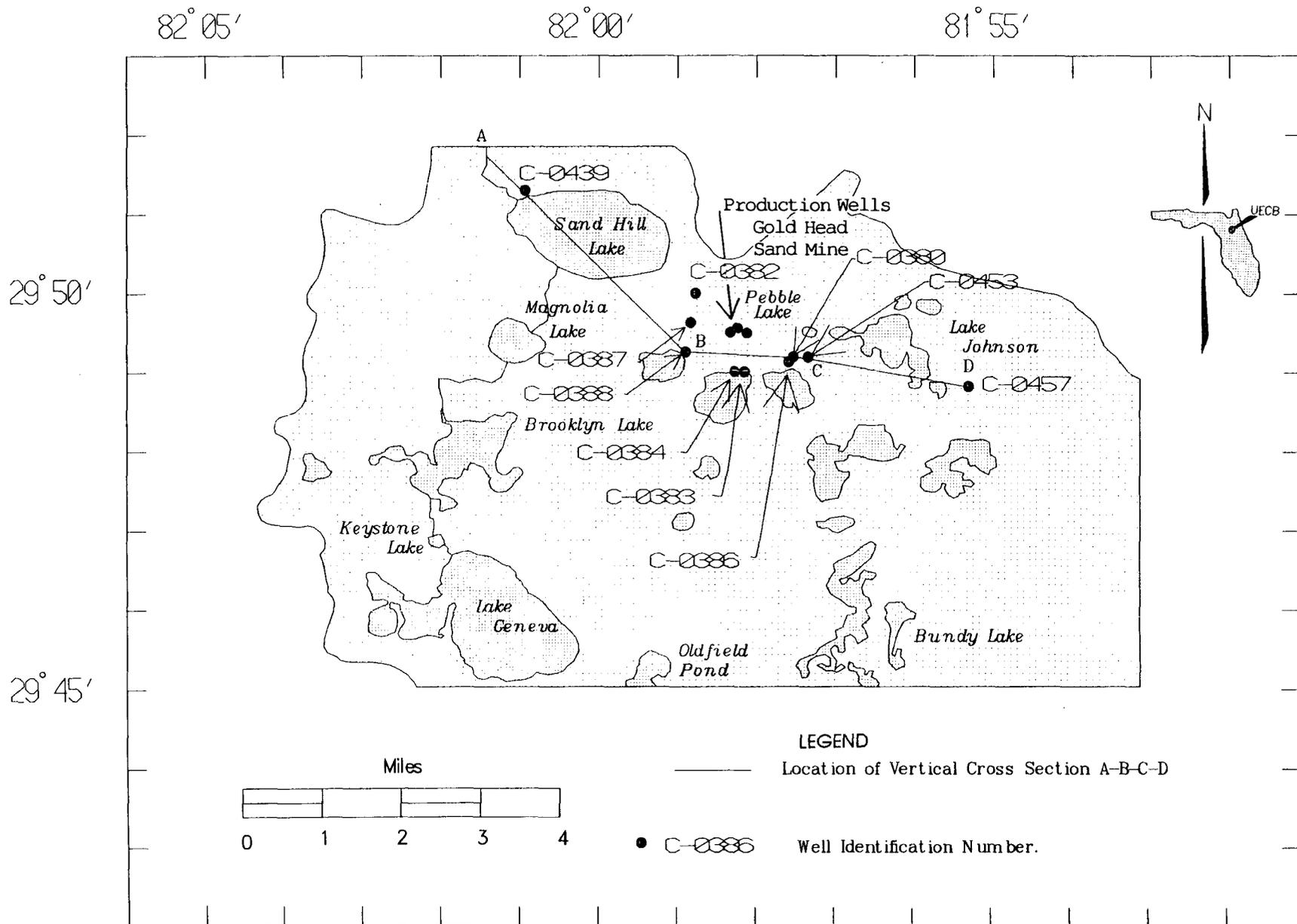


Figure 5-4. Location of Hydrogeologic Cross-Section A-B-C-D

tion passes through or near several lakes and Florida Rock Industries Gold Head sand mine.

Lithologic and geophysical data from three of the well clusters recently drilled by SJRWMD were used in constructing the cross-section (see Figure 5-4). These clusters are located on the northwest shore of Sand Hill Lake (well C-0439), in Gold Head State Park (well C-0453), and at the McRae fire station well (C-0457). Data from seven other wells (C-0380, C-0382, C-0383, C-0384, C-0386, C-0387, and C-0388) on or near the line of section also were utilized. The wells that did not lie directly on the line of section were projected into the line of section at their original elevations instead of changing their elevations based on depths below land surface at their projected locations in the cross-section. Land-surface elevations between surveyed well elevations along the line of section were estimated from the USGS Gold Head Branch and Keystone Heights topographic quadrangle maps.

Based on the lithologic descriptions and geophysical logs, the hydrologic units were delineated on the cross-section (see Figure 5-5). The upper and lower confining units are shown as continuous units across the cross-section. These units, part of the Hawthorn Group, are likely to be discontinuous in places due to sinkhole collapse and other karst features, however.

5.6 Water Levels

5.6.1 Lake and Groundwater Levels

Water-surface elevations at five lakes ranged from 91.74 ft, NGVD, at Brooklyn Lake to 131.19 ft, NGVD, at Sand Hill Lake on July 15, 1991 (see Table 5-1 and Figure 5-6). Water levels in the surficial aquifer wells adjacent to Lake Geneva and Pebble Lake were 4.18 ft and 9.07 ft higher than the respective lake levels. At Sand Hill Lake, the water level was 0.07 ft higher than the lake level in the upper part of the surficial aquifer in well C-0456 and 0.12 ft lower than the lake level in the lower part of the surficial aquifer in well C-0441. At Brooklyn Lake, the two surficial aquifer wells had groundwater levels 0.3 ft

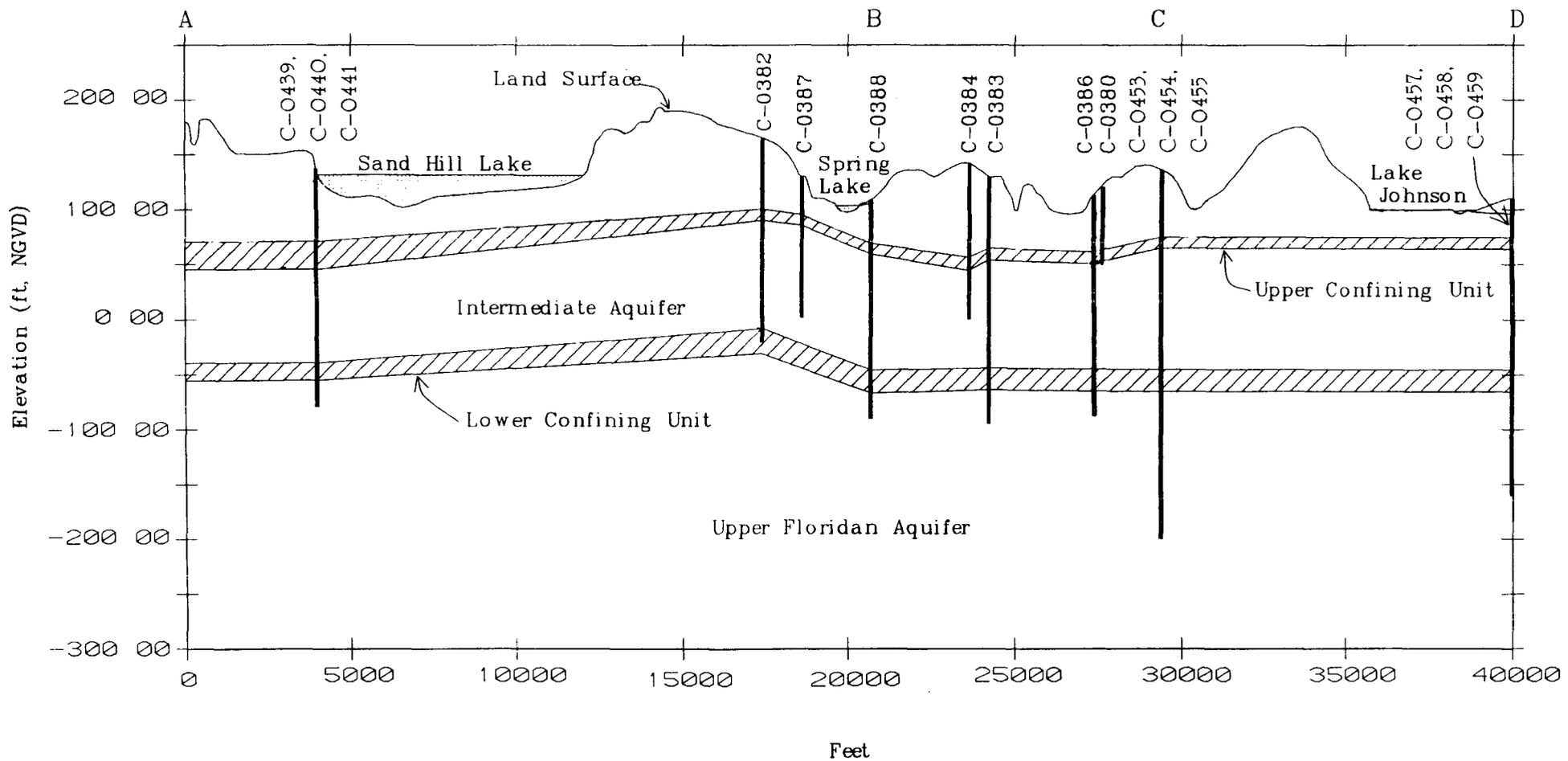


Figure 5-5. Hydrogeologic Cross-Section A-B-C-D

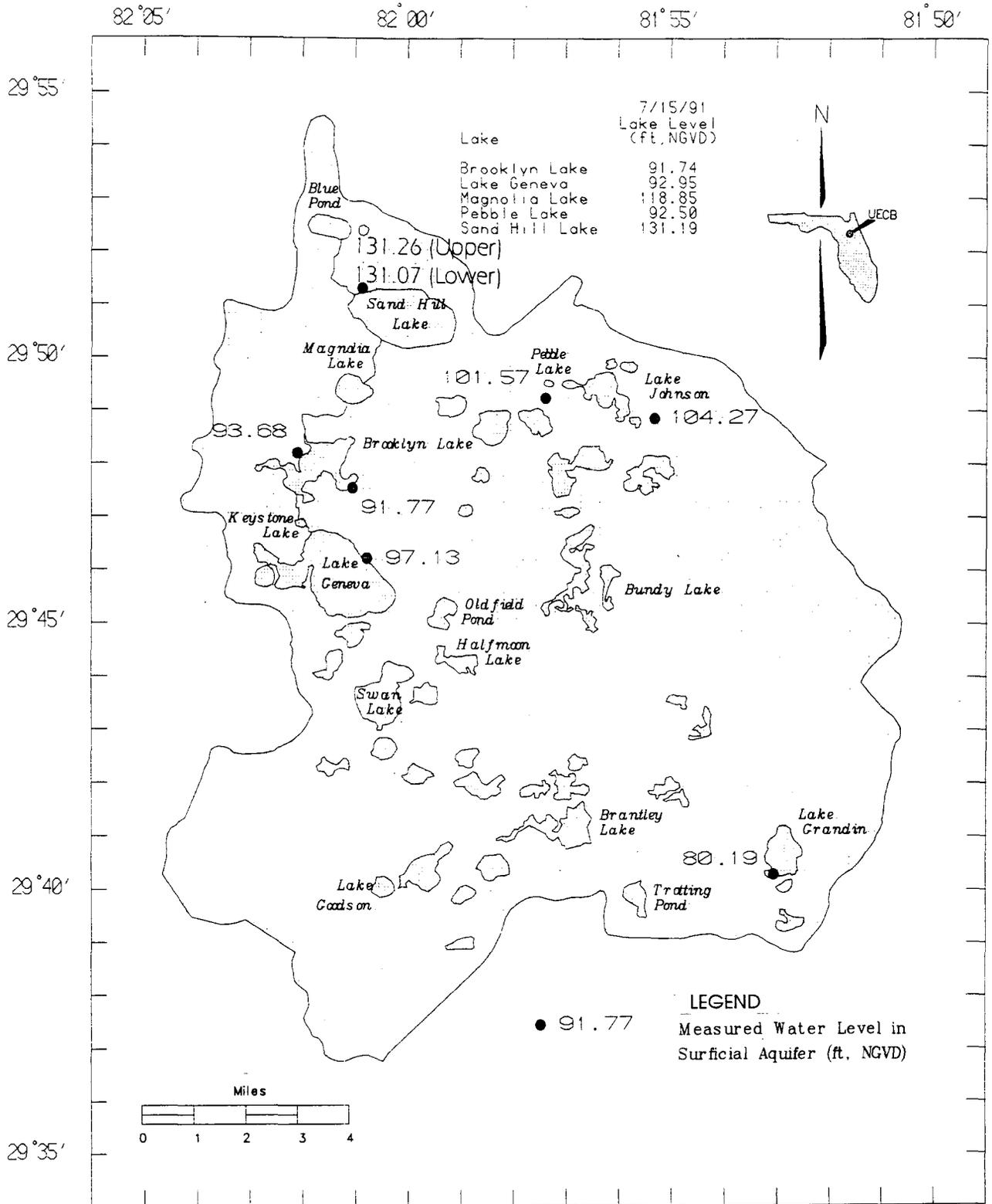


Figure 5-6. Water Levels in July 1991 in Selected Lakes and the Surficial Aquifer

and 1.94 ft higher than the lake. Based on these lake and groundwater levels, discharge was occurring from the upper part of the surficial aquifer into the lakes, and thus the lakes were receiving recharge from the surficial aquifer. Also, based on the available data, discharge was occurring from the lakes into the lower part of the surficial aquifer.

Water levels in the intermediate aquifer wells ranged from 82.10 ft, NGVD, at Lake Geneva to 126.81 ft, NGVD, on the northwest side of Sand Hill Lake (see Figure 5-7). The direction of groundwater flow in the intermediate aquifer, generally downgradient and perpendicular to the contours of equal elevation on the potentiometric surface, is to the southeast from the area in the vicinity of Sand Hill Lake. The area between Pebble Lake and Lake Johnson bounded by the 85 ft, NGVD, contour is a groundwater trough or depression, and flow occurs into this area from the northwest and also from the southeast. This likely is an area of significant discharge from the intermediate aquifer to the underlying Upper Floridan aquifer. The potentiometric surface in the vicinity of Brooklyn Lake indicates that discharge occurs from the intermediate aquifer at that location. The elevation of the hydraulic head in the intermediate aquifer wells adjacent to Brooklyn Lake is less than the stage of Brooklyn Lake and greater than the head in the Upper Floridan aquifer (see Figures 5-6 and 5-8). This suggests a hydrogeologic condition in which flow is occurring from both the lake and the intermediate aquifer downward into the Upper Floridan aquifer.

Water levels in the Upper Floridan aquifer wells ranged from 75.13 ft, NGVD, at Lake Johnson to 82.58 ft, NGVD, at the Starke well, which is approximately three miles northwest of the UECB (see Figure 5-8). The direction of flow in the Upper Floridan aquifer is generally to the east and northeast, based on the potentiometric surface. A significant bulge in the potentiometric surface can be observed near White Sands Lake. This feature generally coincides with the

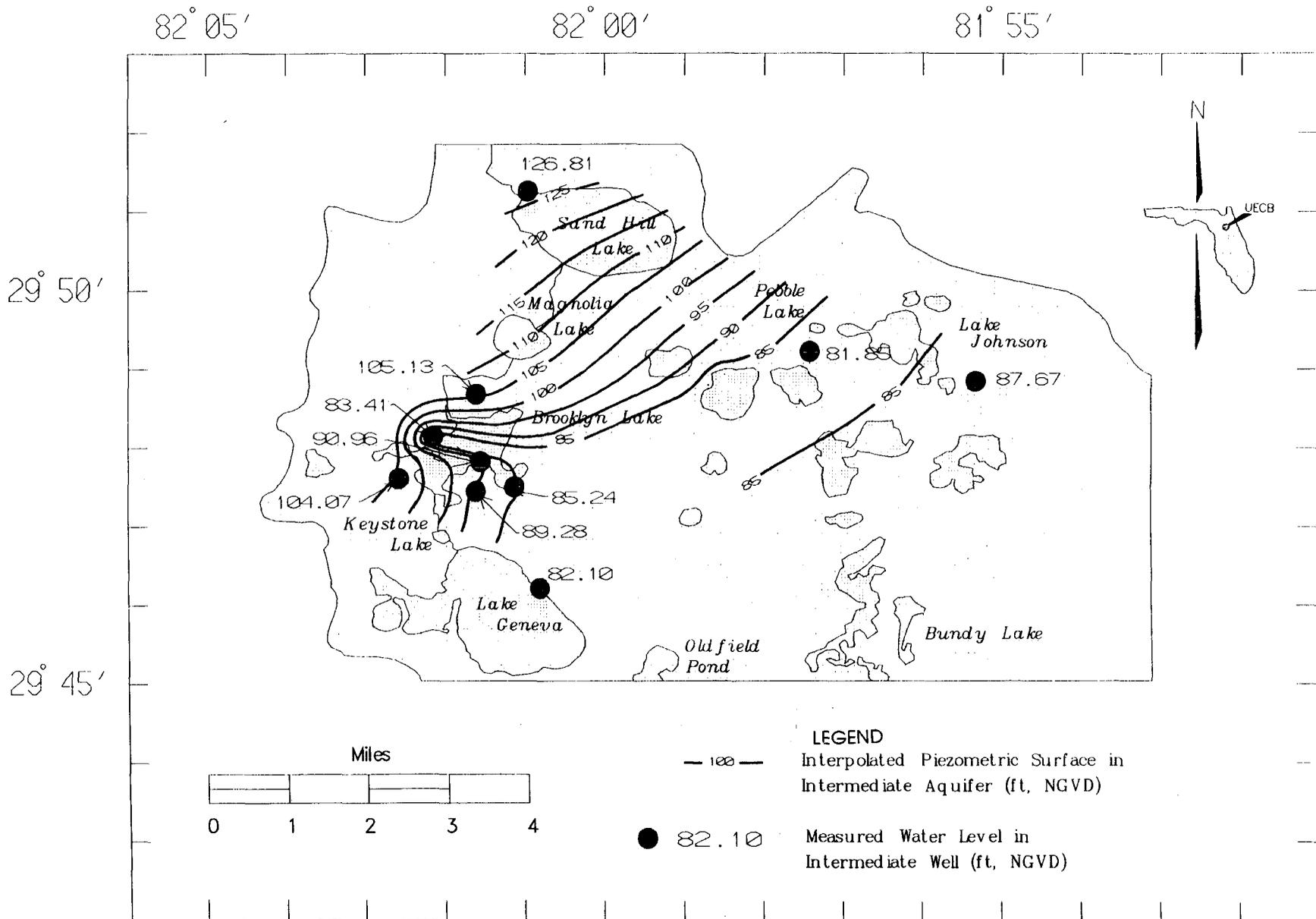


Figure 5-7. Potentiometric Map of the Intermediate Aquifer in July 1991

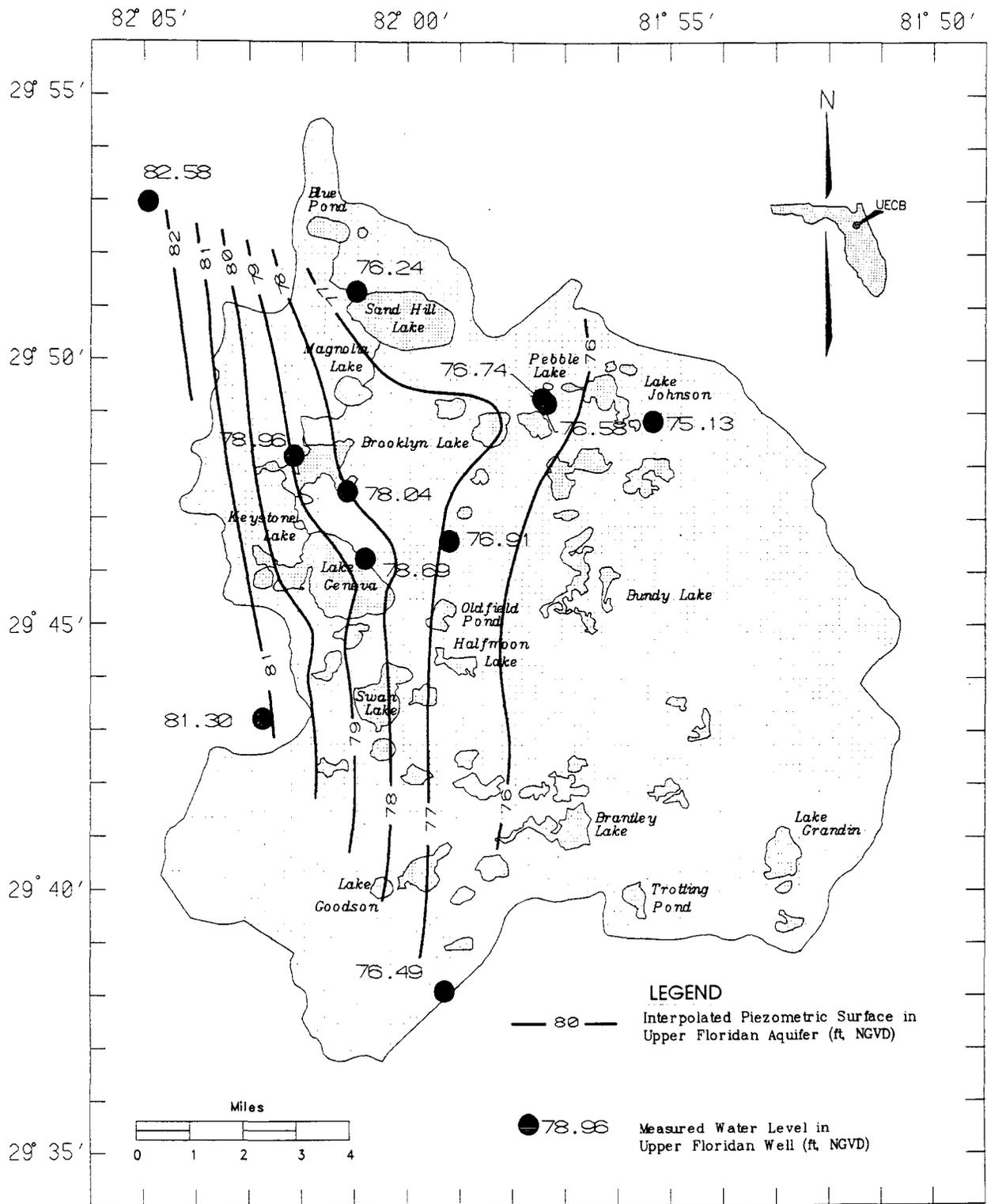


Figure 5-8. Potentiometric Map of the Upper Floridan Aquifer in July 1991

area of discharge in the overlying intermediate aquifer, and it likely indicates an area of significant recharge to the Upper Floridan aquifer.

5.6.2 Hydraulic Head Along Cross-Section

Hydraulic heads along the hydrogeologic cross-section were estimated using direct and indirect methods. Water levels measured in the surficial, intermediate, and Upper Floridan aquifers wells (Tables 5-2 - 5-4) were utilized as data, along with water levels read from the potentiometric maps of the intermediate and Upper Floridan aquifers along the line of section (Figures 5-7 and 5-8). The elevation of the water table also was determined from the water-surface elevations of the lakes (Table 5-1) through which the line of section passes and from estimates based on an equation developed by SJRWMD (written communication, 1992):

$$W = -1.61 + 0.901 L \quad (5-1)$$

where L = land-surface elevation (ft, NGVD); and W = water-table elevation (ft, NGVD)(see Figure 5-9).

The observed hydraulic heads in the aquifer units, the observed lake levels, and the water-table heads calculated from Equation 5-1 were interpolated linearly in each aquifer unit along the hydrogeologic cross-section (see Figure 5-10). It was assumed that the hydraulic heads in each aquifer unit were vertically uniform and that the vertical changes in head between each aquifer unit occurred across the confining units. The heads range from more than 160 ft, NGVD, in the surficial aquifer in the vicinity of Sand Hill Lake to 75.13 ft, NGVD, at the McRae Upper Floridan aquifer well (C-0457) near Lake Johnson. The hydrologic features evident in the surficial aquifer water levels and the intermediate and Upper Floridan aquifer potentiometric surfaces (Figures 5-6 through 5-8) also are evident in the cross-section (Figure 5-10). The surficial aquifer is recharged by precipitation, and it discharges into nearby lakes and topographically low areas and downward through the upper confining unit to the intermediate aquifer. Flow in the intermediate aquifer occurs from the northwest and the

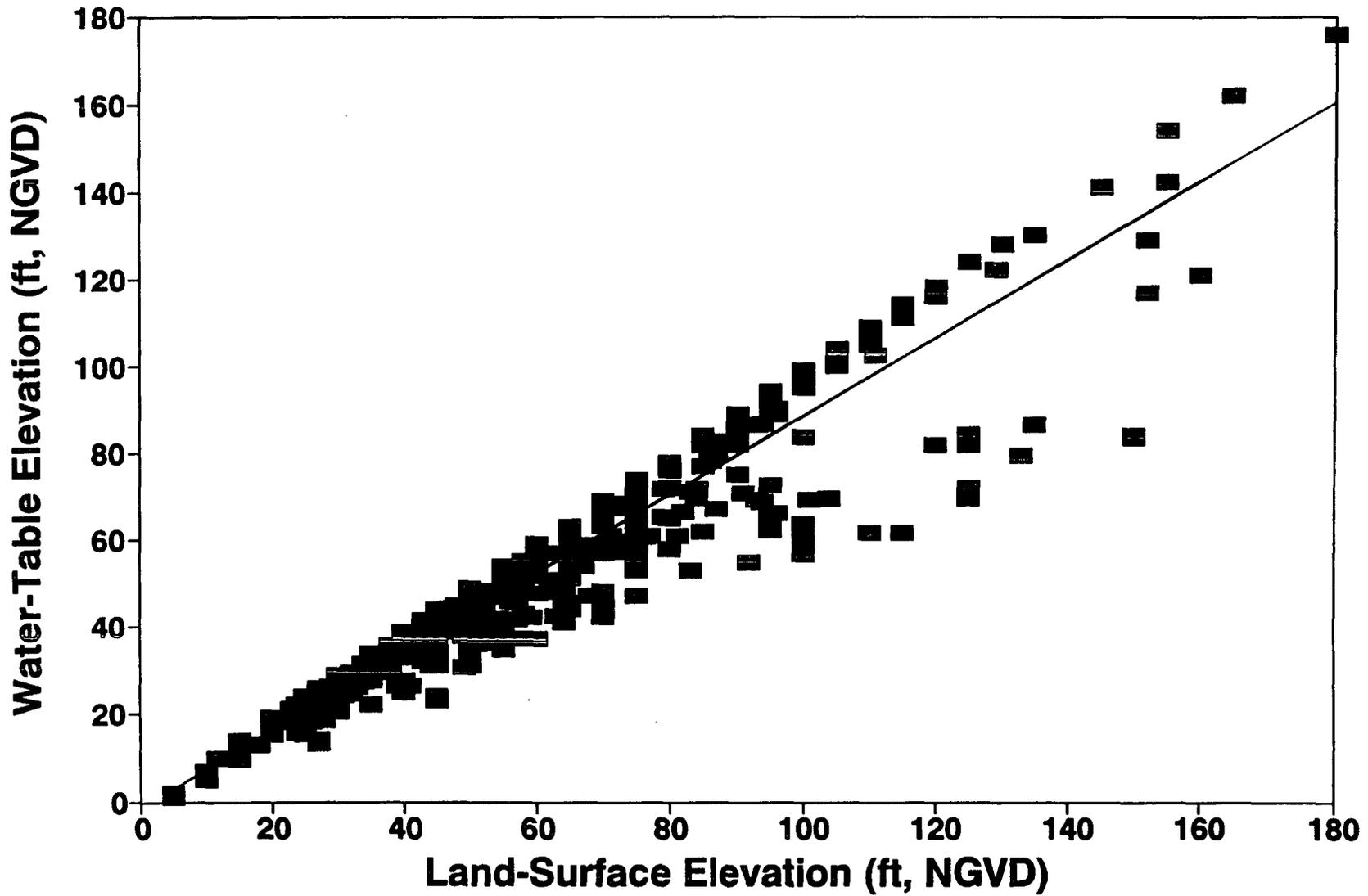


Figure 5-9. Water-Table Elevation versus Land-Surface Elevation From Data Collected Throughout the St. Johns River Water Management District (Source: SJRWMD, 1992)

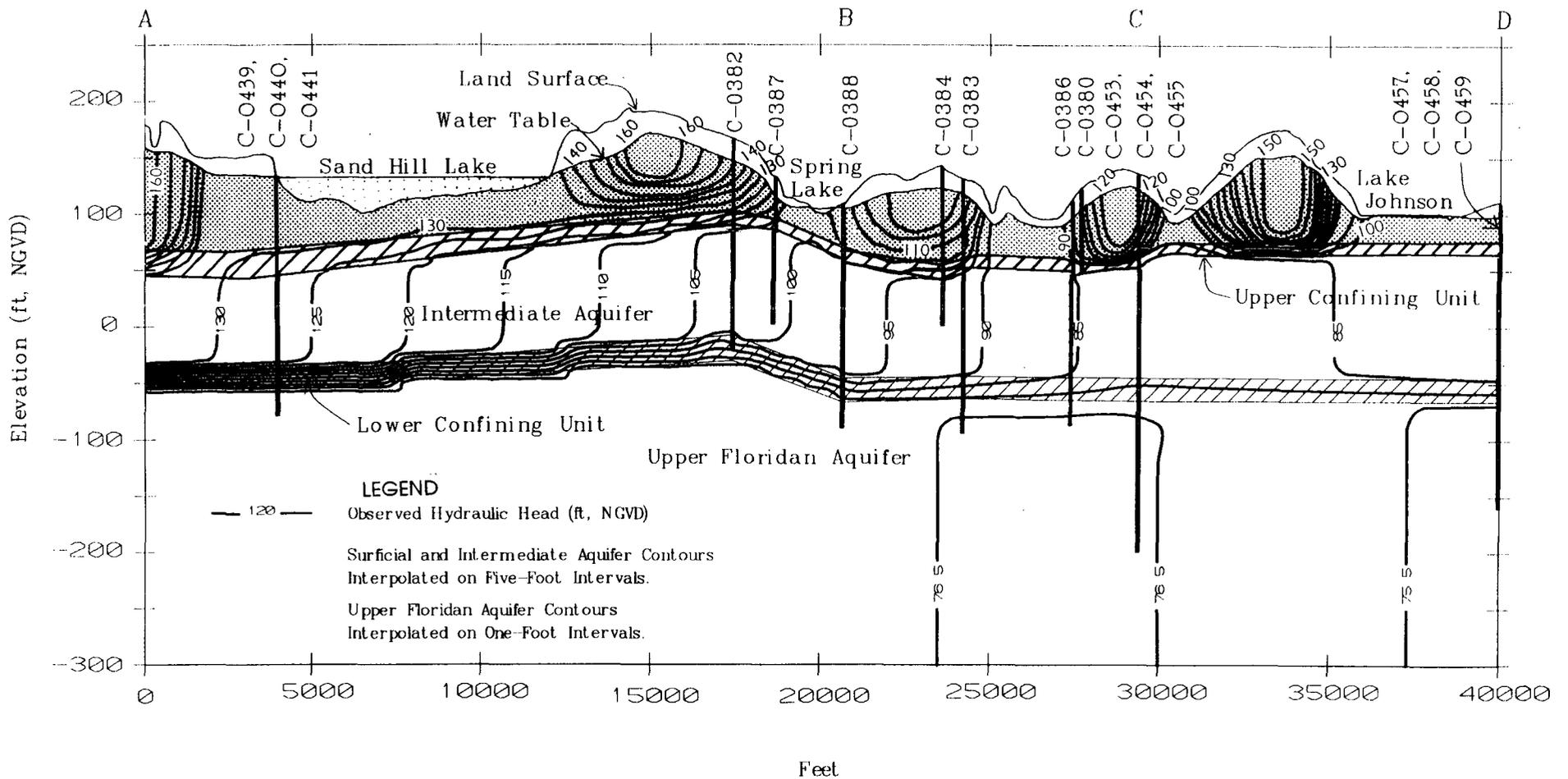


Figure 5-10. Hydraulic Heads Observed Along the Hydrogeologic Cross-Section

southeast toward the region where the hydraulic head is less than 85 ft, NGVD. Discharge from the intermediate aquifer occurs to the Upper Floridan aquifer through the lower confining unit in this area but also all along the cross-section. A potentiometric high occurs in the Upper Floridan aquifer near section B-C along the cross-section, and it is very near the discharge area in the overlying intermediate aquifer. Flow in the Upper Floridan aquifer from this potentiometric high occurs both to the northwest and to the southeast.

5.6.3 Water Levels at Gold Head Sand Mine

Six observation wells were installed at the Gold Head sand mine in April 1991 (Missimer & Associates, 1991) (see Figure 5-11 and Table 5-6). Two wells (W-1S and W-2S) were completed in the surficial aquifer, three wells were completed in the intermediate aquifer (W-1I, W-2I, and W-3I), and one well was completed in the Upper Floridan aquifer (W-1D). Water levels were measured in these wells and at an existing observation well (W-3S) as part of data collected for an aquifer pumping test conducted during June 10-14, 1991.

The water levels in these wells were compared to the surficial, intermediate, and Upper Floridan aquifer water levels elsewhere in the UECB for July 15, 1991 (see Figures 5-6 through 5-8). The dates closest to July 15, 1991 for which water levels are reported for these wells are June 17, 1991 and August 21, 1991 (see Table 5-6). In the surficial aquifer, the water level in W-2S is consistent with other surficial aquifer water levels (Figure 5-6). The water levels in W-1S and W-3S are considerably higher and lower, respectively, than other surficial aquifer water levels. In the intermediate aquifer, the water level in W-3I is consistent with other intermediate aquifer water levels (Figure 5-7), but water levels in W-1I and W-2I are both higher. In the Upper Floridan aquifer, the water level in W-1D is consistent with other water levels in the Upper Floridan aquifer (Figure 5-8). Well clusters W-1 and W-2 are adjacent to the dredge pond (see Figure 5-11), which is maintained at an elevation 40 ft higher than nearby

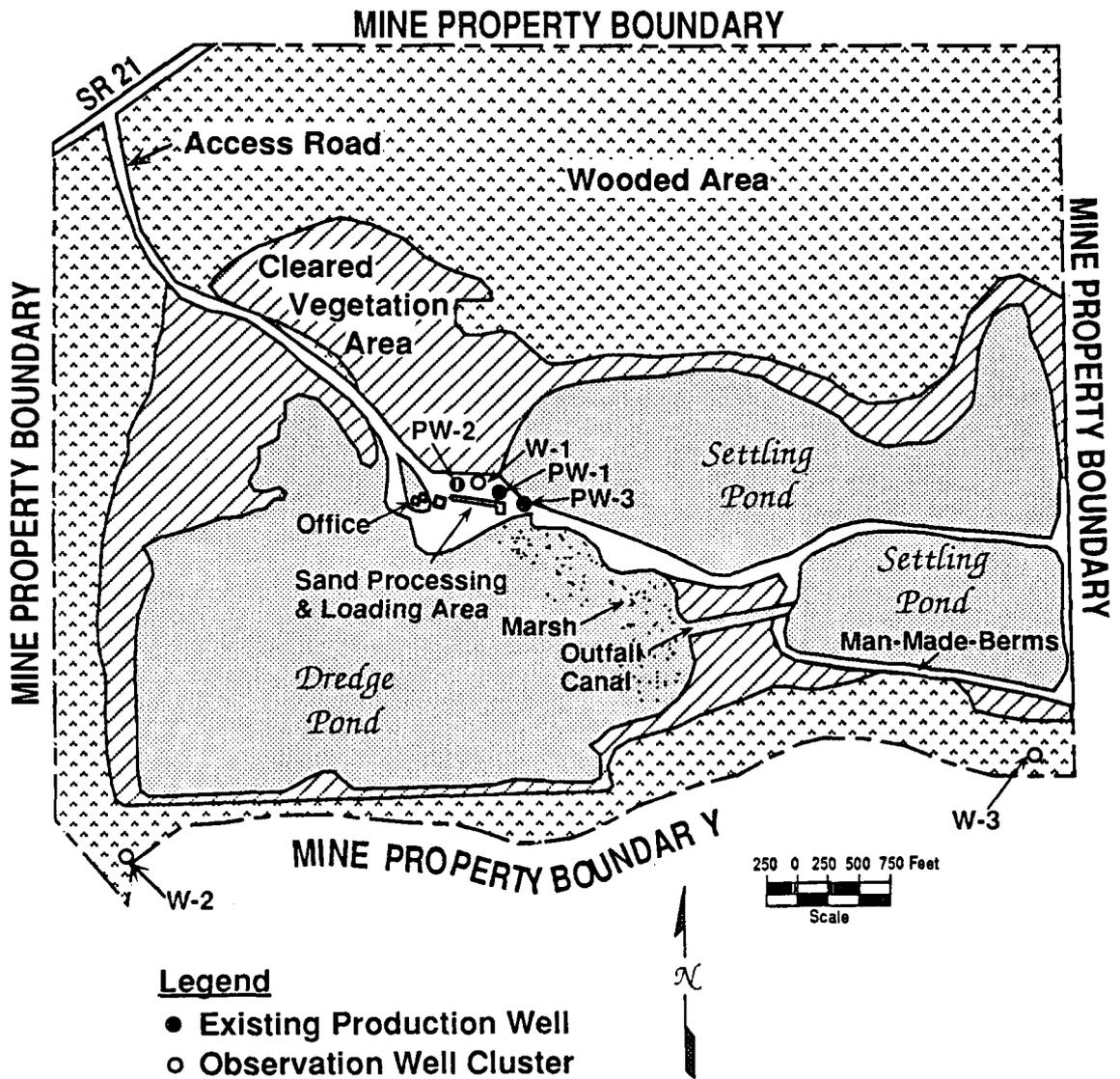


Figure 5-11. Observation and Production Wells at Gold Head Sand Mine (Source: Missimer & Associates, 1991)

Table 5-6. Observation Wells and Water Levels at Gold Head Sand Mine

Well	Aquifer	Water Levels (ft, NGVD)	
		6/17/91	8/21/91
W-1S	Surficial	146.06	146.87
W-2S	Surficial	102.34	104.89
W-3S	Surficial	79.82	80.83
W-1I	Intermediate	131.01	132.68
W-2I	Intermediate	89.99	91.84
W-3I	Intermediate	79.66	80.53
W-1D	Upper Floridan	75.44	76.25

Source: Compiled from Missimer & Associates, 1991.

Gator Bone, Spring, and White Sands (Swindle) lakes, according to Missimer & Associates (1991). The water levels in W-1S, W-1I, and W-2I apparently reflect the influence that the elevated water level in the dredge pond has on the water levels in the surficial and intermediate aquifers adjacent to the dredge pond.

6.0 Groundwater Model Along Vertical Cross-Section

6.1 Groundwater Model

A groundwater model was constructed to represent the line of section A-B-C-D through the northern part of the UECB. The hydrogeologic cross-section (Figure 5-5) was simulated as a two-dimensional vertical section that included the surficial aquifer, the upper confining unit, the intermediate aquifer, the lower confining unit, and the Upper Floridan aquifer. To calibrate the groundwater model, hydraulic heads were simulated in these units and compared to the observed heads (Figure 5-10).

6.2 Software

6.2.1 Modflow

The McDonald-Harbaugh (1988) modular three-dimensional finite-difference groundwater flow model (Modflow) was selected to represent the vertical cross-section. Specifically, Version 3.0, developed by the USGS and distributed by the International Ground Water Modeling Center, was used in this application. In Modflow, a block-centered finite-difference approach is used to solve the groundwater flow equation. Two solution techniques can be used, i.e., the strongly implicit procedure or the slice-successive over-relaxation procedure. Aquifer layers can be simulated as confined, unconfined, or a combination of confined and unconfined, and external stresses such as wells, areal recharge, evapotranspiration, drains, and streams can be included. Modflow is written in a modular form consisting of a main routine and a series of highly independent subroutines called "modules." These modules are grouped into packages that represent specific features of the hydrologic system.

6.2.2 Premod

Version 2.3 of a preprocessor called Premod was used to develop the input files required for Modflow. In Premod, files are created for basic information

such as the number of stress periods, the time unit used in the model, and boundary conditions, and additional files are created for aquifer size and parameters. Constant head nodes as well as inactive nodes can be specified, and head values are assigned for the constant head nodes and for the inactive cells. Layer type, anisotropy ratio, grid spacing, and aquifer parameters such as the storage coefficient, transmissivity, hydraulic conductivity, aquifer top and bottom elevations, and vertical conductance are all specified in an input file. In addition, files for wells, drains, evapotranspiration effects, and recharge can be created if needed.

6.2.3 Postmod

Version 2.1 of a postprocessor called Postmod was used to convert output data from Modflow to a readable file. Postmod can create head and drawdown files that are format-free x-y-z tables, in which x and y are node coordinates and z is the dependent variable. These files may be used as input to a graphics package to create contour maps or three-dimensional surface plots. Also, the x-y-z files can be written in a format compatible with Lotus 123 spreadsheet software so that simulated heads and drawdowns can be compared to observed heads and drawdowns as a means of calibrating the groundwater model.

6.3. Configuration of the Cross-Section

6.3.1 Model Layer

The vertical cross-section was represented as a confined, two-dimensional groundwater flow system in a vertical plane with a unit thickness, i.e., a one-layer model was specified that was one foot thick. The ends of the layer represented the ends of the cross-section. Across the layer, the five hydrologic units in the groundwater flow system were represented by varying the aquifer parameters and boundary conditions. Since the section being modeled was only one foot thick, values representing physically correct magnitudes for hydraulic conductivity were used in the model in places where transmissivity values were

called for. The flow system in the cross-section was assumed to be at steady-state throughout the entire layer.

6.3.2 Finite-Difference Grid

The finite-difference grid consisted of 41 columns and 44 rows, which resulted in a total of 1,804 nodes (see Figure 6-1). The rows of the grid were horizontal, and the columns were vertical. The rows and columns were both equally spaced, with each row 10 feet apart and each column 1,000 feet apart.

6.3.3 Boundary Conditions

Boundary conditions for the vertical cross-section were established to represent hydrologic boundaries along the sides, top, and bottom of the cross-section (see Figure 6-1). Constant head boundaries were located at the ends of the grid to match the observed equipotential lines in the surficial, intermediate, and Upper Floridan aquifers. It was assumed that heads could be distributed linearly across the upper and lower confining units. A constant head boundary was located along the top of the cross-section to represent the water table in the surficial aquifer. Based on the observed water table (Figure 5-10), average heads were determined for each of the 44 nodes that represented the water table in the model. In total, constant heads were assigned at 124 nodes. A no-flow boundary, or streamline, was assumed to exist along the bottom of the vertical section. This represented the deepest extent of flow in the Upper Floridan aquifer due to recharge occurring within the vertical cross-section. Within the grid delineated by the constant head boundaries, heads were simulated at 1,732 active nodes.

6.3.4 Pumping Effects

A line sink consisting of 24 wells distributed vertically was used to represent pumping from the Upper Floridan aquifer at the Gold Head sand mine (see Figure 6-1). The consumptive use permit for these wells allows an average

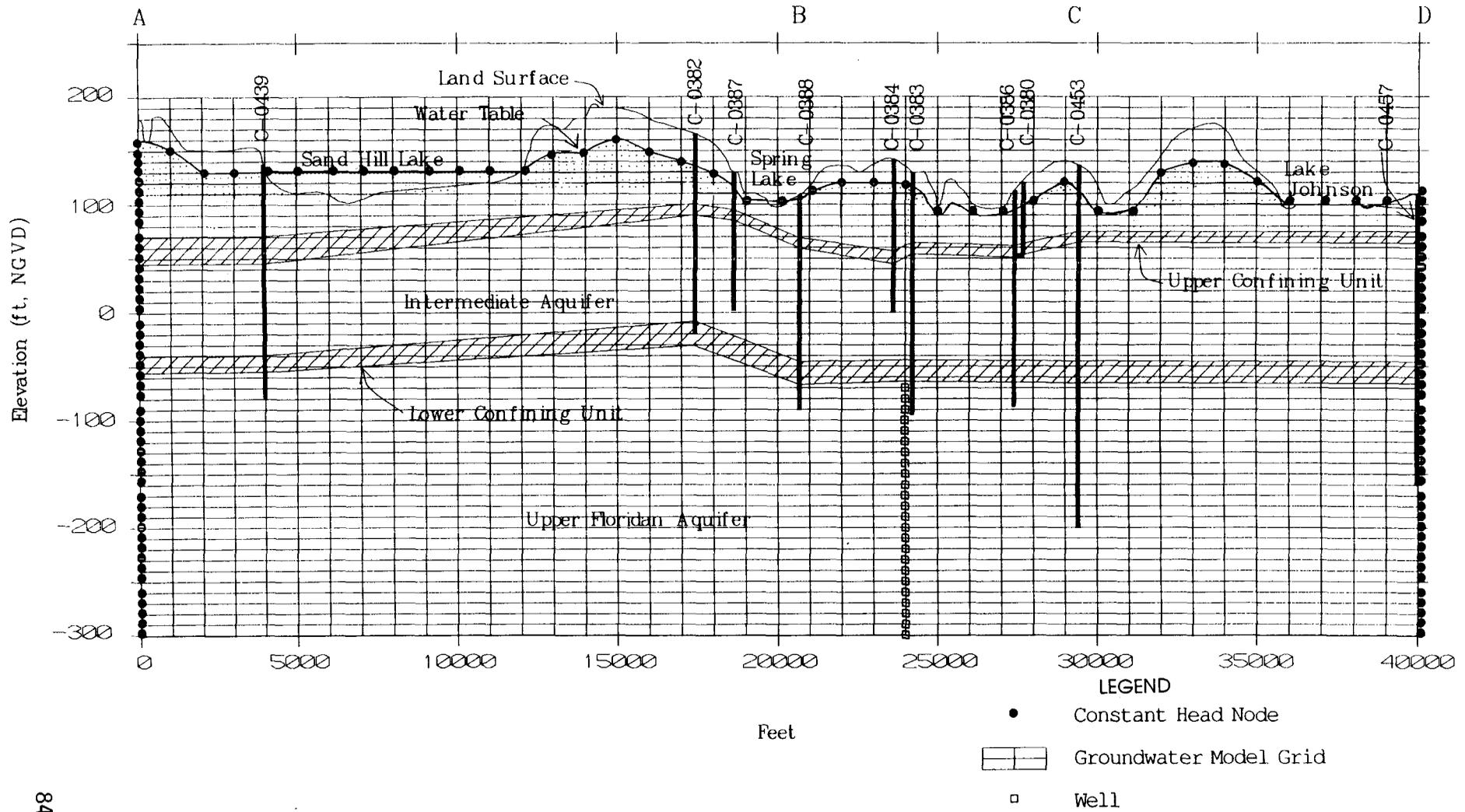


Figure 6-1. Vertical Cross-Section with Grid Overlay, Constant-Head Boundaries, and Well Locations

pumping rate of 2.09 mgd, or 279,000 ft³/day. The wells are located approximately 2,000 ft north of the cross-section, however (see Figure 5-7), and derive their water from all directions and not just from the cross-section, which conceptually is only 1 foot thick. The drawdown in the Upper Floridan aquifer at a distance of 2,000 ft due to these wells pumping 279,000 ft³/day is approximately 0.35 ft, based on using the Jacob (1946) steady-state leaky aquifer equation and a transmissivity of 497,000 ft²/day and a leakance of $6.59 \times 10^{-5} \text{ day}^{-1}$ (Motz, 1989). The influence of these wells along the cross-section was represented by adjusting the total pumping rate of the line sink until the drawdown in the Upper Floridan aquifer at the line sink was equal to the projected drawdown due to the wells located 2,000 ft from the line sink. A total pumping rate from the line sink equal to 15.1 ft³/day resulted in a drawdown of 0.35 ft in the Upper Floridan aquifer in the cells where the line sink is located and also in drawdown effects that were evident for several thousands of feet in both directions along the cross-section. Thus, the line sink is considered to be an accurate representation of the drawdown effects along the cross-section due to pumping at the Gold Head sand mine.

6.4 Calibration

6.4.1 Starting Values for Hydraulic Conductivity

To calibrate the groundwater model, different values of hydraulic conductivity were assigned to the grid cells representing the hydrologic units in the cross-section. Starting values for hydraulic conductivity in the three aquifer units were based on the results of the slug tests (see Table 5-5) and on transmissivity values determined from the pumping tests in the UECB (Motz, 1989; and Missimer & Associates, 1991) and on values reported in the literature (Andrews, 1990; Brown, 1984; and Ross and Munch, 1980). The starting hydraulic conductivity values for the surficial, intermediate, and Upper Floridan aquifers were

20, 40, and 2,000 ft/day, respectively. The starting hydraulic conductivity values for the confining units were based on leakance values determined from the pumping tests in the UECB and on estimates based on leakage calculations for lakes in the UECB (Motz et al., 1991a and 1991b). These values were 2.0×10^{-2} ft/day for the upper confining unit and 5.0×10^{-3} ft/day for the lower confining unit.

6.4.2 Results

The calibration of the groundwater model was a trial-and-error process in which the hydraulic conductivities were varied from the starting values in order to minimize the differences between the heads simulated by Modflow and the observed heads. The comparison of the simulated and observed hydraulic heads was performed by constructing an identical 41 column by 44 row array of the observed heads and comparing the differences between the simulated and observed heads at the 1,732 active nodes using a Lotus 123 spreadsheet. The differences were analyzed by comparing the mean and standard deviation of the differences between the simulated and observed heads. The goal of the calibration was to produce a cross-section with physically realistic hydraulic conductivities that minimized the mean and standard deviation of the differences between the simulated and observed heads.

The simulated hydraulic heads matched the observed heads very closely (compare Figures 5-10 and 6-2). The final mean of the differences between the simulated and observed heads was 0.00 ft, and the final standard deviation of the differences was 0.76 ft. The hydraulic conductivities of the surficial, intermediate, and Upper Floridan aquifers in the simulation were 25, 125, and 1,650 ft/day, respectively. The hydraulic conductivity of the upper confining unit ranged from 6.3×10^{-4} ft/day in the part of the cross-section northwest of Sand Hill Lake to 1.3×10^{-3} ft/day in the rest of the cross-section. The hydraulic

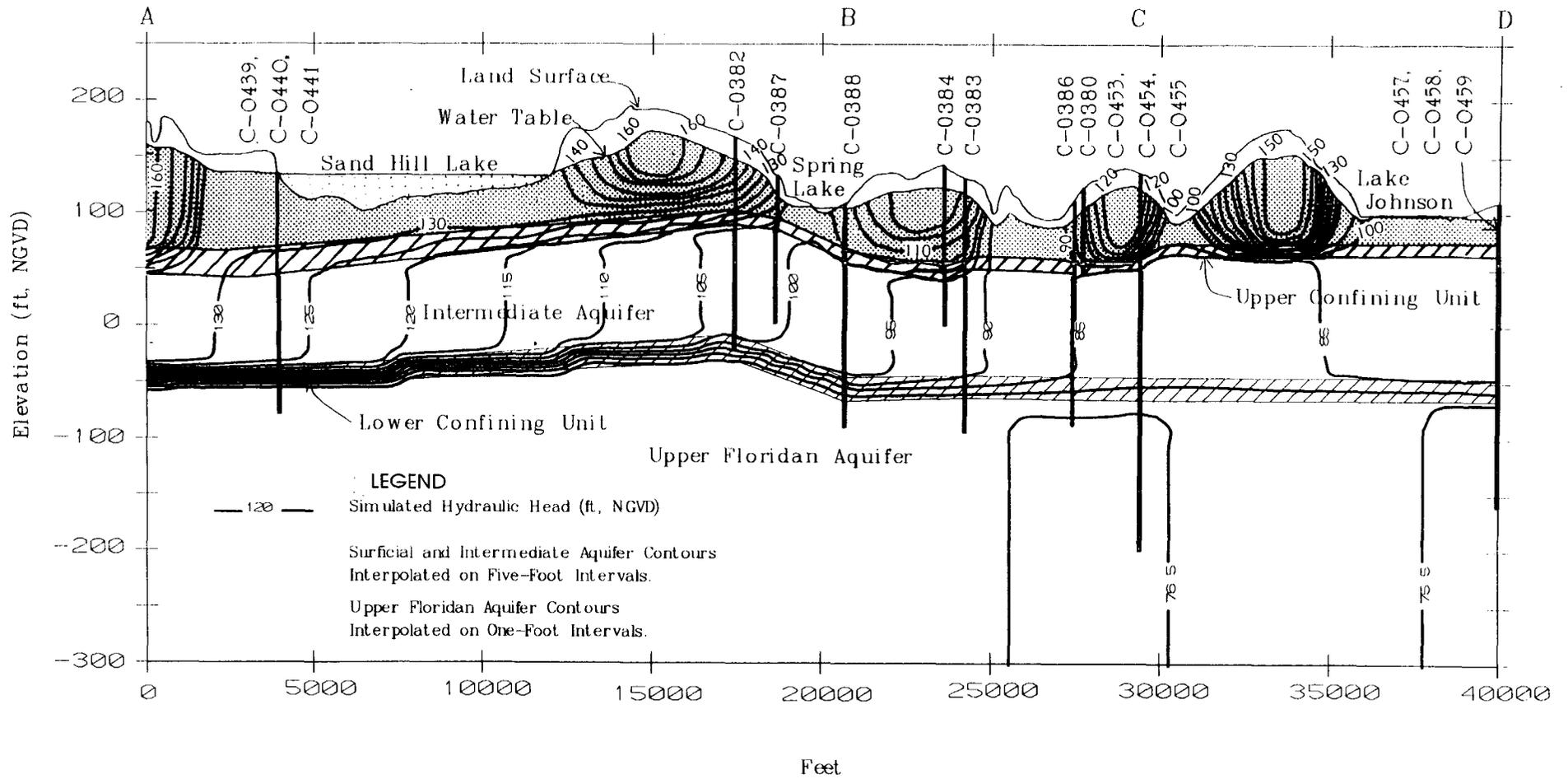


Figure 6-2. Simulated Hydraulic Heads Along Vertical Cross-Section

conductivity of the lower confining unit ranged from 2.0×10^{-4} ft/day northwest of Sand Hill Lake to 2.2×10^{-2} ft/day in the vicinity of the Gold Head well (C-0453). The hydraulic conductivity was equal to an intermediate value of 3.2×10^{-3} ft/day in the vicinity of the McRae well (C-0457).

The hydraulic conductivity values determined for the surficial and intermediate aquifers (25 and 125 ft/day, respectively) are considerably greater than the values determined from the slug tests (see Table 5-5), but this is not an unexpected result, based on Motz et al., 1991c. Also, the hydraulic conductivity of the intermediate aquifer was slightly greater than expected and the hydraulic conductivity of the upper confining unit was less than expected, based on the starting values. However, the final hydraulic conductivity values in the simulation are all within physically realistic limits, and, in combination with each other and the simulated pumping effects, resulted in a very accurate simulation of hydraulic heads in the vertical cross-section.

6.4.3 Sensitivity Analysis

A sensitivity analysis was run to investigate whether changing the values of hydraulic conductivity and the line sink pumping rate would improve the calibration by reducing the mean and/or standard deviation of the differences between the simulated and observed heads (see Table 6-1). The hydraulic conductivities in one unit at a time and the line sink pumping rate were multiplied by 0.5 and then 2.0, the computer model was rerun each time, and new means and standard deviations were calculated. No improvement in the calibration could be obtained by changing the hydraulic conductivity values or by changing the line sink pumping rate. Also, the results indicate that the calibration is insensitive to changes in the hydraulic conductivity of the surficial aquifer.

Table 6-1. Results of Sensitivity Analysis

Unit	Factor = 0.5X			Factor = 2.0X		
	K (ft/day)	Mean	Standard Deviation	K (ft/day)	Mean	Standard Deviation
Surficial Aquifer	12.5	0.00	0.76	50	0.00	0.76
Upper Confining Unit	3.2×10^{-4} - 6.3×10^{-4}	-0.91	1.80	1.3×10^{-3} - 2.5×10^{-3}	+1.33	2.02
Intermediate Aquifer	62.5	-0.06	0.85	250	+0.22	0.91
Lower Confining Unit	1.0×10^{-4} - 1.6×10^{-2}	+0.81	1.87	4.0×10^{-4} - 6.4×10^{-2}	-0.78	2.18
Upper Floridan Aquifer	825	+0.51	0.83	3,300	-0.27	0.78
Line Sink Pumping Rate (ft ³ /day)	7.55	+0.07	0.77	30.2	-0.14	0.77

6.4.4 Transmissivity and Leakance

Transmissivities for the aquifer units and leakances for the confining units were estimated, based on the hydraulic conductivities determined in the simulation and on the thicknesses of these units along the vertical cross-section. Based on an aquifer thickness of approximately 25 ft and the hydraulic conductivity of 25 ft/day, the transmissivity of the surficial aquifer is 625 ft²/day. Based on a thickness of approximately 90 ft and a simulated hydraulic conductivity of 125 ft/day, the transmissivity of the intermediate aquifer is 11,250 ft²/day. The thickness of the Upper Floridan aquifer in the simulation was approximately 250 ft, and its simulated hydraulic conductivity was 1,650 ft/day. Thus, the transmissivity of the Upper Floridan aquifer in the simulation is 413,000 ft²/day.

The vertical leakance of the upper confining unit ranges from 2.1×10^{-5}

day⁻¹, based on the hydraulic conductivity of 6.3×10^{-4} ft/day and a corresponding estimated thickness of 30 ft, to 1.3×10^{-4} day⁻¹, based on the hydraulic conductivity of 1.3×10^{-3} ft/day and a thickness of 10 ft. The leakance of the lower confining unit ranges from 1.0×10^{-5} day⁻¹ northwest of Sand Hill Lake, based on a hydraulic conductivity of 2.0×10^{-4} ft/day and a thickness of 20 ft, to 1.1×10^{-3} day⁻¹ in the vicinity of the Gold Head well (C-0453), based on a hydraulic conductivity of 2.2×10^{-2} ft/day and a thickness of 20 ft. The leakance of the lower confining unit is 1.6×10^{-4} day⁻¹ in the vicinity of the McRae well (C-0457), based on a hydraulic conductivity of 3.2×10^{-3} day⁻¹ and a thickness of 20 ft.

The transmissivity value of 413,000 ft²/day for the Upper Floridan aquifer is intermediate to the approximate range of 80,500 to 132,000 ft²/day reported by Yobbi and Chappell (1979) and the value on the order of 500,000 ft²/day reported by Missimer and Associates (1991) and Motz (1989). The range of leakance for the lower confining unit (1.0×10^{-5} to 1.1×10^{-3} day⁻¹) is consistent with the approximate range of 3.14×10^{-4} to 1.34×10^{-3} day⁻¹ reported by Yobbi and Chappell (1979) and the values of 6.59×10^{-5} and 1.74×10^{-3} day⁻¹ reported by Motz (1989) and Missimer and Associates (1991), respectively. Thus, the calibration parameters that resulted from the numerical simulation are consistent with previously reported pumping test results.

7.0 COMPILATION OF DATA FOR LAKE-STAGE SIMULATIONS

7.1 Sources of Data

Surface-water and meteorological data were compiled for lake-stage simulations from sources that included the USGS CD-ROM data-base, water resource publications for the state of Florida, and SJRWMD. Surface-water and groundwater data were assembled to conduct detailed analyses for Sand Hill Lake, Magnolia Lake, Brooklyn Lake, and Lake Geneva, including the water-budget analyses and lake-stage simulations described in Chapter 8. Sufficiently detailed data were found to be available from 1965 to the present.

7.2 Lake-Stage Records

Lake-stage records from 1965 were obtained from publications and SJRWMD files for Sand Hill Lake, Magnolia Lake, Brooklyn Lake, and Lake Geneva (see Figure 7-1). Also, bi-monthly records were obtained for Blue Pond for 1959 to 1967. However, these records were not sufficient to complete an in-depth analysis of Blue Pond. No lake-stage records are available for Lake Keystone, Oldfield Pond, or Halfmoon Lake, so therefore no analyses could be performed on these lakes.

Statistics were compiled for the stage records of the Upper Etonia Creek chain of lakes (see Table 7-1). Blue Pond has a maximum recorded stage of 174.45 ft, NGVD, and a minimum stage of 172.68 ft, NGVD, for a range of only 1.77 ft. Sand Hill Lake has a maximum recorded stage of 132.73 ft, NGVD, and a minimum stage of 129.42 ft, NGVD, for a range of 3.31 ft. Both Blue Pond and Sand Hill Lake are considered to be very stable lakes (Motz et al., 1991a). Surface outflow occurs from both of these lakes more than 95 percent of the time.

Magnolia Lake has fluctuated 7.87 ft between its maximum and minimum recorded stages. Magnolia Lake is also considered to be a stable lake (Motz et al., 1991a). At lower stages, it does not discharge into Brooklyn Lake. From

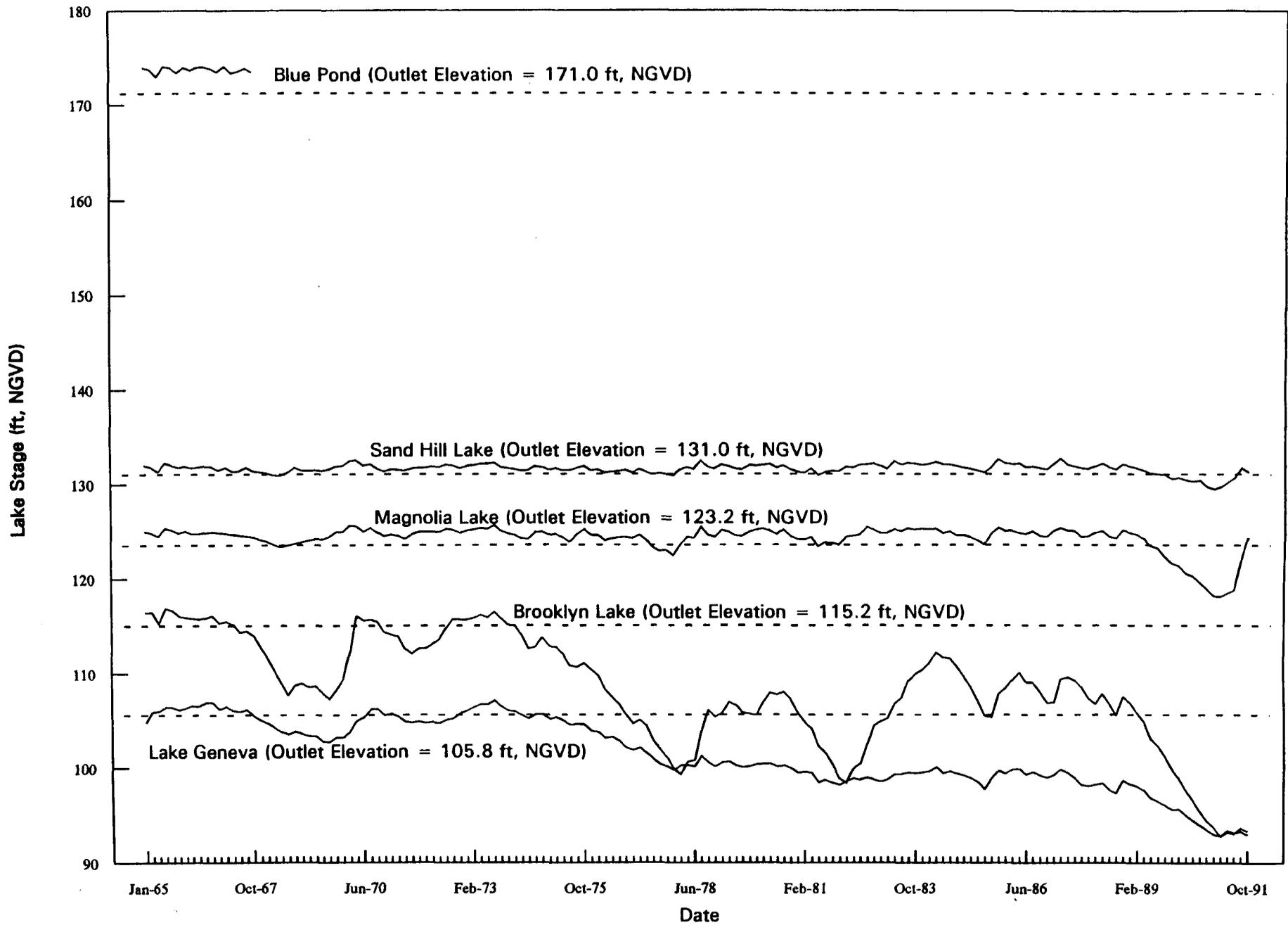


Figure 7-1. Lake-Stage Records for Selected Lakes in the UECB for 1965-1991

Table 7-1. Statistics for Lake Stages for UECB Chain of Lakes

Lake	Period of Record	Stages (ft, NGVD)				Range (ft)
		Maximum	(Date)	Minimum	(Date)	
Blue Pond	1959-67	174.45	(06/59)	172.68	(11/62)	1.77
Sand Hill	1957-91	132.73	(09/64)	129.42	(01/91)	3.31
Magnolia	1960-91	125.91	(09/73)	118.04	(04/91)	7.87
Brooklyn	1957-91	117.43	(10/60)	91.74	(04/91)	24.56
Geneva	1957-91	107.23	(07/73)	92.89	(02/91)	14.34

1989 to 1991, Magnolia Lake declined to a record low stage of 118.04 ft, NGVD. However, in response to rainfall during the summer of 1991, the stage of Magnolia Lake increased to greater than 124 ft, NGVD.

Brooklyn Lake is considered to be a highly unstable lake due to a fluctuation of 24.56 ft over its period of record (Motz et al., 1991a). Brooklyn Lake has not received surface-water inflow from Magnolia Lake since 1989 and has not discharged surface-water outflow to Lake Keystone since 1974. From 1989 to 1991, Brooklyn Lake declined to a record low of 91.74 ft, NGVD. The rainfall during the summer of 1991 halted this decline, but the stage of the lake did not increase significantly.

Lake Geneva has fluctuated 14.34 ft over its period of record and is considered to be a less stable lake (Motz et al., 1991a). Like Brooklyn Lake, Lake Geneva declined to a record low stage over the two year period from 1989 to 1991, but the stage leveled off in response to rainfall in the summer of 1991.

7.3 Physical Characteristics of the Lakes

7.3.1 Stage-Area and Stage-Volume Relationships

Bathymetric maps of the Upper Etonia Creek chain of lakes (Clark et al., 1963) were utilized to generate stage-area and stage-volume relationships for each lake. The first step involved digitizing the depth contours on each map

into AutoCAD. Next, an AutoLISP program was written to download the data points for these contours into an ASCII file. These data points were then loaded into SURFER and edited to produce a computer model of the bathymetric maps (see Figures C-1 through C-5 in Appendix C). Using a utility program within SURFER, the stage-area and stage-volume relationships were calculated (see Figure 7-2). These relationships are:

Blue Pond:

$$\text{Area} = 3.96154H - 486.32 \quad (7-1)$$

$$\text{Volume} = 1.9808H^2 - 486.23H + 28,906 \quad (7-2)$$

Sand Hill Lake:

$$\text{Area} = 31.2621H - 2,826.02 \quad (7-3)$$

$$\text{Volume} = 15.6311H^2 - 2,826.02H + 120,747 \quad (7-4)$$

Magnolia Lake:

$$\text{Area} = 4.1846H - 313.58 \quad (7-5)$$

$$\text{Volume} = 2.0923H^2 - 313.58H + 11,902 \quad (7-6)$$

Brooklyn Lake:

$$\text{Area} = 20.93951H - 1,768.5 \quad (7-7)$$

$$\text{Volume} = 10.4698H^2 - 1,768.5H + 74,734 \quad (7-8)$$

Lake Geneva:

$$\text{Area} = 71.18H - 5,429.6 \quad (7-9)$$

$$\text{Volume} = 35.59H^2 - 5,429.6H + 206,700 \quad (7-10)$$

where H = lake stage (ft, NGVD).

7.3.2 Stage-Discharge Relationships

Discharge from each lake in the Upper Etonia Creek chain travels through Alligator Creek as surface-water flow. To quantify this term, a stage-discharge relationship for each lake was developed using the Manning uniform flow equation. For uniform flow conditions to occur, the depth, cross-sectional area, velocity,

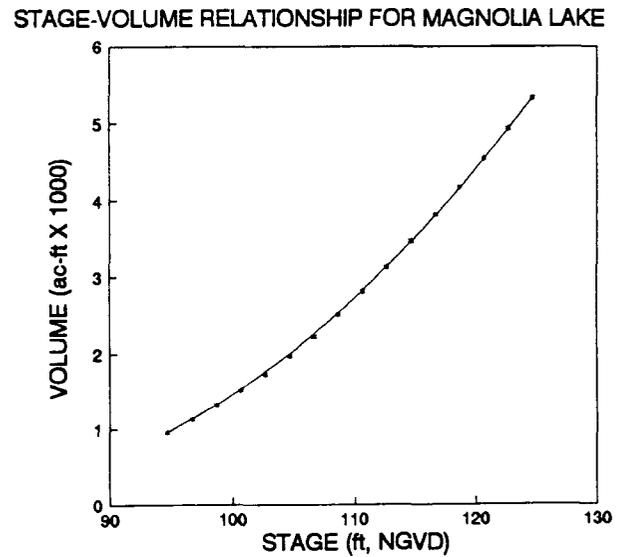
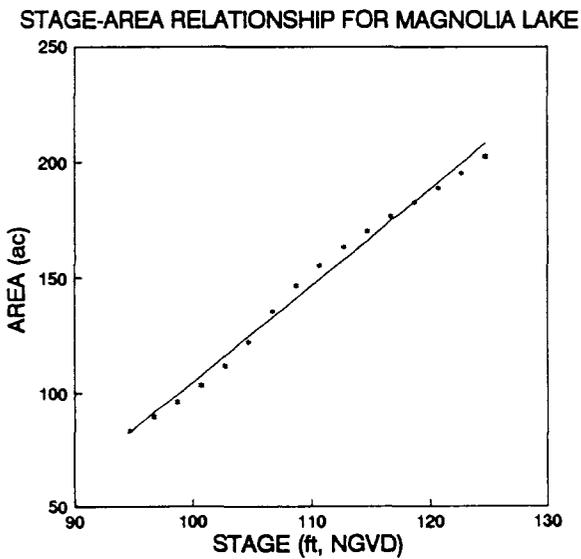
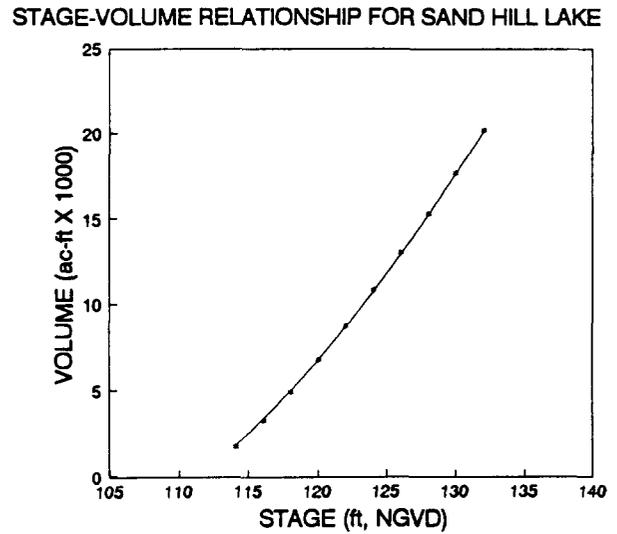
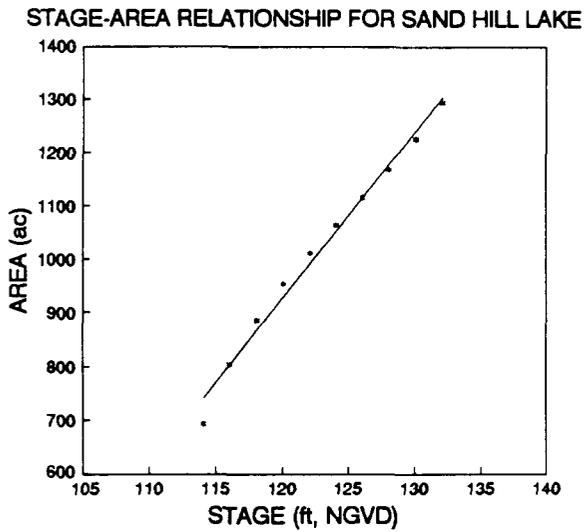
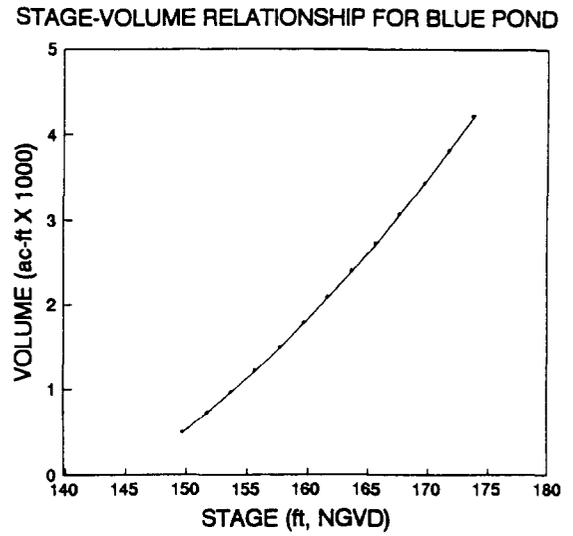
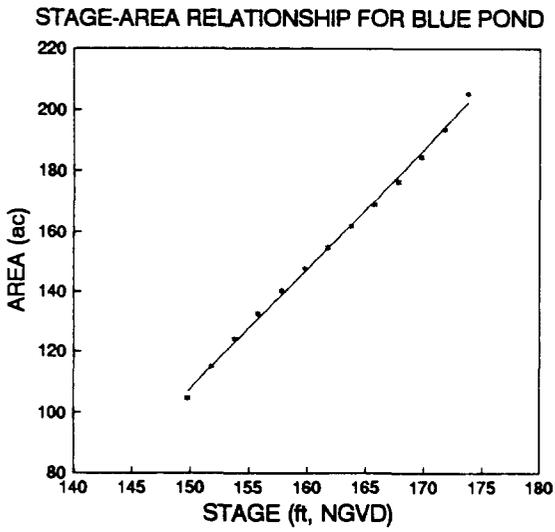


Figure 7-2. Stage-Area and Stage-Volume Relationships for Selected Lakes

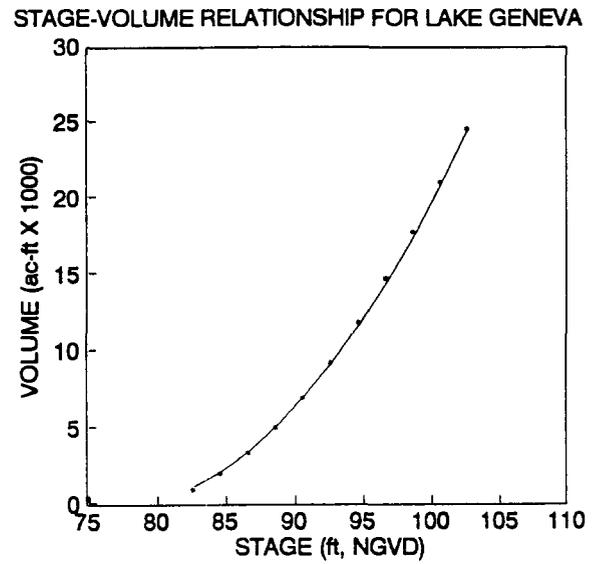
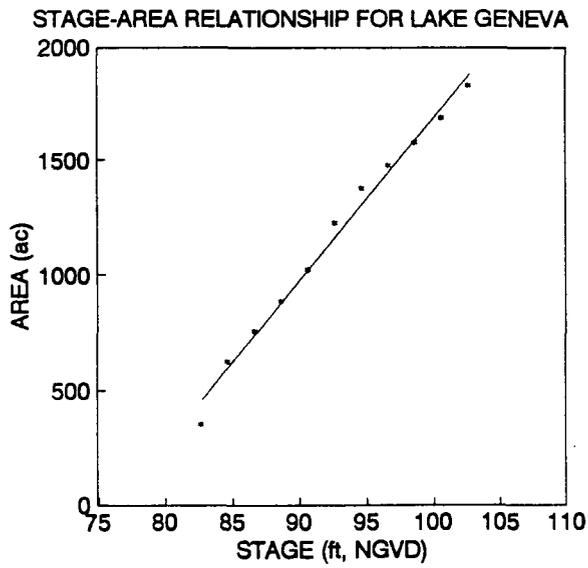
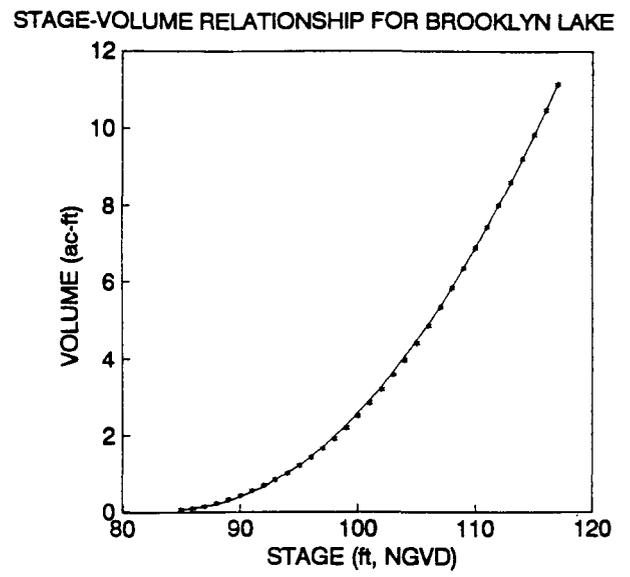
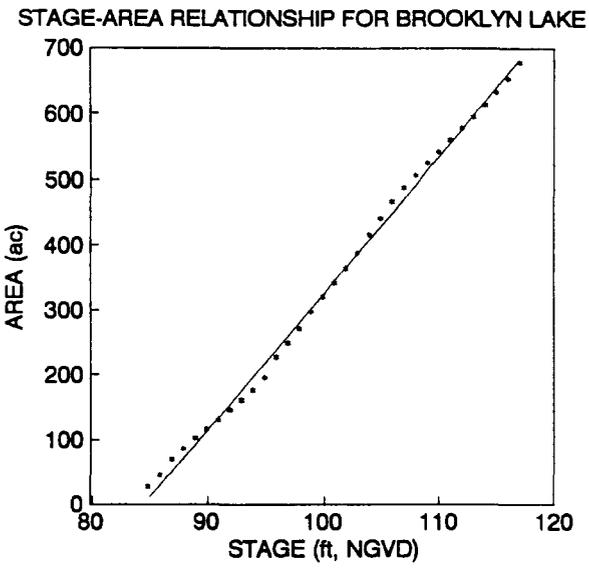


Figure 7-2. Stage-Area and Stage-Volume Relationships for Selected Lakes, con'd.

and discharge at every section of the channel reach have to be constant, and the energy grade line, water surface, and channel bottom all have to be parallel. Although uniform flow rarely occurs in natural channels, results from this assumption are satisfactory for many practical problems (Chow, 1959). Uniform flow in an open channel can be described by the Manning equation:

$$Q = \frac{1.49}{n} A R^{2/3} S^{1/2} \quad (7-11)$$

where: A = cross-sectional area (ft²);
n = Manning's roughness coefficient;
Q = flow rate (cfs);
R = hydraulic radius (ft); and
S = channel slope.

Alligator Creek can be described as a minor natural stream that is clean and winding with some weeds and stones. Therefore, a value of 0.045 was chosen for the Manning roughness coefficient, based on Chow (1959). The slope of Alligator Creek between each lake in the chain was determined from a 1990 stream bed profile survey that was conducted by SJRWMD. The outlet elevation for each of the lakes also was determined using the profile survey. Based on this information and the geometry of the channel at the outlet of each lake, the stage-discharge relationship for each lake was calculated.

7.3.2.1 Blue Pond

The outlet elevation for Blue Pond is 171.0 ft, NGVD. Since lake-stage data are not recorded for this lake, a stage-discharge relationship could not be developed. However, Blue Pond is a very stable lake that has most likely discharged into Sand Hill Lake nearly 100 percent of the time. To obtain an estimate of the magnitude of the discharge, flow measurements were taken with a Kempton current meter on October 22, 1991. A flow rate of 2 cubic feet per second (cfs) was measured.

In addition to the discharge from Blue Pond, Sand Hill Lake receives surface-water inflow from springs located to the northeast of the lake. An inflow of 4 cfs was measured on October 22, 1991, from these springs.

7.3.2.2 Sand Hill Lake

The outlet elevation of Sand Hill Lake is 131.0 ft, NGVD. The maximum recorded stage for this lake is 132.73 ft, NGVD. Therefore, a stage-discharge relationship was developed for a stage range of 131.0 to 132.8 ft, NGVD.

The rectangular outlet channel has a width of 16 ft and a depth of up to 2 ft. The channel drops 5.6 ft over a distance of 2,310 ft for a slope of 0.0024. With this information, a stage-discharge relationship was developed. Various flow rates were input into the uniform flow equation, which was solved for normal depth, and a polynomial equation was fitted to the data. The relationship (see Figure 7-3) can be expressed as:

$$Q = C1 + (C2)(H) + (C3)(H^2) + (C4)(H^3) \quad (7-12)$$

for 131.0 ft < H < 132.8 ft,

where: C1 = 10,702,299.5067;
 C2 = -241,893.94511;
 C3 = 1,822.0827482; and
 C4 = -4.5740829615.

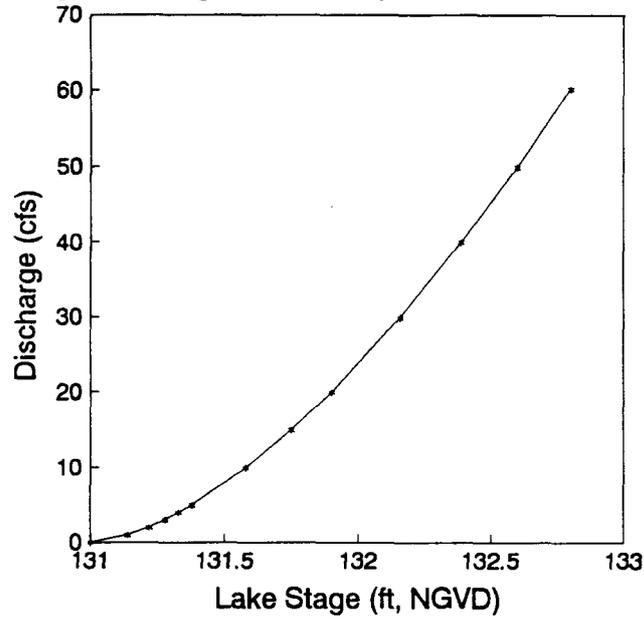
7.3.2.3 Magnolia Lake

The outlet elevation for Magnolia Lake is 123.2 ft, NGVD. Due to lack of data on the channel dimensions, a stage-discharge relationship for Magnolia Lake could not be generated using the same method that was applied to Sand Hill Lake. Instead, a stage-discharge relationship was developed based on a relationship derived by SJRWMD (personal communication, 1990) (see Figure 7-3). This relationship can be expressed as:

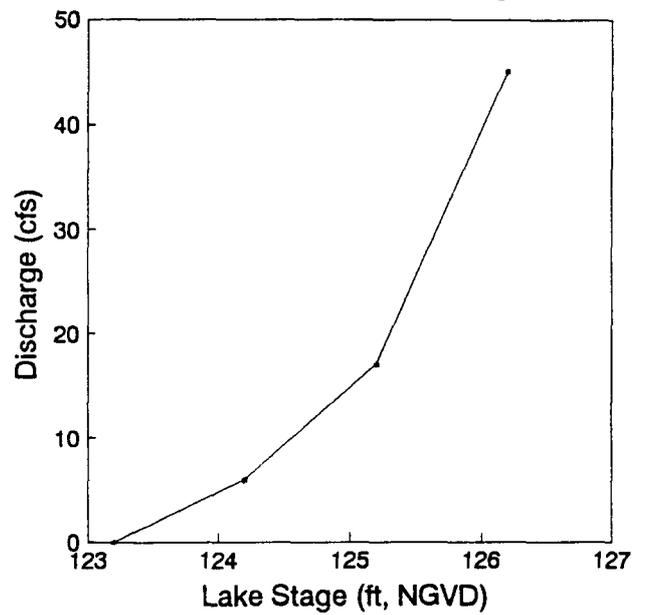
$$Q = C1 + (C2)(H) + (C3)(H^2) + (C4)(H^3) \quad (7-13)$$

for 123.2 ft < H < 126.2 ft,

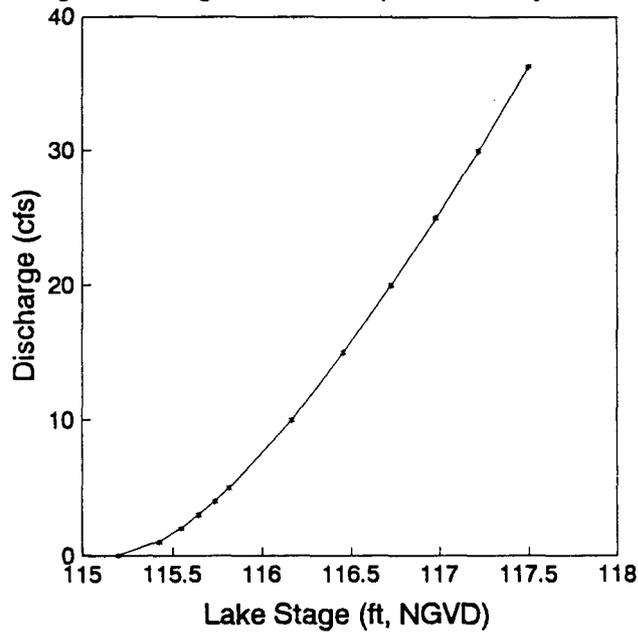
Stage-Discharge Relationship for Sand Hill Lake



Stage-Discharge Relationship for Magnolia Lake



Stage-Discharge Relationship for Brooklyn Lake



Stage-Discharge Relationship for Lake Geneva

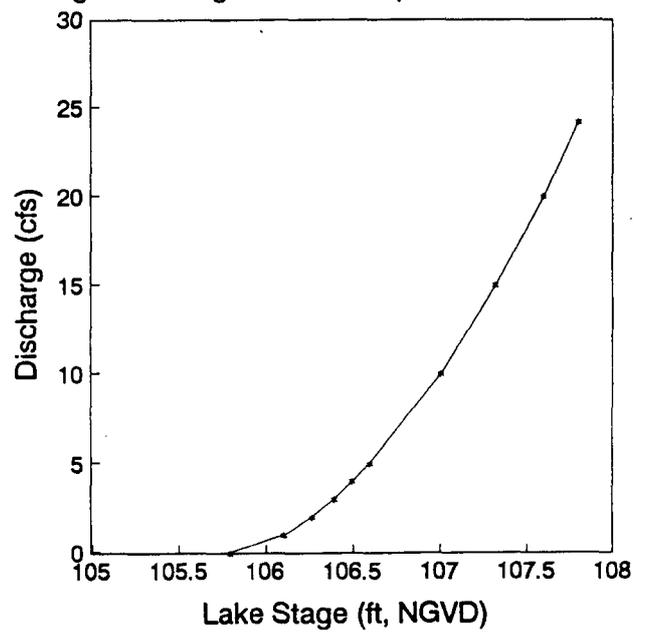


Figure 7-3. Stage-Discharge Relationships for Selected Lakes

where: C1 = -3,793,966.176;
C2 = 91,939.34;
C3 = -742.7; and
C4 = 2.0.

7.3.2.4 Brooklyn Lake

The outlet elevation for Brooklyn Lake is 115.2 ft, NGVD. The channel drops 7.5 ft over a distance of 5,000 ft for a slope of 0.0015. The outlet is a rectangular concrete culvert 8.5 ft wide and 3.5 ft high. A range of 115.2 to 117.5 ft, NGVD, was used for the relationship.

Discharge from Brooklyn Lake flows through Lake Keystone before it reaches Lake Geneva. Since lake-stage data for Lake Keystone have never been recorded, a stage-discharge relationship for Lake Keystone could not be developed. Also, since Lake Keystone is small, i.e., its surface area is only 34 acres when the lake is full, its storage capacity likely is small, and thus the discharge from Brooklyn Lake was input directly into Lake Geneva. Using the same method that was applied to Sand Hill Lake, a stage-discharge relationship for Brooklyn Lake was developed (see Figure 7-3). This relationship can be expressed as:

$$Q = C1 + (C2)(H) + (C3)(H^2) + (C4)(H^3) \quad (7-14)$$

for 115.2 ft < H < 117.5 ft,

where: C1 = 2,711,769.8158;
C2 = -69,513.292772;
C3 = 593.79369296; and
C4 = -1.6902525496.

7.3.2.5 Lake Geneva

The outlet elevation of Lake Geneva is 105.8 ft, NGVD. The channel drops 7.0 ft over a distance of approximately 3,600 ft towards Oldfield Pond for a slope of 0.0015. The trapezoidal channel has a bottom width of 5.0 ft and a side slope of 1. Using the method applied to Sand Hill Lake, a stage-discharge relationship for Lake Geneva was developed (see Figure 7-3). This relationship can be expressed as:

$$Q = C1 + (C2)(H) + (C3)(H^2) + (C4)(H^3) \quad (7-15)$$

for 105.8 ft < H < 107.8 ft,

where: C1 = 502,918.18547
C2 = -13624.8758815
C3 = 122.758146382; and
C4 = -0.3677459718.

7.4 Hydrologic Factors

7.4.1 Precipitation

Similar to patterns throughout Florida, rainfall in the UECB varies seasonally, with June through September considered the wet season, and October through May the dry season. Data from the Melrose gage for 1965 to 1969 were combined with data from the Gainesville gage for 1965 to 1990 to develop a data set to represent long-term precipitation for the UECB. Based on these two stations, the annual rainfall from 1965 to 1990 averaged 51.44 inches (see Figure 7-4). On the average, August was the wettest month, and October was the driest month during this period of record (see Figure 7-5). Approximately 50 percent of the annual precipitation occurs from June through September.

7.4.2 Evaporation

The Gainesville weather station, the closest station to the UECB that measures evaporation, records daily pan evaporation data using a Class A pan. The mean annual pan evaporation for 1965 to 1990 was 63.80 inches (see Figure 7-6). Evaporation varies seasonally, and on the average it is greatest in May and least in December (see Figure 7-7). The greatest amount of evaporation occurs during the five month period from April through August.

Pan evaporation is greater than actual lake evaporation because of the smaller size of the pan, boundary effects induced by heat transfer through the pan material, and wind effects caused by the pan (Bras, 1990). To account for this, a pan coefficient is applied to pan evaporation measurements to compute

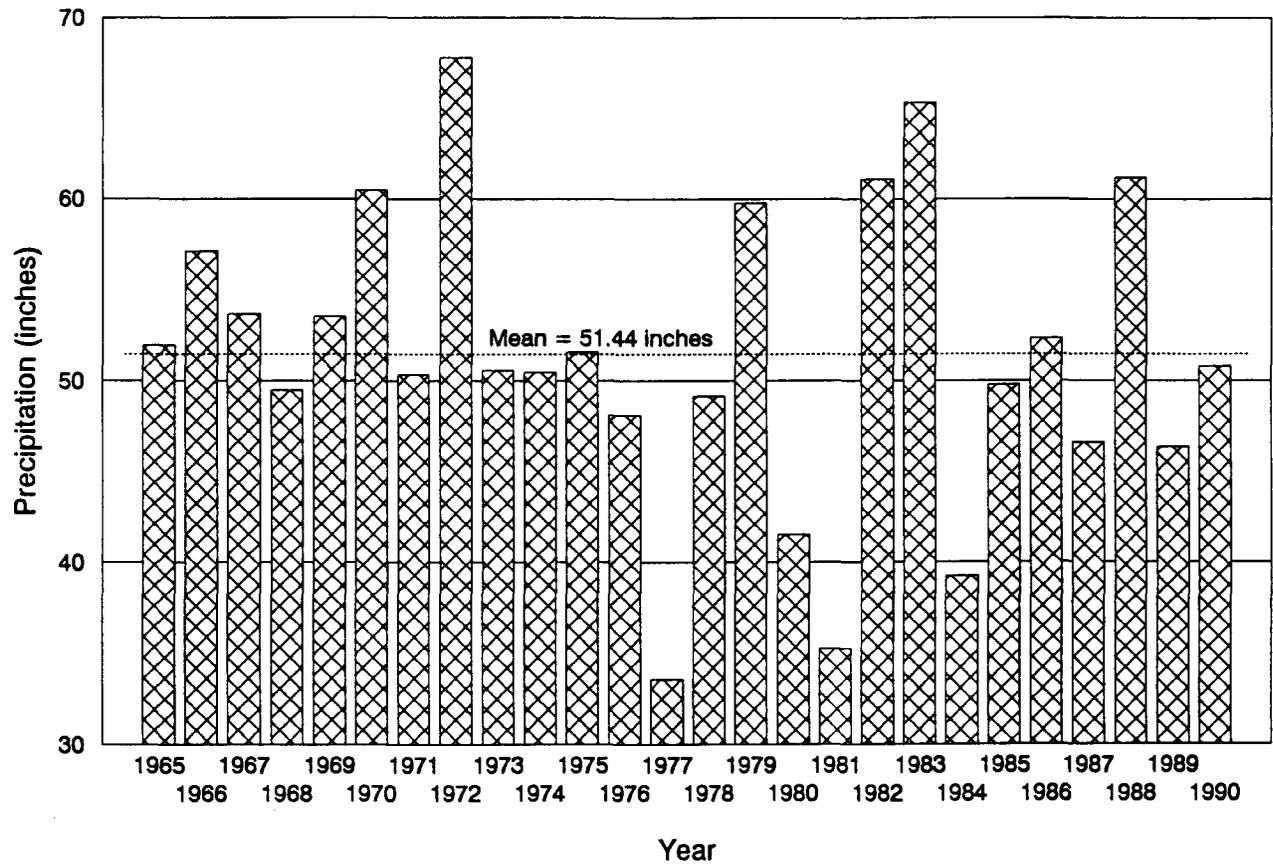


Figure 7-4. Annual Precipitation at Gainesville and Melrose from 1965 to 1990

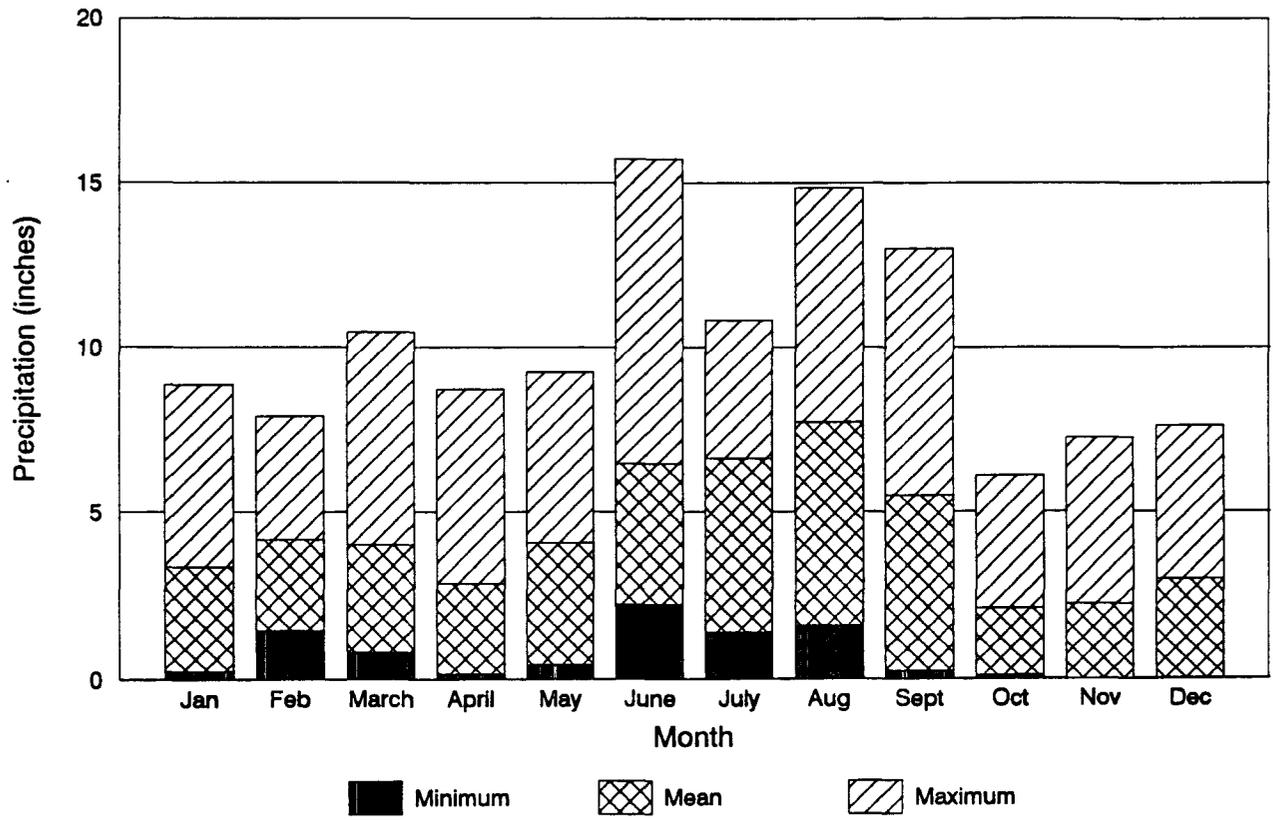


Figure 7-5. Average Monthly Precipitation at Gainesville and Melrose from 1965 to 1990

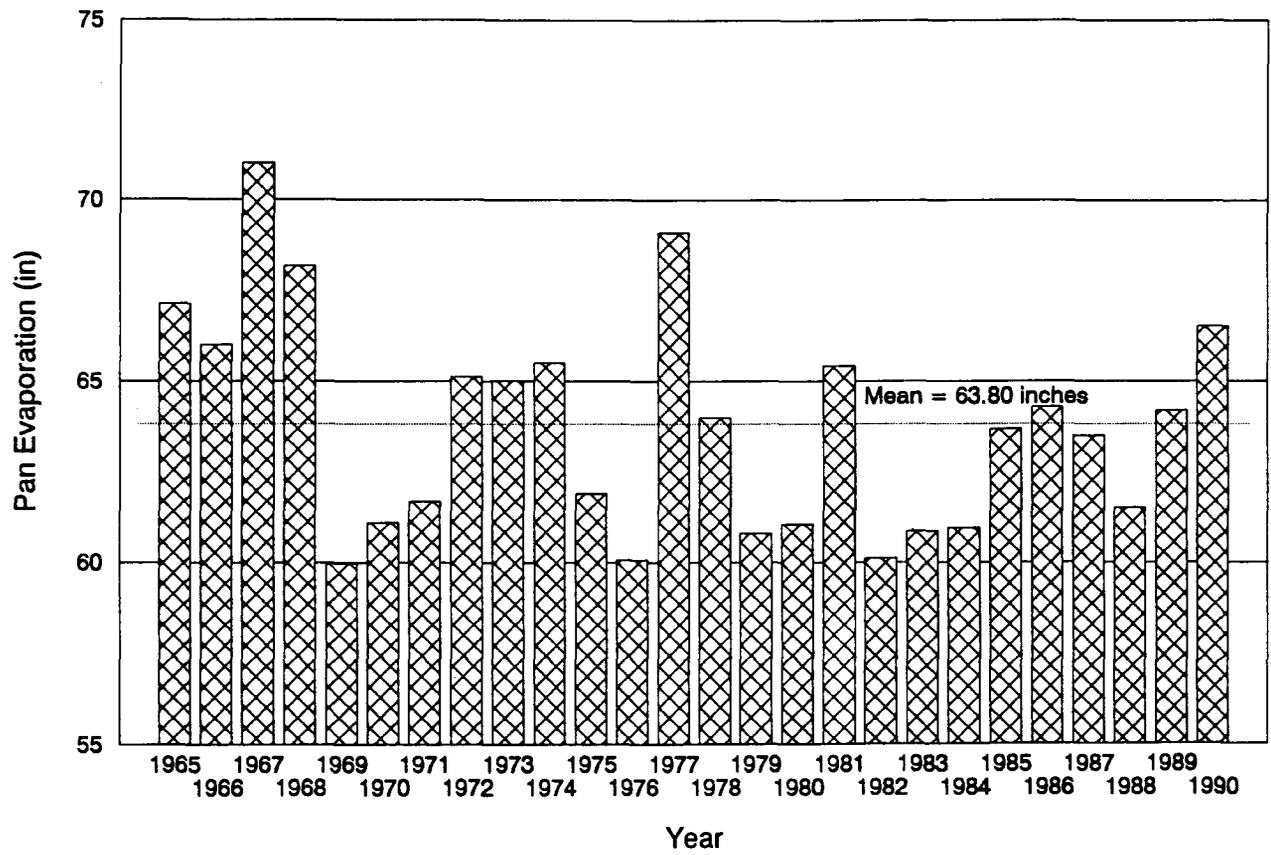


Figure 7-6. Annual Pan Evaporation at Gainesville from 1965 to 1990

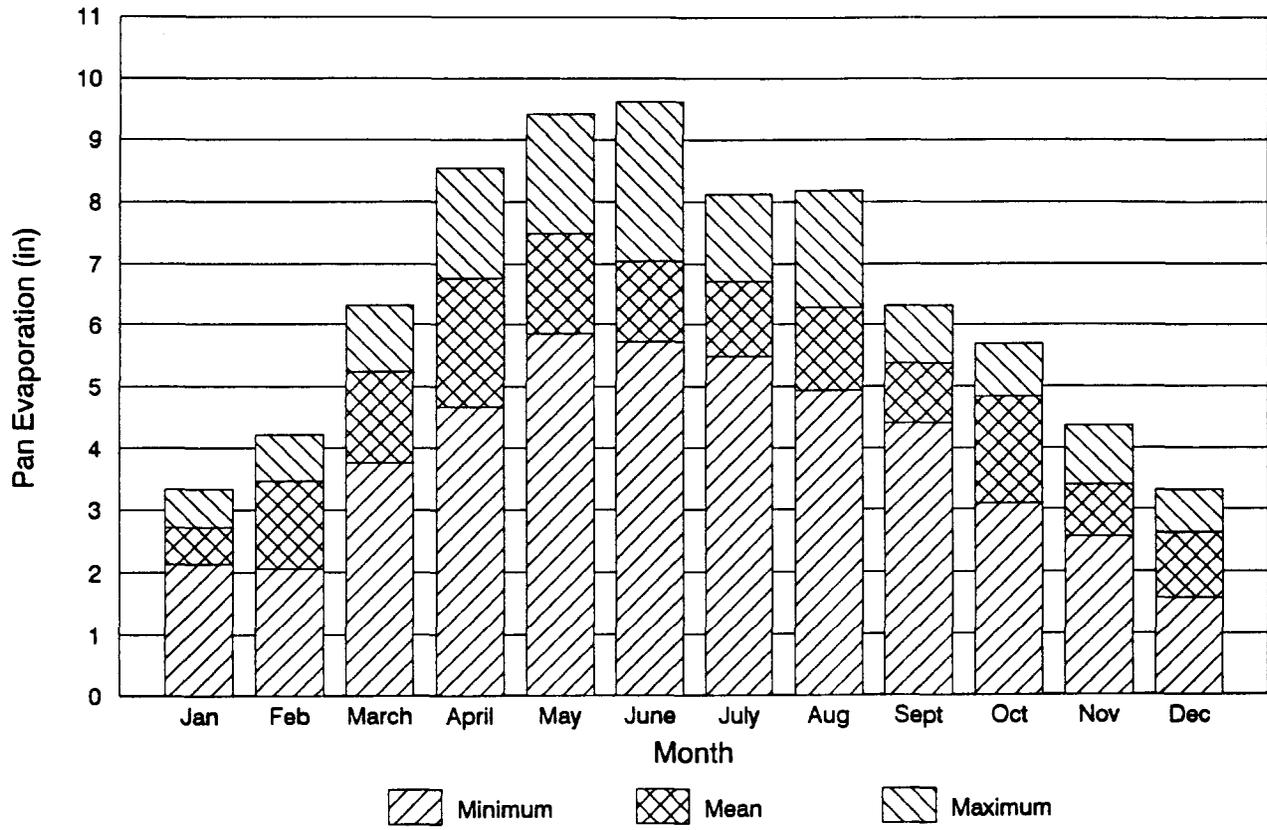


Figure 7-7. Average Monthly Evaporation at Gainesville from 1965 to 1990

actual lake evaporation. Pan coefficients were developed for the UECB based on monthly pan coefficients derived from a study conducted on Lake Okeechobee (Kohler, 1954). These values range from 0.69 for February to 0.91 for July and August (see Table 7-2), and the mean annual pan coefficient is 0.81.

7.4.3 Runoff

Precipitation that falls over the drainage area is primarily divided into infiltration and runoff. The rational method was used to estimate the amount of runoff from rainfall events. Based on this method, the volume of rainfall that will become runoff is:

$$V = C i A t \quad (7-16)$$

Table 7-2. Monthly Pan Coefficients for the UECB

Month	Pan Coefficient
January	0.77
February	0.69
March	0.73
April	0.84
May	0.82
June	0.85
July	0.91
August	0.91
September	0.85
October	0.76
November	0.71
December	0.83

Source: Based on Kohler, 1954.

where: A = area of drainage basin [L^2];
C = runoff coefficient;
i = rainfall intensity [LT^{-1}];
t = duration of rainfall [T]; and
V = runoff volume [L^3].

The runoff coefficient in the rational method estimates the fraction of rainfall that becomes runoff. The value of the runoff coefficient depends on land use and antecedent conditions such as soil moisture. The surficial deposits in the UECB are very porous and allow for relatively large infiltration rates. Also, the drainage areas of the lakes have not undergone extensive urbanization. Thus, runoff coefficients for the basins around the lakes are very low, and runoff coefficients of 0.01 were assumed for each of the UECB lake basins.

7.4.4 Groundwater Inflow and Outflow

Lakes can gain water from or lose water to the surficial aquifer system depending on the gradient of the surrounding water-table aquifer. To quantify these components, it would be necessary to map the potentiometric surface of the surficial aquifer around each lake and determine the hydraulic conductivity and thickness of the aquifer. This level of data was not available for this investigation, so these two components could not be calculated. However, based on computations by Clark et al. (1963), the groundwater inflow and groundwater outflow components for Brooklyn Lake comprised less than 10 percent of the water budget, and nearly all of the net groundwater outflow from the lake was vertical leakage through the Hawthorn Group to the Upper Floridan aquifer. It was assumed that this condition still applied at Brooklyn Lake and also could be applied at the other lakes as well.

7.4.5 Groundwater Levels

7.4.5.1 Long-Term Data

Long-term records for groundwater levels near the UECB chain of lakes are available for two wells adjacent to Brooklyn Lake. Wells C-0116 and C-0120 are

located on the north bank of Brooklyn Lake and have been recording water levels in the intermediate and Upper Floridan aquifers, respectively, since 1960. There is a strong linear correlation between the lake stage in Brooklyn Lake and the water levels measured in each aquifer (see Figure 7-8). Upward or downward trends in each aquifer's water level correspond to the same trends in the lake stage. The average head difference between the lake stage and the intermediate aquifer is 14.1 ft, and the average head difference between the intermediate aquifer and the Upper Floridan aquifer is 8.3 ft.

The data from these two wells are complete, except for a period from 1977 until 1989 when no measurements were recorded in well C-0116. To fill this gap in the data, the values from well C-0116 were regressed against the corresponding measurements in well C-0120 to determine the correlation between water levels in the two aquifers. The water-level data show a strong linear correlation between water levels in the intermediate and Upper Floridan aquifers at Brooklyn Lake (see Figure 7-9). From this correlation, the potentiometric head of the intermediate aquifer can be estimated from the potentiometric head of the Upper Floridan aquifer from:

$$H_i = 1.29H_F - 16.92 \quad (7-17)$$

where: H_F = potentiometric head of Floridan aquifer (ft, NGVD); and
 H_i = potentiometric head of intermediate aquifer (ft, NGVD).

The missing period of record for well C-0116 was filled in using Equation 7-17, and thus a complete time-series plot for the lake stage and the water levels in the intermediate and Floridan aquifers was generated (see Figure 7-10).

7.4.5.2 Short-Term Data

The short-term data from wells C-0436 and C-0437 at Lake Geneva were plotted along with the stage of Lake Geneva (see Figure 7-11). The lake stage and water levels in each aquifer show little or no change over the four month

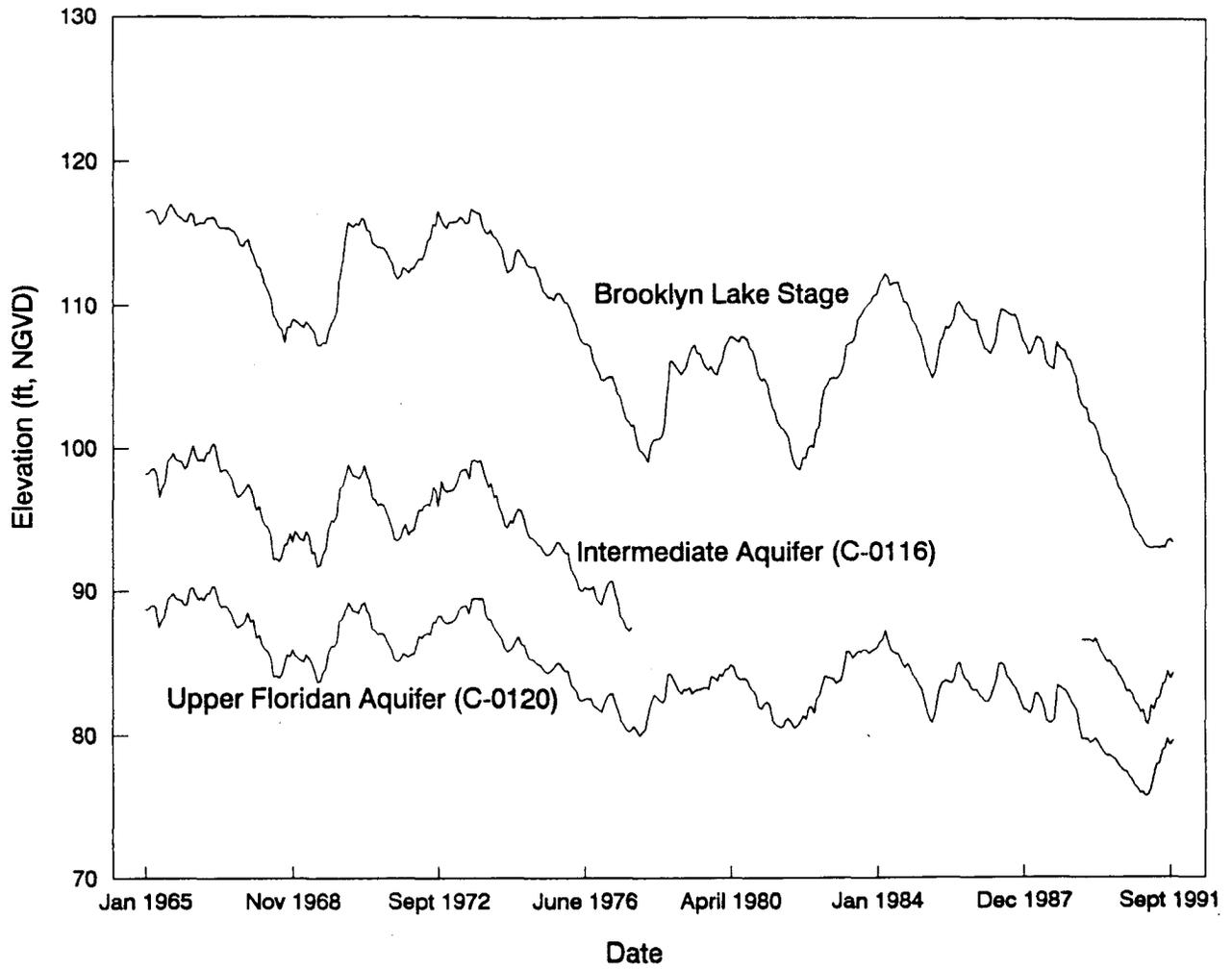


Figure 7-8. Measured Intermediate and Upper Floridan Aquifer Water Levels and Lake Stage at Brooklyn Lake for 1965-1991

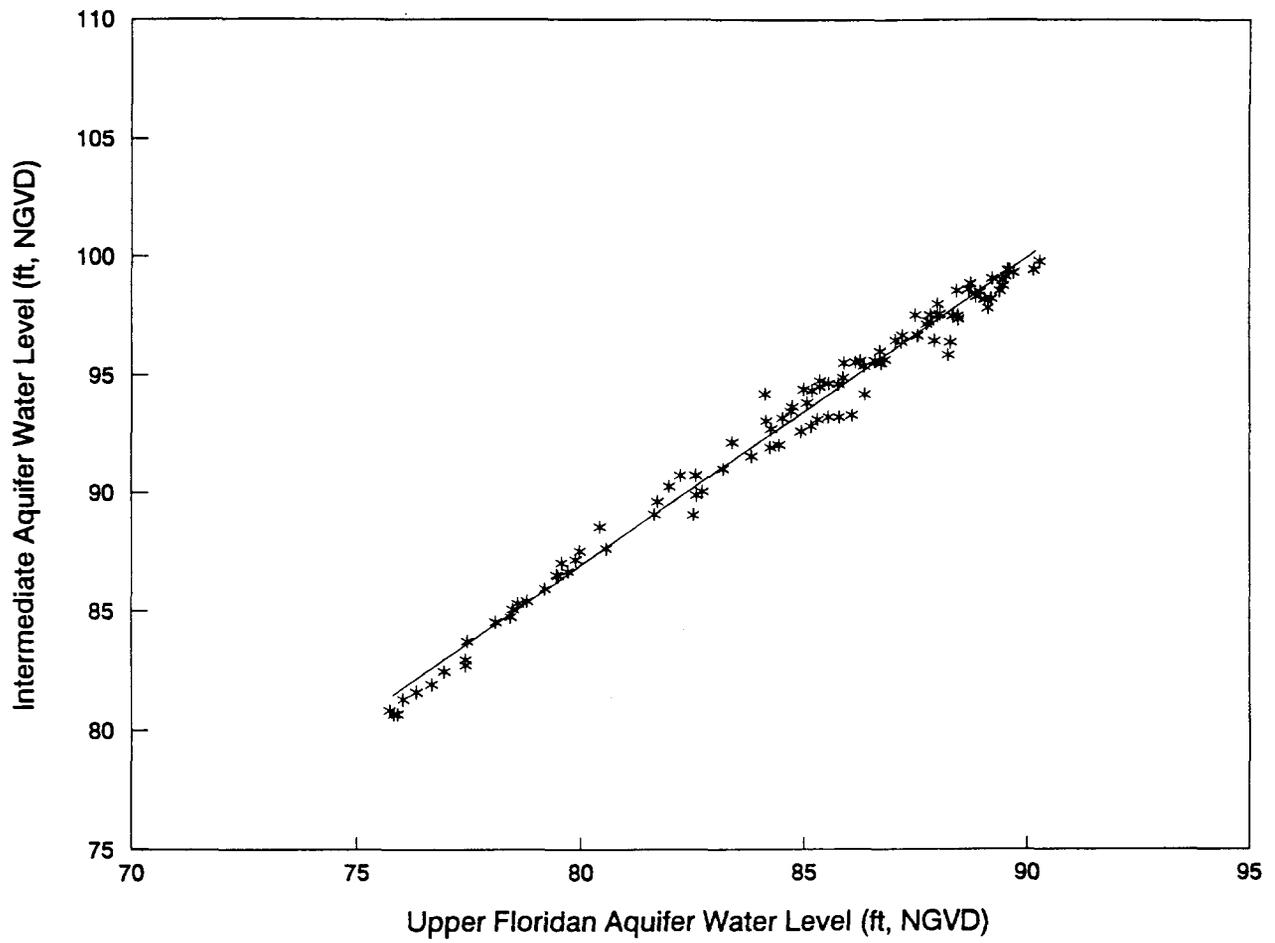


Figure 7-9. Correlation Between Intermediate and Upper Floridan Aquifer Water Levels at Brooklyn Lake for 1965-1991

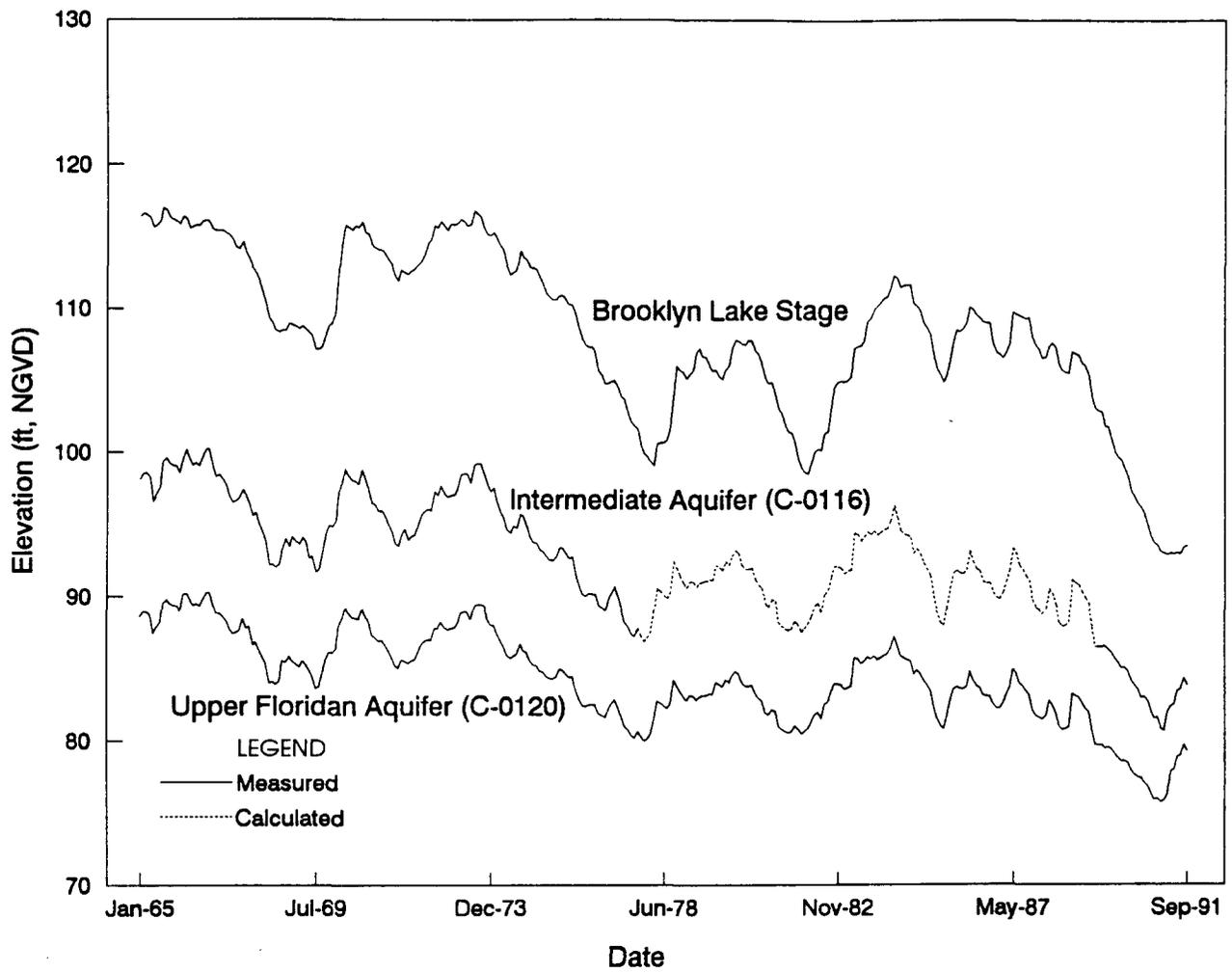


Figure 7-10. Calculated and Measured Intermediate and Upper Floridan Aquifer Water Levels and Lake Stage at Brooklyn Lake for 1965-1991

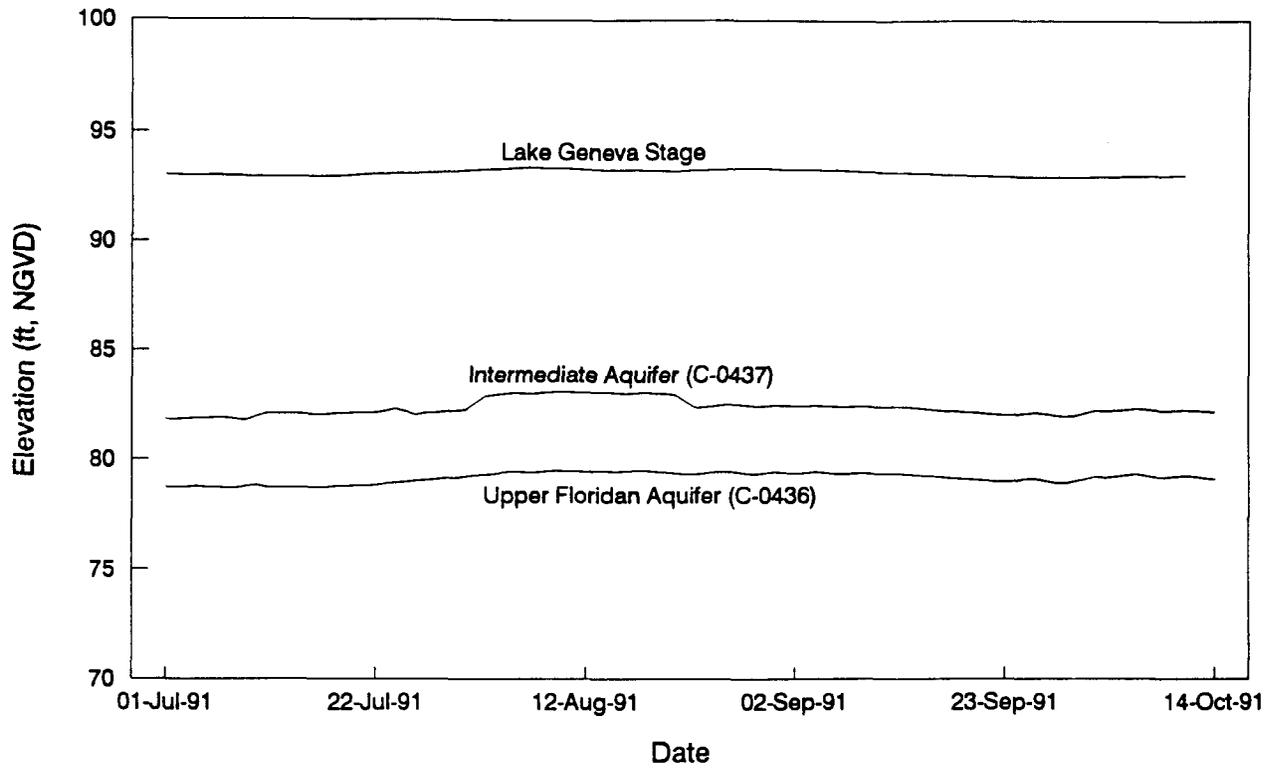


Figure 7-11. Measured Intermediate and Upper Floridan Aquifer Water Levels and Lake Stage at Lake Geneva in 1991

period of record. The head difference between the lake stage and the intermediate aquifer averages 10.7 ft, and the head difference between the intermediate aquifer and the Upper Floridan aquifer averages 3.2 ft.

Water levels for wells C-0439 and C-0440 at Sand Hill Lake were plotted along with the lake stage of Sand Hill Lake (see Figure 7-12). The lake stage shows the same slight upward trend as the water level in the Upper Floridan aquifer over the seven-month period. The water level in the intermediate aquifer seems to show a slight upward trend followed by a slight downward trend. The head difference between the lake stage and the intermediate aquifer averages 5.3 ft, and the head difference between the intermediate aquifer and the Upper Floridan aquifer averages 49.6 ft.

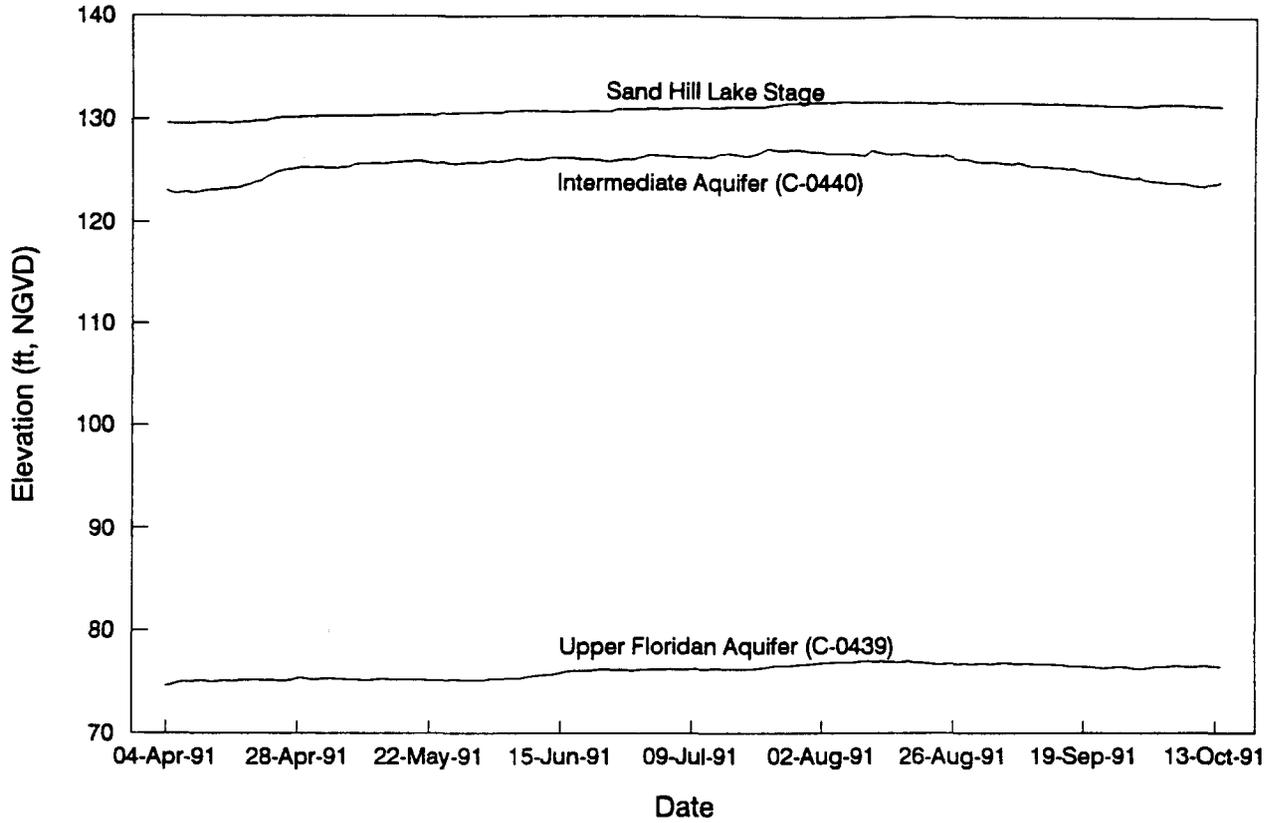


Figure 7-12. Measured Intermediate and Upper Floridan Aquifer Water Levels and Lake Stage at Sand Hill Lake in 1991

8.0 WATER-BUDGET ANALYSES AND LAKE-STAGE SIMULATIONS

8.1 Previous Investigations

A water budget for a lake generally consists of accounting for the principal inflows and outflows for the lake (see Figure 8-1). Precipitation, surface-water inflow, overland flow or runoff, and groundwater inflow from the surficial aquifer are the principal inflows. Evaporation, surface-water outflow, groundwater outflow to the surficial aquifer, and vertical leakage to underlying aquifers are the principal outflows. The water budget for such a lake can be described by:

$$dS/dt = P + I_s + R + I_g - E - O_s - O_g - L \quad (8-1)$$

where:

dS/dt	= change in storage [L^3T^{-1}];
E	= evaporation;
I_g	= groundwater inflow from the surficial aquifer;
I_s	= surface-water inflow;
L	= vertical leakage to the underlying aquifer;
O_g	= groundwater outflow to the surficial aquifer;
O_s	= surface-water outflow;
P	= precipitation; and
R	= overland flow or runoff.

Typically, lakes in the Highlands region of Florida gain water from the adjacent surficial aquifer and lose water to the underlying Upper Floridan aquifer by vertical leakage through the confining beds that separate the surficial aquifer from the Upper Floridan aquifer (Lichtler et al., 1976). Based on studies at Lake Lucerne in central Florida (Lee et al., 1991), the lakes can serve as focal points for groundwater discharge from the surficial aquifer and as focal points for recharge from the surficial aquifer to the Upper Floridan aquifer. This loss of water to the underlying Upper Floridan aquifer, or vertical leakage, can be estimated based on Darcy's equation (Hammett, 1981):

$$Q = A \frac{K'}{b'} dh \quad (8-2)$$

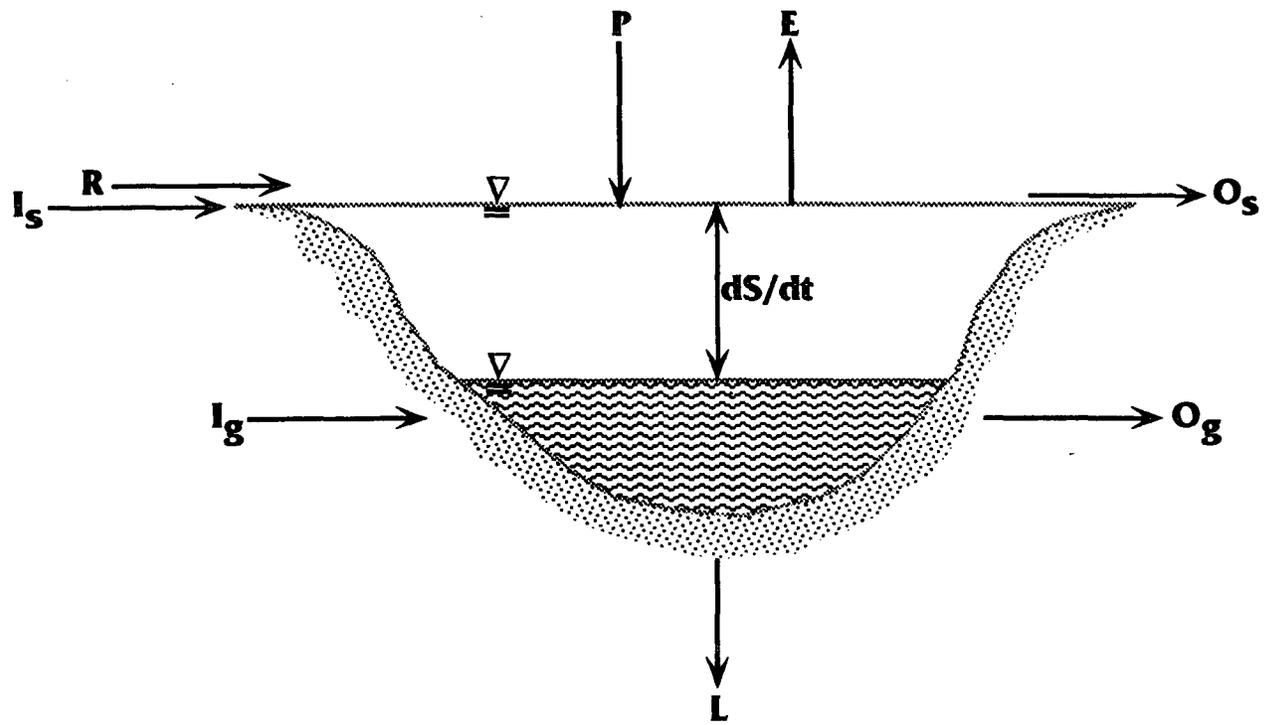


Figure 8-1. Water-Budget Components

where: A = surface area of lake [L²];
 b' = thickness of confining unit [L];
 dh = head difference between lake stage and potentiometric surface of underlying aquifer [L];
 K' = vertical hydraulic conductivity of the confining unit [LT⁻¹];
 K'/b' = leakance [T⁻¹]; and
 Q = vertical leakage [L³T⁻¹].

By means of water-budget calculations, leakage has been determined as the residual term in equations similar to Equation 8-1 for several lakes located in the Highlands region (see Table 8-1). Leakage from Lake Jackson, located in Highlands County, averaged 4.7 inches per year (in/yr) for the period 1954-1957 and 14.3 in/yr from 1970 to 1973 (Hammett, 1981). Lake Placid, also located in Highlands County, had an average leakage of 26.8 in/yr for a 19-month period in 1955-1956 (Kohout and Meyer, 1959). Based on Lichtler et al. (1976), leakage from Lake Johio in central Florida was 136 in/yr in 1967-1968 and 75.2 in/yr in 1967 from nearby Lake Sherwood. Based on Clark et al. (1963), leakage from Brooklyn Lake averaged 168 in/yr during an 8-month period in 1960. Leakage for 20 lakes, including Sand Hill Lake, Magnolia Lake, Brooklyn Lake, and Lake Geneva in the UECB, was estimated by Deevey (1988). His estimates ranged from 12.7 in/yr for Lake Geneva to 35.5 in/yr for Brooklyn Lake (see Table 8-2).

Table 8-1. Leakage and Leakance Values for Selected Lakes in Florida

Lake	Period	Leakage (Q) (in/yr)	Leakance (K'/b') (day ⁻¹)
Jackson	1954-1957	4.7	1.08 x 10 ⁻⁴
Jackson	1970-1973	14.3	1.08 x 10 ⁻⁴
Placid	1955-1956	26.8	1.91 x 10 ⁻⁴
Johio	1967-1968	136	6.60 x 10 ⁻⁴
Sherwood	1967	75.2	2.64 x 10 ⁻³
Brooklyn	1960	168	1.35 x 10 ⁻³

Source: Motz et al., 1991b.

Table 8-2. Leakage Values for Lakes in the UECB

Lake	Leakage (Q) (in/yr)
Brooklyn	35.5
Geneva	12.7
Magnolia	16.3
Sand Hill	14.2

Source: Deevey, 1988.

Leakance (K'/b') values also have been estimated for some of the lakes in the Highlands Region (Motz et al., 1991b)(see Table 8-1). At Lake Jackson, leakance is $1.08 \times 10^{-4} \text{ day}^{-1}$, based on Hammett (1981). Leakance values estimated for lakes Placid, Johio, Sherwood, and Brooklyn using data from Kohout and Meyer (1959), Lichtler et al. (1976), and Clark et al. (1963) range over slightly more than an order of magnitude from 1.91×10^{-4} to $2.64 \times 10^{-3} \text{ day}^{-1}$.

8.2 Water Budgets for UECB Lakes

8.2.1 Water-Budget Components

In the UECB, a lake gains water by means of precipitation, runoff, surface-water inflow, and groundwater inflow and it loses water by means of evaporation, surface-water outflow, groundwater outflow, and vertical leakage to the underlying Upper Floridan aquifer (see Figure 8-2). In the UECB, vertical leakage from the surficial aquifer to the Upper Floridan aquifer generally occurs through the upper confining unit into the intermediate aquifer and then through the lower confining unit.

The water budget for these lakes can be expressed by Equation 8-1. For this investigation, the net lateral movement of groundwater in the surficial aquifer, or $I_g - O_g$, was assumed to be negligible compared to other components in the water budget. This is based on computations by Clark et al. (1963), in

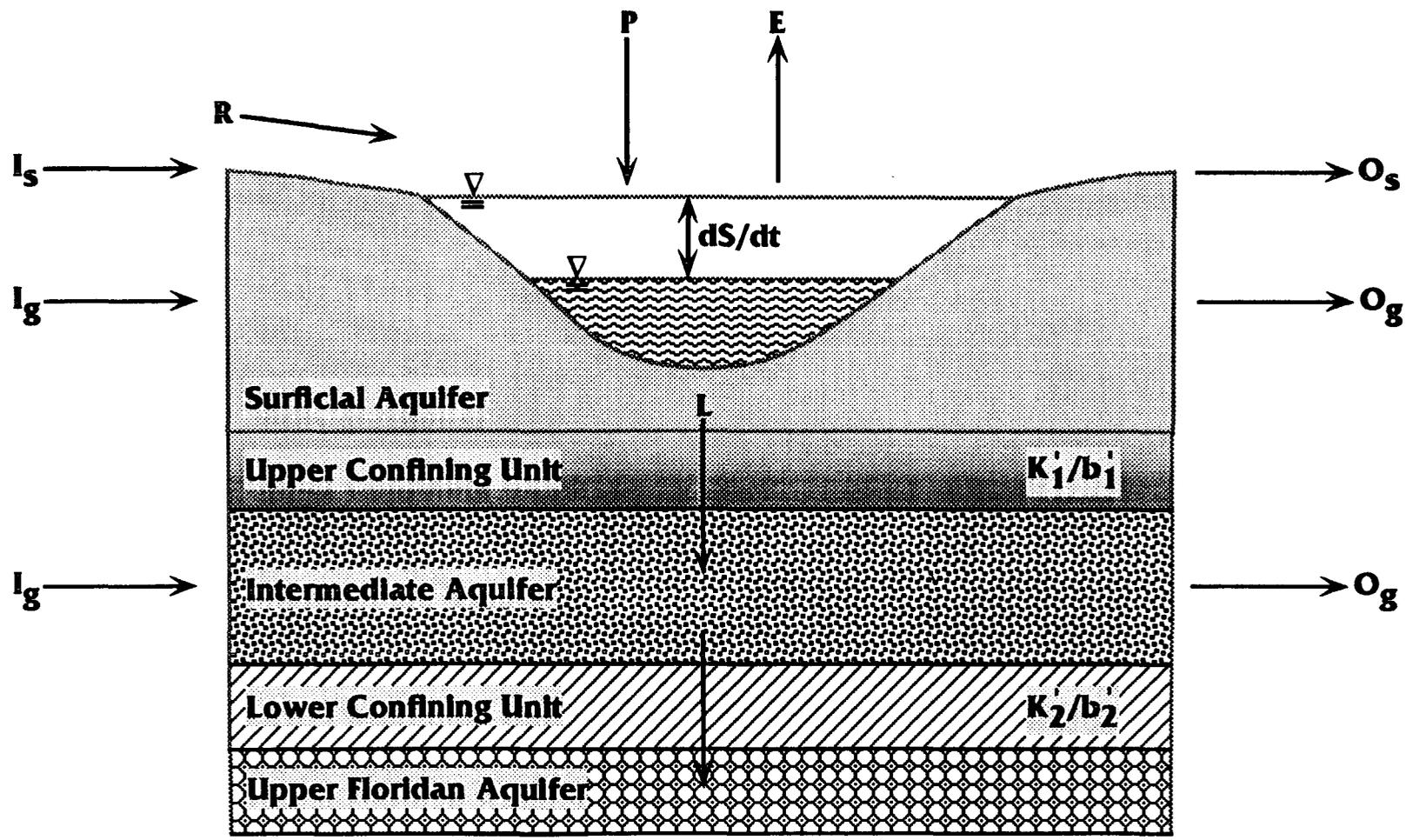


Figure 8-2. Water-Budget Components for Upper Etonia Chain of Lakes

which the lateral movement of groundwater in the surficial aquifer for Brooklyn Lake was less than 10 percent of the total water budget. The error introduced by this assumption is thus incorporated into the leakage term. Therefore, Equation 8-1 reduces to:

$$dS/dT = (P + R + I_s) - (E + O_s + L) \quad (8-3)$$

8.2.2 Leakage

The total leakage of water from each lake is the sum of the leakage from the lake into the intermediate aquifer through the upper confining unit and the leakage from the intermediate aquifer into the Upper Floridan aquifer through the lower confining unit. The volume of leakage from each lake was computed as the residual term in the water-budget equation. Rearranging Equation 8-3 to solve for leakage yields:

$$L = (P + R + I_s) - (E + O_s + dS/dT) \quad (8-4)$$

8.2.3 Leakance

In terms of vertical leakage and leakance, the aquifer system in the UECB can be analyzed as a column with vertical flow (see Figure 8-3). The leakance for the three-layer aquifer system is the combined, or equivalent, vertical leakance for the upper confining unit, the intermediate aquifer, and the lower confining unit. Based on Freeze and Cherry (1979), this can be expressed as:

$$\frac{K'}{b'} = \frac{1}{\frac{b_1'}{K_1'} + \frac{b}{K_z} + \frac{b_2'}{K_2'}} \quad (8-5)$$

Typically, the upper and lower confining units are much more restrictive to vertical flow than the intermediate aquifer. Accordingly, the leakance for both confining units is much smaller than the leakance for the intermediate aquifer,

so that $\frac{K_1'}{b_1'}$ and $\frac{K_2'}{b_2'} \ll \frac{K_z}{b}$, and $\frac{b_1'}{K_1'}$ and $\frac{b_2'}{K_2'} \gg \frac{b}{K_z}$. Thus, the equivalent vertical leakance in Equation 8-5 is approximately equal to:

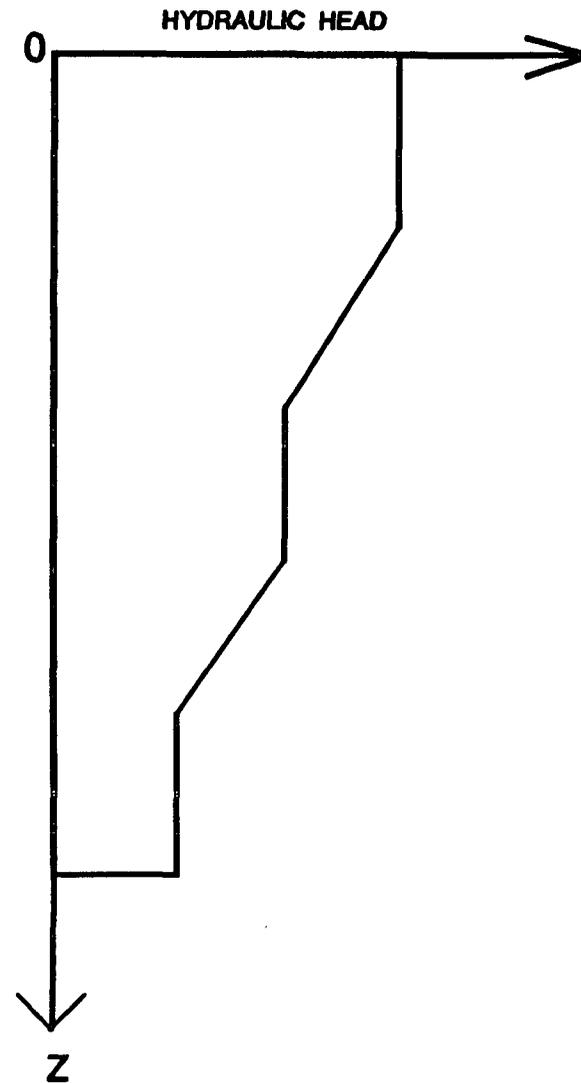
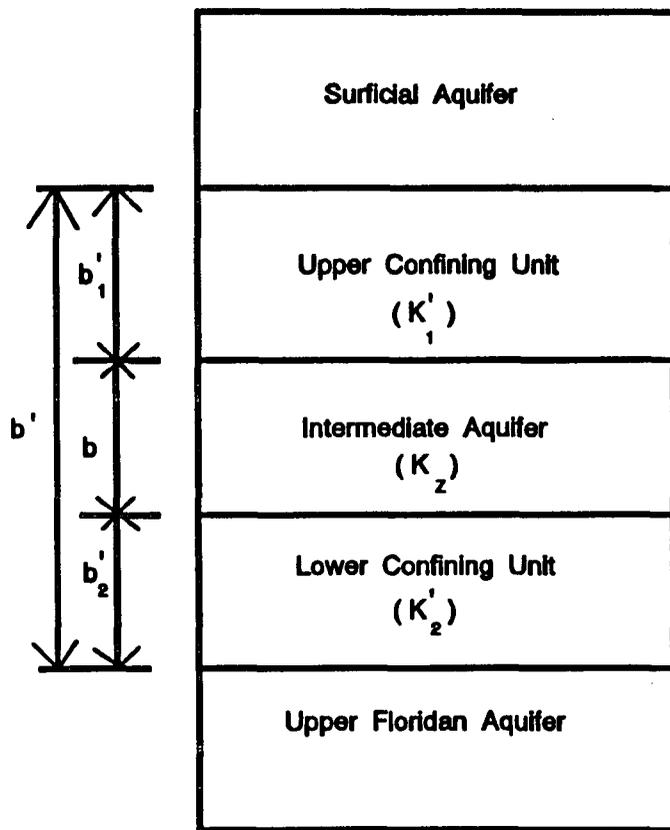


Figure 8-3. Generalized Hydraulic Conductivity, Thickness, and Hydraulic Head Relations in UECB

$$\frac{K'}{b'} = \frac{1}{\frac{b_1'}{K_1'} + \frac{b_2'}{K_2'}} \quad (8-6)$$

If leakage in this aquifer system is analyzed as a column with vertical flow, then a comparison of the head differences between adjacent aquifers can give an indication of the more restrictive confining unit. Three cases can be identified, based on the differences between hydraulic heads in the surficial, intermediate, and Upper Floridan aquifers (see Figure 8-4).

In case 1, the surficial aquifer head is slightly higher than the head measured in the intermediate aquifer, and both are significantly higher than the head in the Upper Floridan aquifer (see Figure 8-4). This indicates that the lower confining unit is more restrictive to vertical flow than the upper con-

fining unit. Therefore, $\frac{b_1'}{K_1'} \ll \frac{b_2'}{K_2'}$, so that

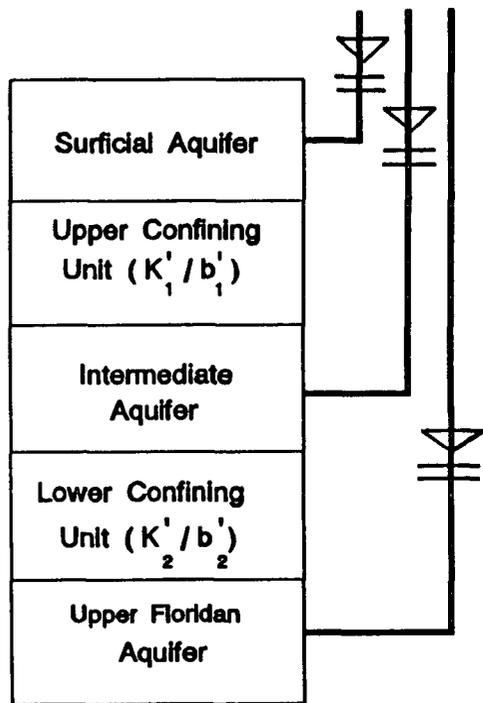
$$\frac{K'}{b'} \approx \frac{1}{\frac{b_2'}{K_2'}} = \frac{K_2'}{b_2'} \quad (8-7)$$

for case 1. In this case, the upper confining unit may be absent or may have been breached, so that it does not significantly restrict vertical flow.

In case 2, the head differences between the surficial aquifer and the intermediate aquifer and between the intermediate aquifer and the Upper Floridan aquifer are not significantly different (see Figure 8-4). This indicates that both confining units restrict vertical flow. Therefore:

$$\frac{K'}{b'} = \frac{1}{\frac{b_1'}{K_1'} + \frac{b_2'}{K_2'}} \quad (8-8)$$

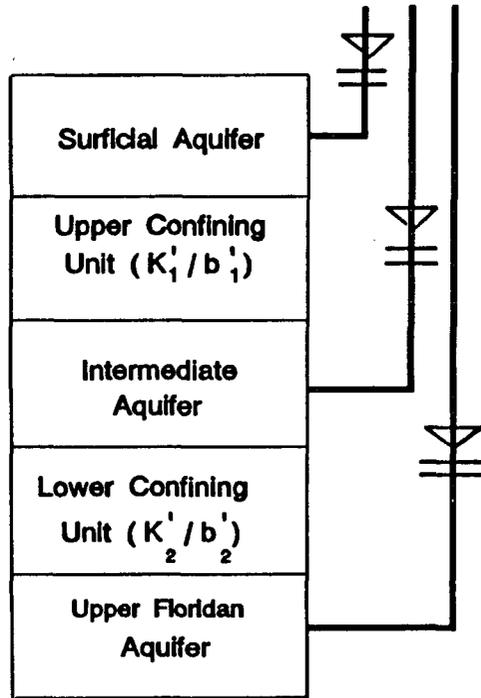
for case 2. Neither leakage value can be assumed negligible in this case, but the leakage for each confining unit can be determined separately if data are available.



CASE 1

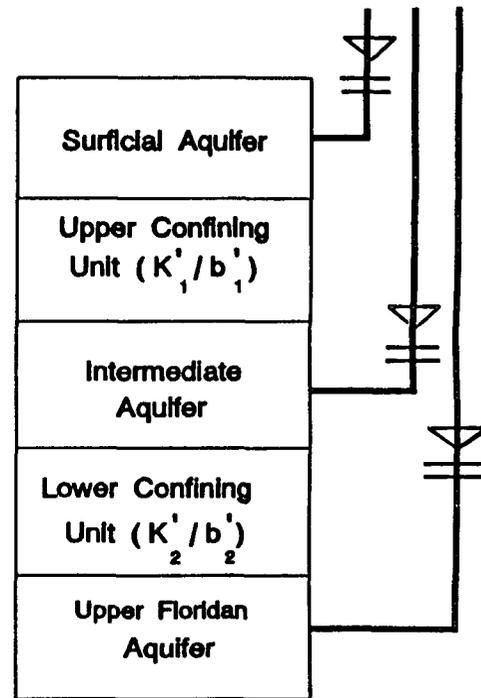
$$\frac{K_1'}{b_1'} \gg \frac{K_2'}{b_2'}$$

$$\frac{K_1'}{b_1'} \approx \frac{K_2'}{b_2'}$$



CASE 2

$$\frac{K_1'}{b_1'} = \frac{1}{\frac{b_1'}{K_1'} + \frac{b_2'}{K_2'}}$$



CASE 3

$$\frac{K_1'}{b_1'} \ll \frac{K_2'}{b_2'}$$

$$\frac{K_1'}{b_1'} \approx \frac{K_1'}{b_1'}$$

Figure 8-4. Cases 1, 2, and 3 for Leakage Calculations

In case 3, the surficial aquifer head is significantly greater than the intermediate aquifer head, and the intermediate aquifer head is only slightly greater than the Upper Floridan aquifer head (see Figure 8-4). This indicates that the upper confining unit is more restrictive to vertical flow. Therefore,

$$\frac{b'_1}{K'_1} \gg \frac{b'_2}{K'_2}, \text{ so that}$$

$$\frac{K'}{b'} \approx \frac{1}{\frac{b'_1}{K'_1}} \approx \frac{K'_1}{b'_1} \quad (8-9)$$

for case 3. In this case, the lower confining unit may be absent or may have been breached, so that it does not significantly restrict vertical flow.

8.3 Short-Term Water-Budget Calculations

8.3.1 Methodology Using Daily Time Step

A short-term water budget with a daily time step was utilized to calculate the equivalent leakance values for Sand Hill Lake, Magnolia Lake, Brooklyn Lake, and Lake Geneva (see Appendix D for data base). During the several years prior to 1991, the lakes in the Upper Etonia chain experienced mild to severe drawdowns due to a period of below average rainfall. During this period, the stages of Sand Hill Lake, Magnolia Lake, Brooklyn Lake and Lake Geneva were below their outlet elevations. For this time interval, no surface-water inflow or outflow took place at Magnolia Lake, Brooklyn Lake, or Lake Geneva.

Although lake stage records are not collected at Blue Pond, surface-water inflow into Sand Hill Lake was noted by Mr. Mike Huff of SJRWMD in March 1991, when Sand Hill Lake was near its lowest recorded stage. This indicates that Sand Hill Lake most likely received surface-water inflow from Blue Pond during this entire time interval.

For Magnolia Lake, Brooklyn Lake, and Lake Geneva, the water-budget equation for this time period simplifies to:

$$dS/dT = P + R - E - L \quad (8-10)$$

Rearranging Equation 8-10 to solve for leakage yields:

$$L = P + R - E - dS/dT \quad (8-11)$$

Substituting from Equation 8-2 to solve for leakance yields:

$$\frac{K'}{b'} = \frac{P + R - E - dS/dT}{A \, dh} \quad (8-12)$$

For Sand Hill Lake, the water-budget equation for this time period reduces to:

$$dS/dT = P + R + I_s - E - L \quad (8-13)$$

Rearranging Equation 8-13 to solve for leakage yields:

$$L = P + R + I_s - E - dS/dT \quad (8-14)$$

Substituting from Equation 8-2 to solve for leakance yields:

$$\frac{K'}{b'} = \frac{P + R + I_s - E - dS/dT}{A \, dh} \quad (8-15)$$

Using the daily rainfall and evaporation data from the Gainesville station for 1989-1991, records of lake stages, the stage-area and stage-volume relationships for each lake, and measurements of the potentiometric heads of the intermediate and Upper Floridan aquifers, the leakance values for each lake were calculated for each daily time step. The equivalent leakance value for each lake was then calculated by taking the arithmetic mean of the daily leakance values for the duration of the short-term water budget. The average water-budget components for 1989-1991 also were calculated for each lake. Daily rainfall from Gainesville were used in the simulation, even though rainfall data were available for some gages in the UECB (see Table 7-2), because evaporation data used in the simulation were available only for the Gainesville station.

8.3.2 Sand Hill Lake

Sand Hill Lake fell below its outlet elevation of 131.0 ft, NGVD, from October 13, 1989 until June 24, 1991. During this time, no surface outflow took place. The surface inflow of 6 cfs measured on October 22, 1991 (see Section 7.3.2.1) was applied for the entire time interval as a typical value of the total

inflow from Blue Pond and the springs located to the northeast. A runoff coefficient of 0.01 was assumed for the Sand Hill Lake basin.

The new cluster of monitoring wells at Sand Hill Lake began measuring groundwater levels in each aquifer on April 4, 1991. From the measured lake stage and aquifer water-level data (see Figure 7-12), the lower confining unit appears to be more restrictive to vertical flow than the upper confining unit. Therefore, Sand Hill Lake apparently represents case 1 (see Figure 8-4).

To generate Upper Floridan aquifer water-level data prior to April 4, 1991, a comparison was made between the Upper Floridan aquifer water levels at Sand Hill Lake and Brooklyn Lake (see Figure 8-5). Trends in the Upper Floridan aquifer water levels appear to be highly correlated. Based on a regression of the data (see Figure 8-6), the Upper Floridan aquifer water-level elevation at Sand Hill Lake can be estimated from the Upper Floridan aquifer water-level elevation at Brooklyn Lake by:

$$H_{\text{Sand Hill}} = 0.795H_{\text{Brooklyn}} + 13.45 \quad (8-16)$$

where: H_{Brooklyn} = Upper Floridan aquifer water level at Brooklyn Lake (ft, NGVD);
and $H_{\text{Sand Hill}}$ = Upper Floridan aquifer water level at Sand Hill Lake (ft, NGVD).

Using the difference between the lake stage and the Upper Floridan aquifer water level, daily leakance values were calculated for Sand Hill Lake from October 13, 1989 to June 24, 1991. The average equivalent leakance value for this period is $2.77 \times 10^{-4} \text{ day}^{-1}$, and the leakage averaged 50.1 in/yr (see Figures 8-7 and 8-8).

8.3.3 Magnolia Lake

Magnolia Lake did not receive surface inflow from Sand Hill Lake or discharge surface outflow to Brooklyn Lake from October 13, 1989 until June 24, 1991. A runoff coefficient of 0.01 was assumed for the Magnolia Lake basin.

No measurements of groundwater levels in the intermediate and Upper Floridan aquifers are available near Magnolia Lake, and thus the potentiometric sur-

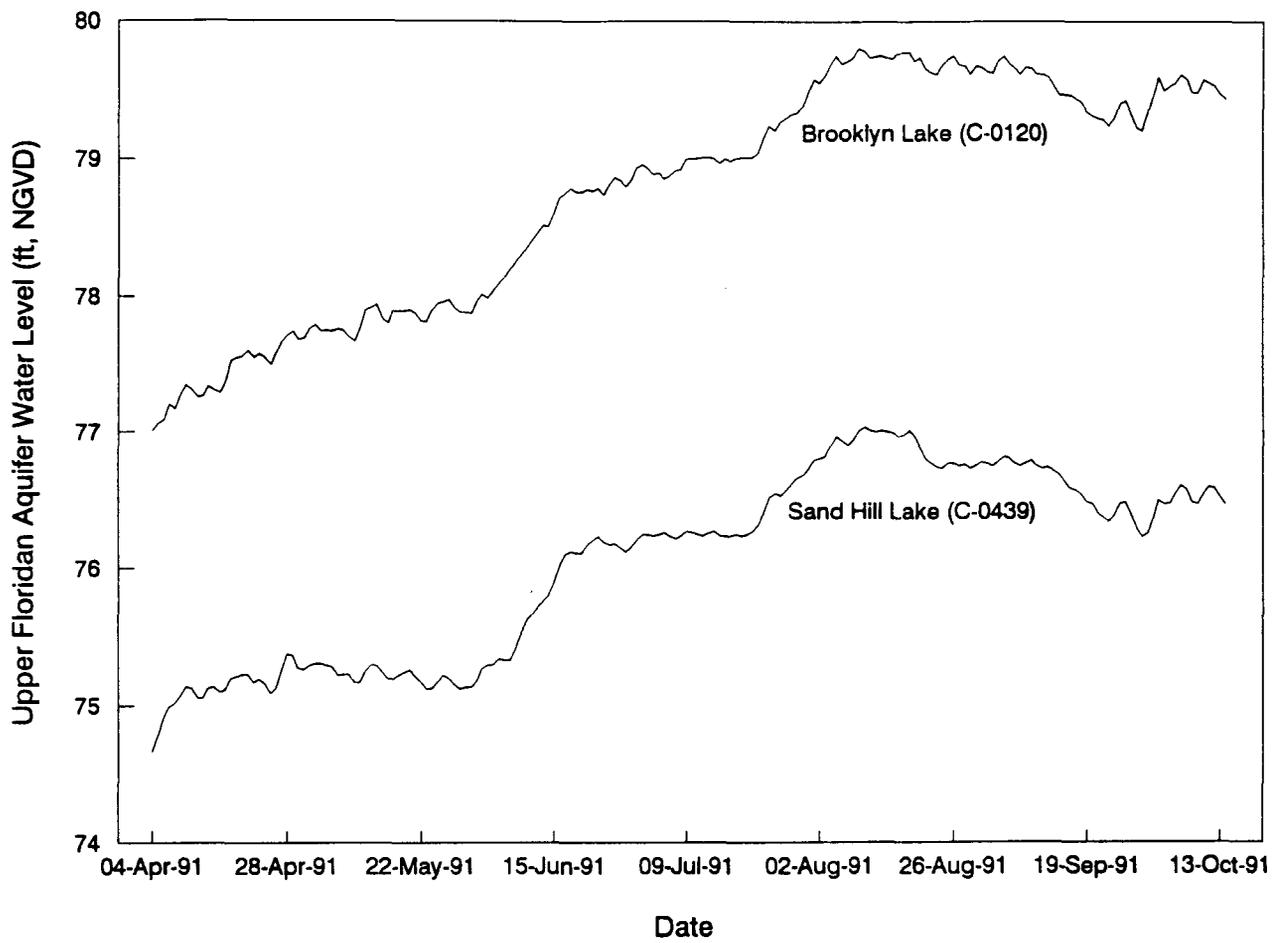
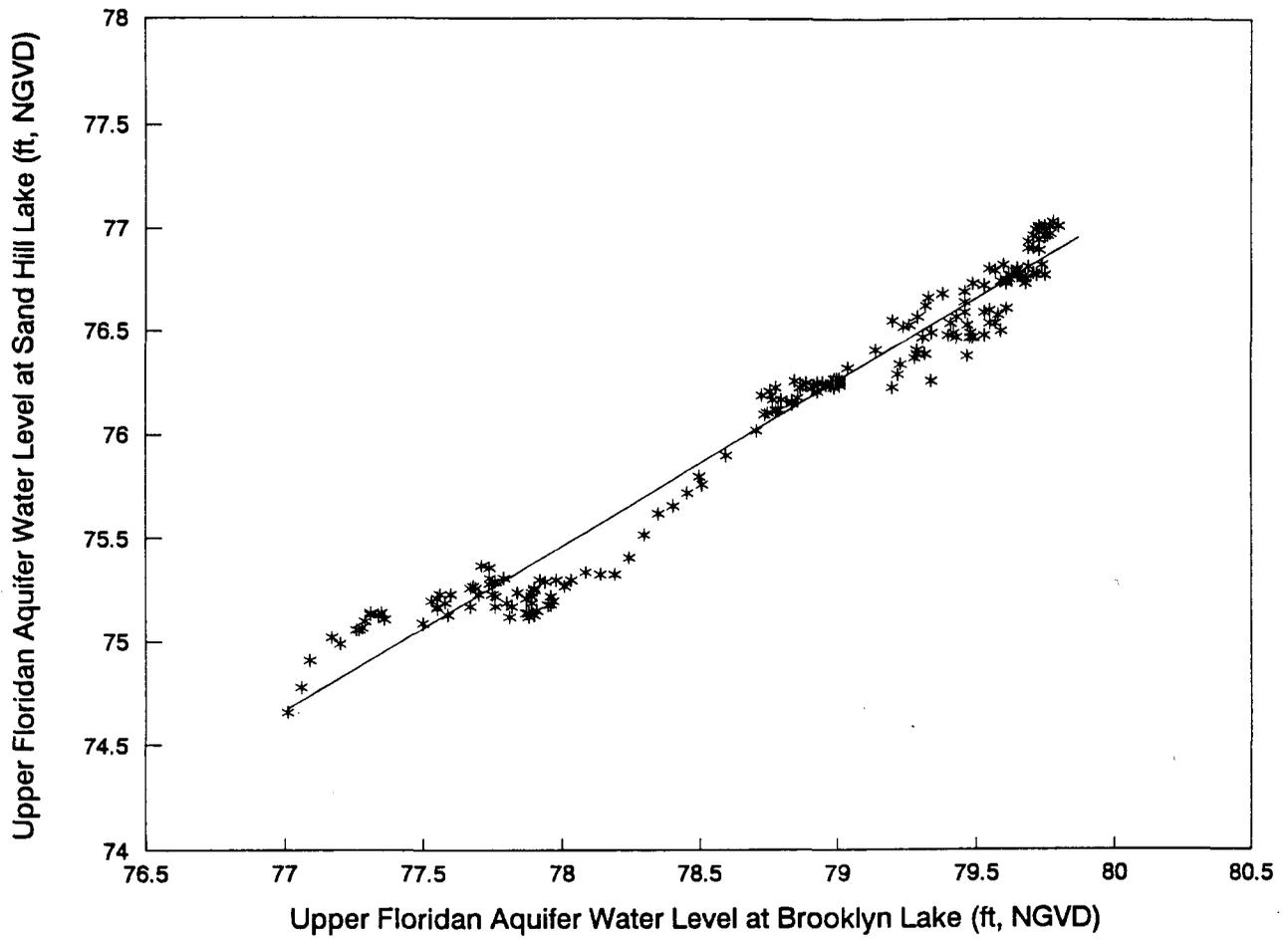


Figure 8-5. Measured Upper Floridan Aquifer Water Levels at Sand Hill Lake and Brooklyn Lake in 1991



Linear Regression Output:
Constant = 13.4476
R squared = 0.9682
x Coefficient = 0.7949

Figure 8-6. Regression of Upper Floridan Aquifer Water Levels at Sand Hill Lake and Brooklyn Lake

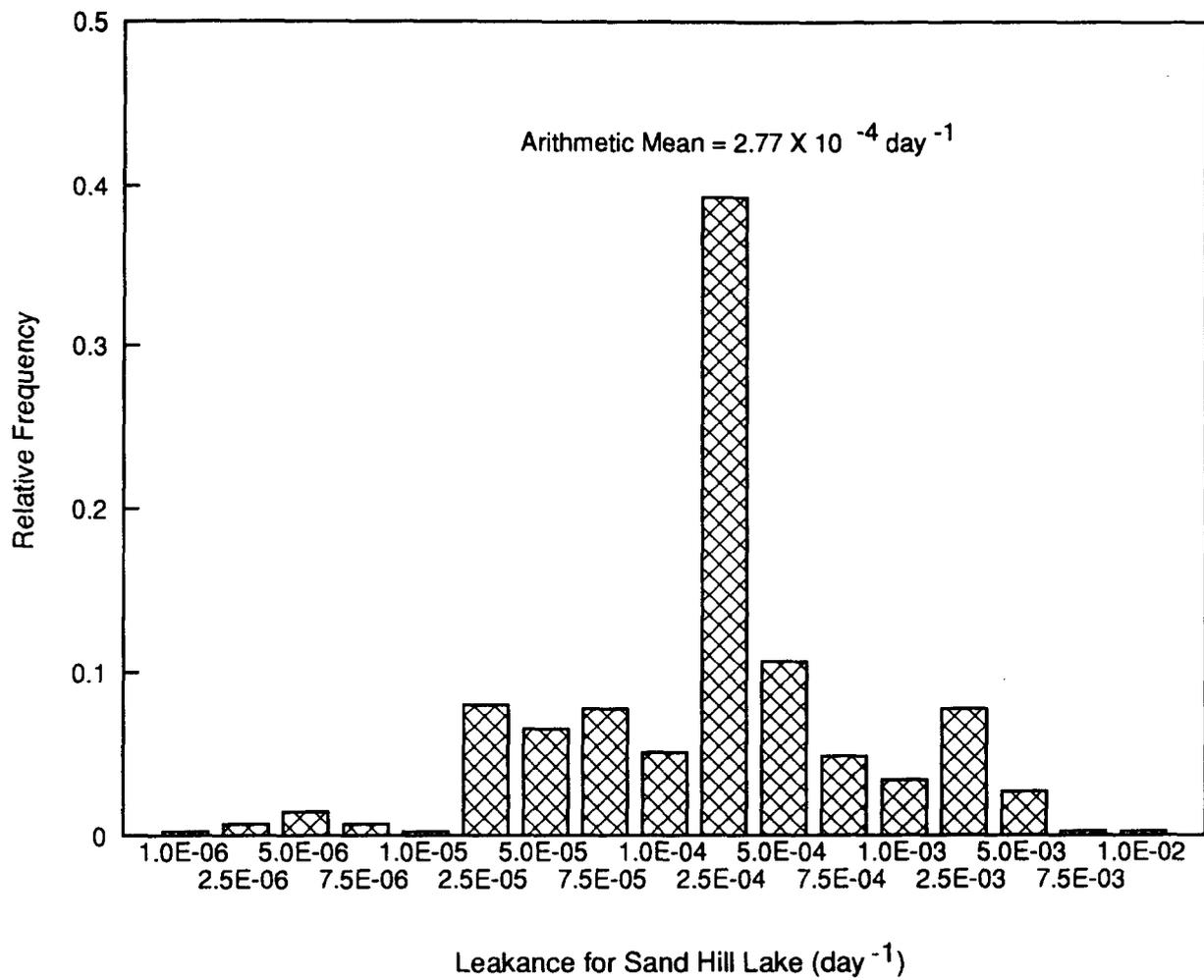


Figure 8-7. Leakance Values Calculated for Sand Hill Lake

Sand Hill Lake Daily Water Budget October 13, 1989 to June 24, 1991

Precipitation	53.1 in/yr	Leakage	50.1 in/yr
Surface-Water Inflow	41.9 in/yr	Evaporation	48.6 in/yr
Runoff	2.4 in/yr	dS/dt	-1.3 in/yr

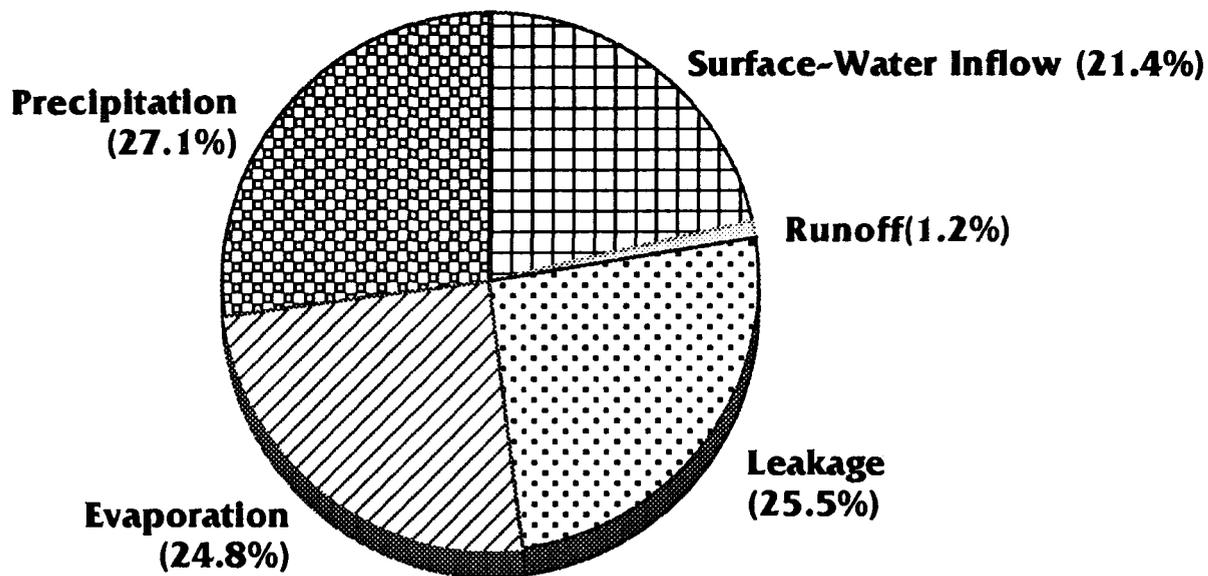


Figure 8-8. Water Budget for Sand Hill Lake for 1989-1991

face maps of these aquifers (Figures 5-7 and 5-8) were utilized to generate the necessary data. From the potentiometric map of the intermediate aquifer, the water-level elevation of the intermediate aquifer at Magnolia Lake on July 15, 1991 was approximately 110 ft, NGVD (see Figure 5-7). From the potentiometric map of the Upper Floridan aquifer, the water-level elevation of the Upper Floridan aquifer was approximately 77.6 ft, NGVD (see Figure 5-8). On July 15, the lake stage was 120.2 ft, NGVD. Accordingly, the head difference between the lake stage and the intermediate aquifer was 10.2 ft, and the difference between the intermediate aquifer and the Upper Floridan aquifer was 32.4 ft. Thus, Lake Magnolia also apparently represents case 1, in which the lower confining unit is more restrictive to vertical flow than the upper confining unit (see Figure 8-4).

To generate long-term data for water-level elevations for the Upper Floridan aquifer, a comparison of the water levels of the Upper Floridan aquifer at Sand Hill Lake and Brooklyn Lake was utilized. From the potentiometric map of the Upper Floridan aquifer, the water-level contours of the Upper Floridan aquifer slope gently towards the northeast and cross between Sand Hill Lake, Magnolia Lake, and Brooklyn Lake (see Figure 5-8). Consequently, the water-level elevation of the Upper Floridan aquifer was estimated to be the average of the water levels measured at Brooklyn Lake and Sand Hill Lake.

Using the difference between the lake stage and the Upper Floridan aquifer water level, daily leakance values were computed for the period from October 13, 1989 to June 24, 1991. The average equivalent leakance value for this period is $3.30 \times 10^{-4} \text{ day}^{-1}$, and the leakage averaged 34.5 in/yr (see Figures 8-9 and 8-10).

8.3.4 Brooklyn Lake

Brooklyn Lake did not receive surface-water inflow from Magnolia Lake or discharge surface-water outflow to Lake Geneva from August 9, 1989 through August 31, 1991. A runoff coefficient of 0.01 was assumed for the basin.

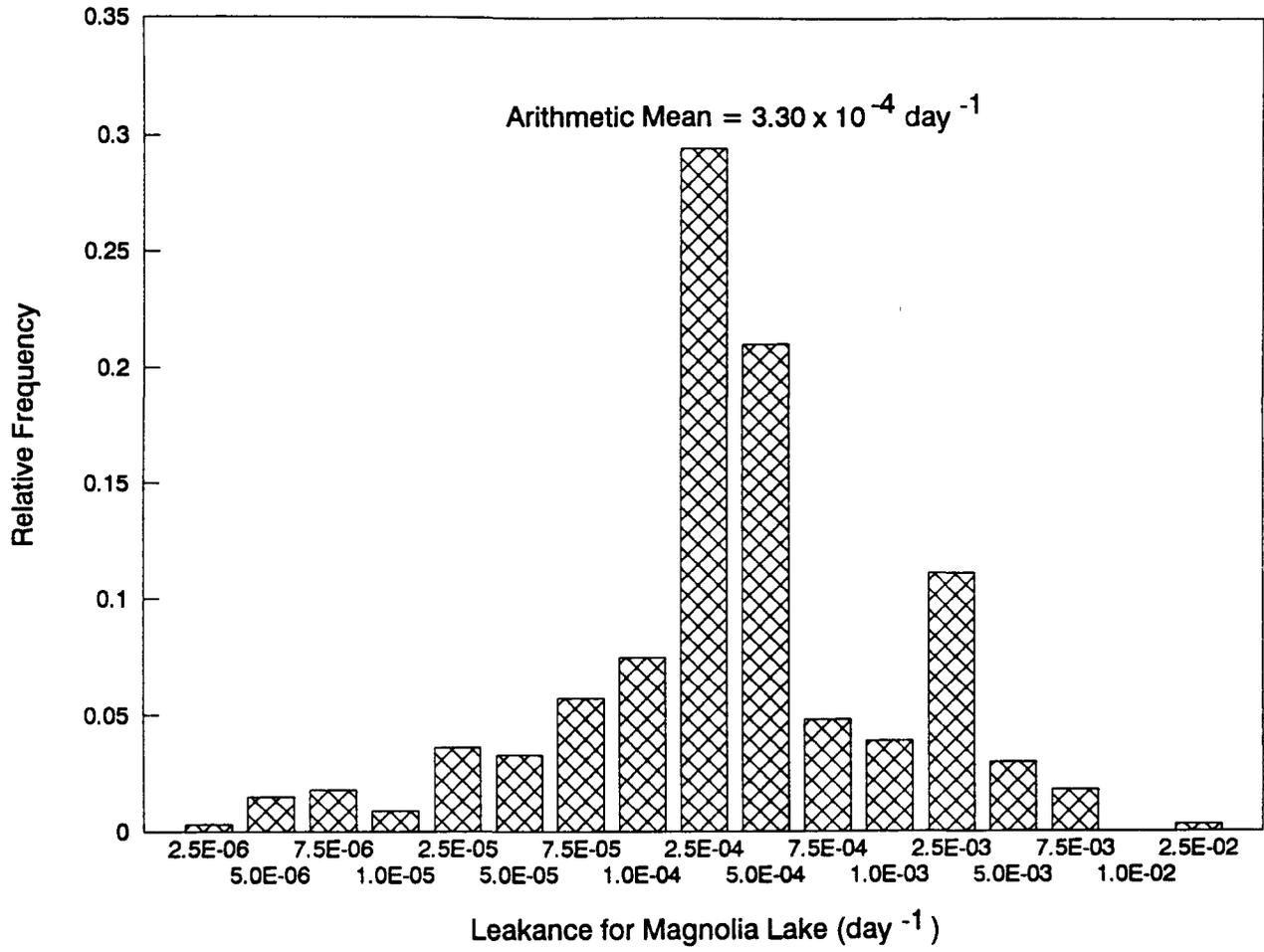


Figure 8-9. Leakance Values Calculated for Magnolia Lake

Magnolia Lake Daily Water Budget

October 13, 1989 to June 24, 1991

Precipitation	53.1 in/yr	Leakage	34.5 in/yr
Runoff	6.2 in/yr	Evaporation	48.6 in/yr
		dS/dt	-23.8 in/yr

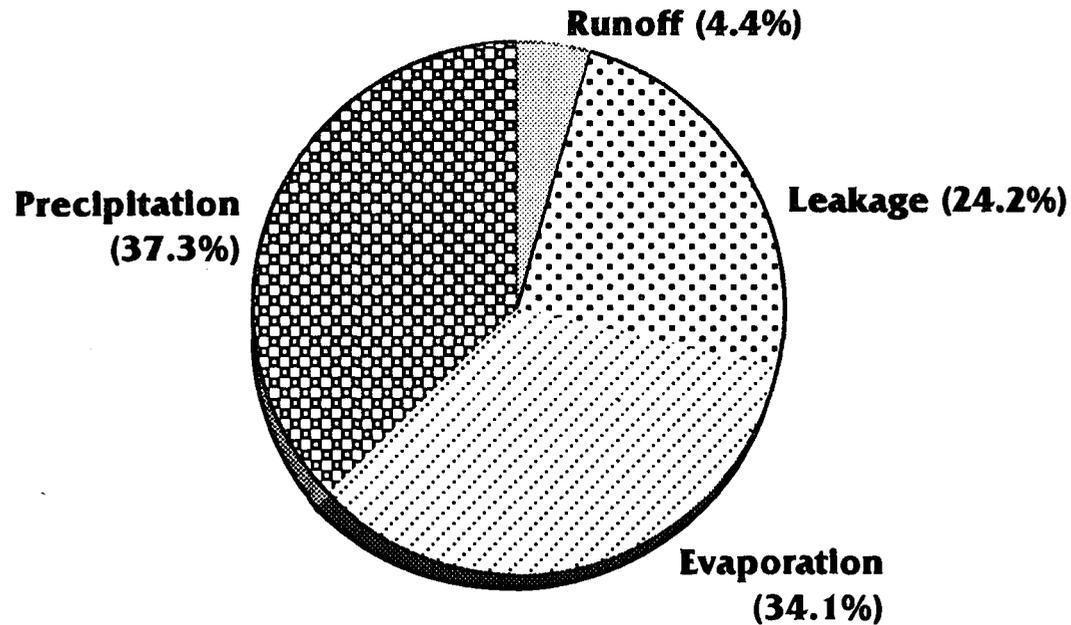


Figure 8-10. Water Budget for Magnolia Lake for 1989-1991

From a comparison of the lake stage and the water level in each aquifer (see Figure 7-10), the head difference between the lake stage and the intermediate aquifer water level averaged 14.1 ft, while the difference between water levels in the intermediate and Upper Floridan aquifers averaged 8.3 ft. Neither value is significantly greater than the other. Thus, Brooklyn Lake apparently represents case 2, in which the upper and lower confining units both restrict the vertical movement of groundwater to the same degree (see Figure 8-4).

Using the difference between the lake stage and the Upper Floridan aquifer water level in well C-0120, daily leakance values were calculated from August 9, 1989 to August 31, 1991. The average equivalent leakance for this period is $1.11 \times 10^{-3} \text{ day}^{-1}$, and the leakage averaged 72.9 in/yr (see Figures 8-11 and 8-12). This leakance value represents the combined, or equivalent, leakance through both confining units. Using the difference between the lake stage and the intermediate aquifer water level in well C-0116, the leakance through the upper confining unit was determined to be $1.61 \times 10^{-3} \text{ day}^{-1}$. The leakance for the lower confining unit was calculated to be $3.57 \times 10^{-3} \text{ day}^{-1}$, based on the leakance value for the upper confining unit and Equation 8-8.

8.3.5 Lake Geneva

Lake Geneva has not received surface-water inflow from Brooklyn Lake since 1974, and it has not discharged surface-water outflow since 1975. The period from January 1, 1989 to August 31, 1991 was chosen for the daily water budget. A runoff coefficient of 0.01 was assumed.

The new cluster of groundwater monitoring wells located on Lake Geneva began recording aquifer levels on July 1, 1991 (see Figure 7-11). From these measurements, the difference between the lake stage and the intermediate aquifer water level averaged 10.7 ft, while the difference between the intermediate and Upper Floridan aquifer water levels averaged only 3.2 ft. Thus, Lake Geneva apparently represents case 3, in which the upper confining unit is more restrictive than the lower confining unit (see Figure 8-4).

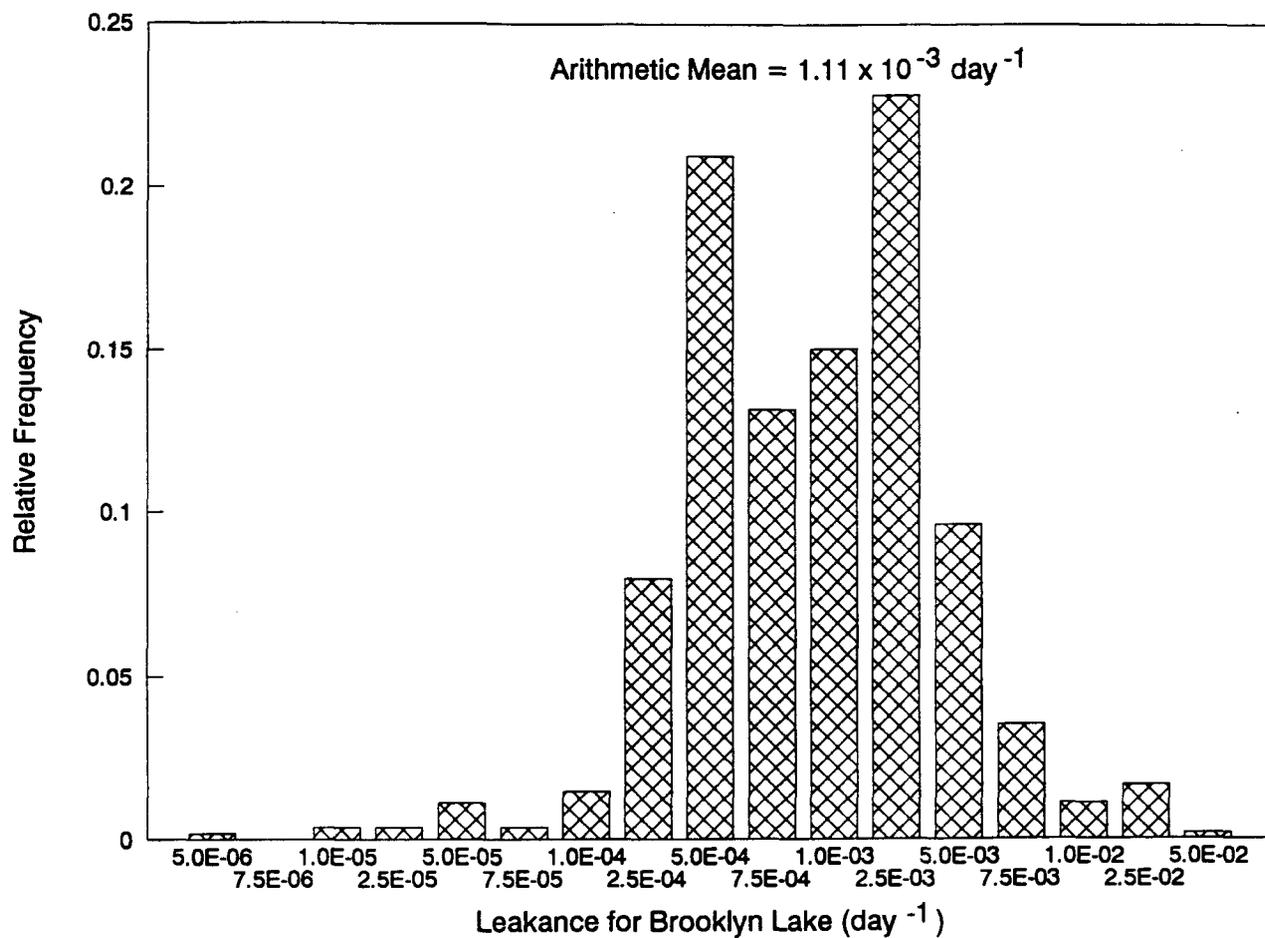


Figure 8-11. Leakance Values Calculated for Brooklyn Lake

Brooklyn Lake Daily Water Budget August 9, 1989 to August 31, 1991

Precipitation	59.8 in/yr	Leakage	72.9 in/yr
Runoff	4.7 in/yr	Evaporation	50.6 in/yr
		dS/dt	-59.0 in/yr

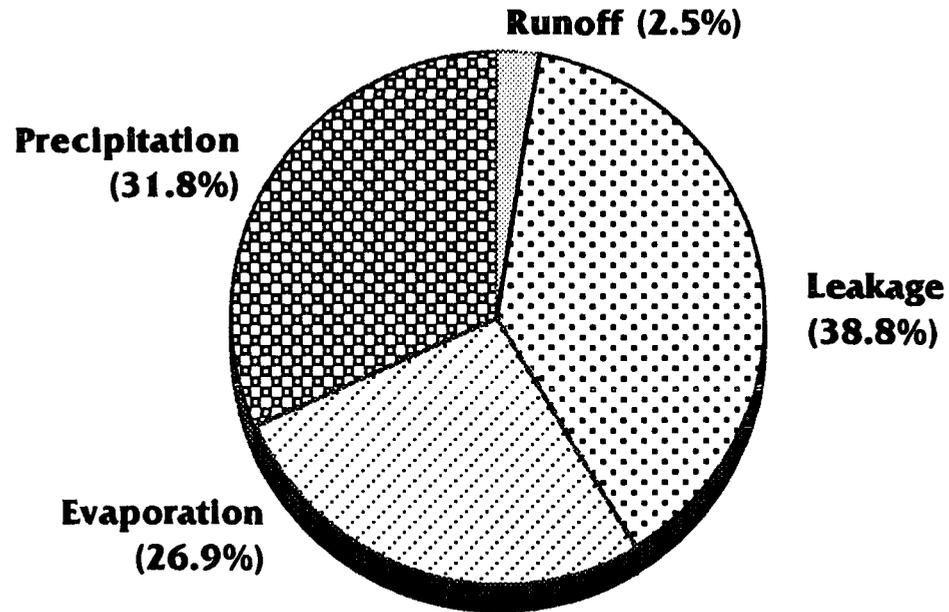


Figure 8-12. Water Budget for Brooklyn Lake for 1989-1991

To generate Upper Floridan aquifer water levels back to January 1, 1989, a comparison of the Upper Floridan aquifer water levels at Lake Geneva and Brooklyn Lake was made (see Figure 8-13). Trends in the Upper Floridan aquifer water levels appear to be highly correlated. Based on a regression of this data (see Figure 8-14), the Upper Floridan aquifer water-level elevation at Lake Geneva can be estimated from the Upper Floridan aquifer water-level elevation at Brooklyn Lake by:

$$H_{\text{Geneva}} = 0.913H_{\text{Brooklyn}} + 6.635 \quad (8-17)$$

where: H_{Brooklyn} = Upper Floridan aquifer water level at Brooklyn Lake (ft, NGVD);
and H_{Geneva} = Upper Floridan aquifer water level at Lake Geneva (ft, NGVD).

Using the difference between the lake stage and the Upper Floridan aquifer water level, daily leakance values were calculated from January 1, 1989 to August 31, 1991. The average equivalent leakance for this period is $8.07 \times 10^{-4} \text{ day}^{-1}$, and the leakage averaged 29.3 in/yr (see Figures 8-15 and 8-16).

8.4 Long-Term Simulations

8.4.1 Methodology Using Weekly Time Step

To verify the leakance values determined from the short-term daily water budget, long-term simulations of the lake stage for each lake were conducted using a weekly time step (see Appendix D for data base). The simulation period was from January 3, 1965 to October 13, 1991. Precipitation combined from the Gainesville and Melrose stations, evaporation from the Gainesville station, surface-water inflow, and surface-water outflow were converted from daily to weekly volumes. The leakance coefficient determined for each lake was input as a constant coefficient to determine a leakage volume based on aquifer water levels and lake-stage elevations. The change in storage, dS/dT , was calculated using Equation 8-3. Based on the volume of water in the lake, the lake stage was then determined using the stage-volume relationship. The average water-budget components for 1965-1991 also were calculated for each lake.

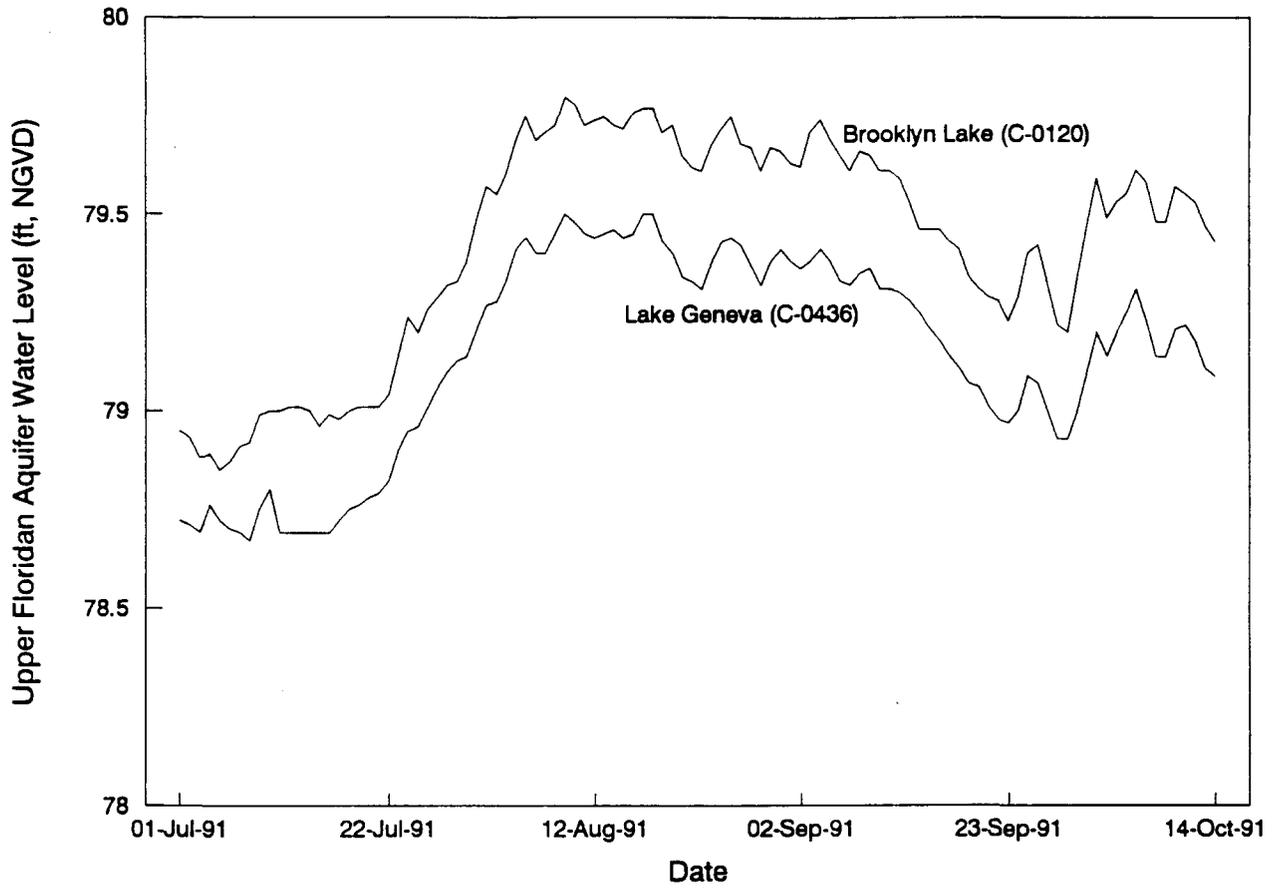
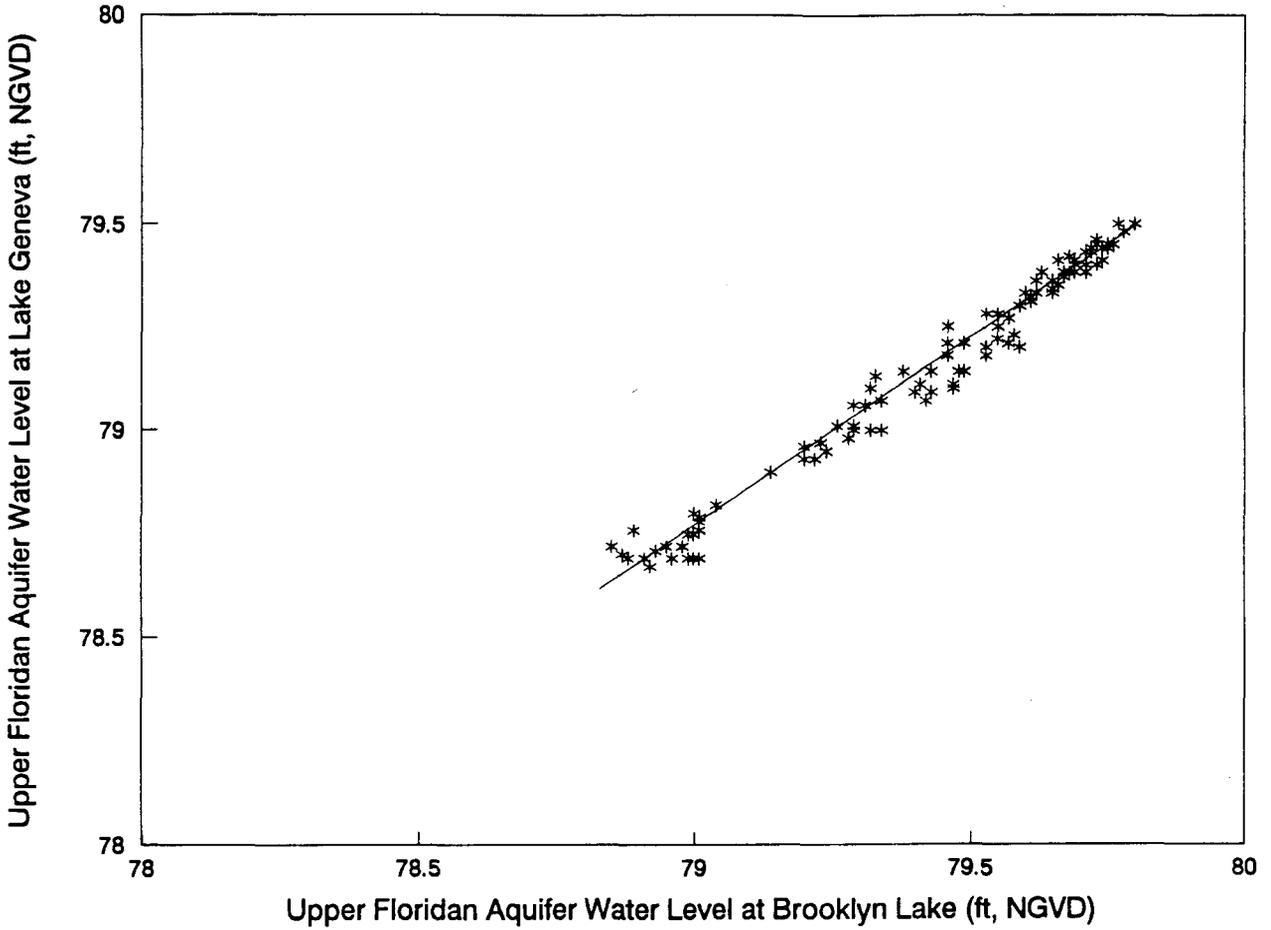


Figure 8-13. Measured Upper Floridan Aquifer Water Levels at Brooklyn Lake and Lake Geneva in 1991



Linear Regression Output:
 Constant = 6.6346
 R squared = 0.9773
 x Coefficient = 0.9129

Figure 8-14. Regression of Upper Floridan Aquifer Water Levels at Lake Geneva and Brooklyn Lake

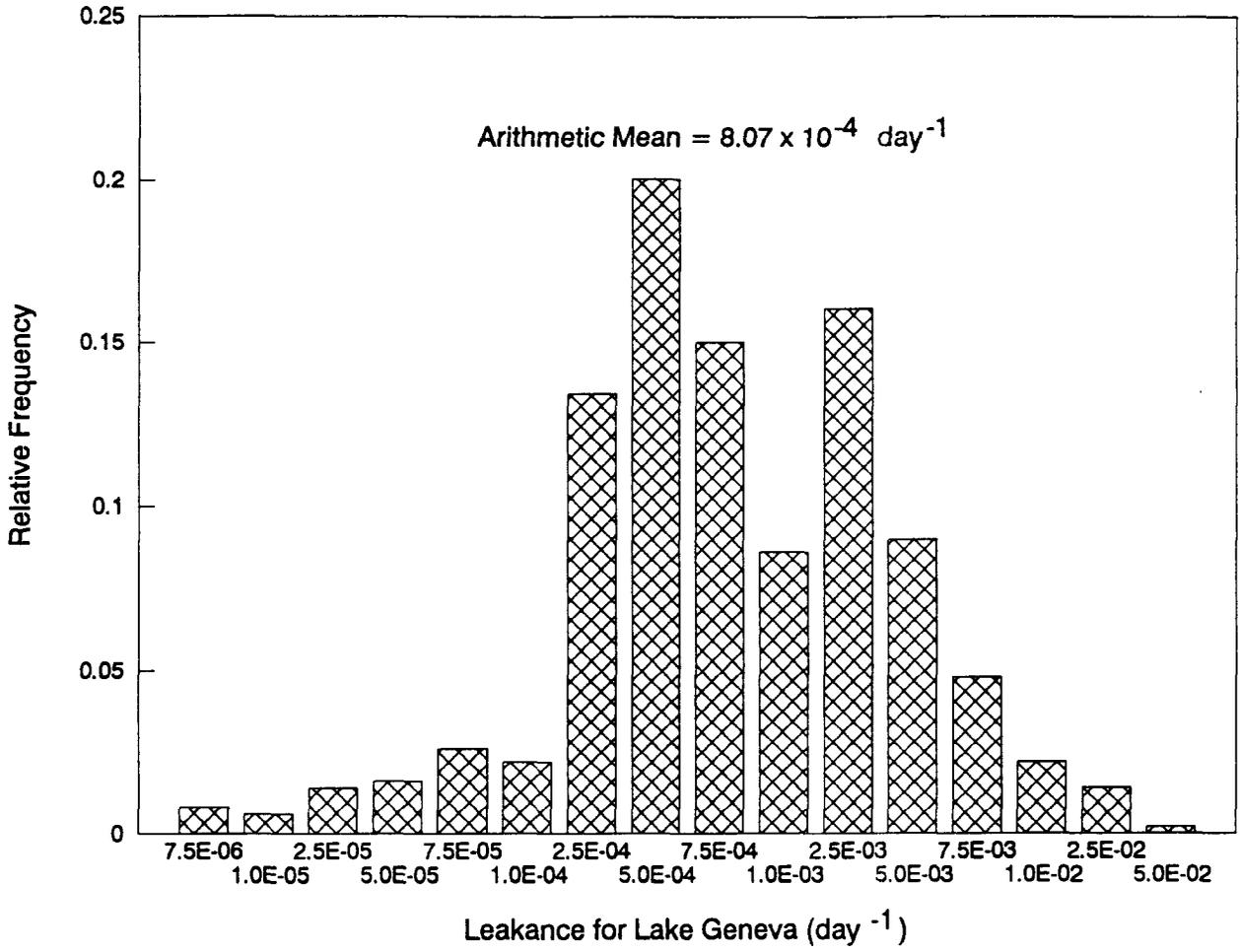


Figure 8-15. Leakance Values Calculated for Lake Geneva

Lake Geneva Daily Water Budget January 1, 1989 to August 31, 1991

Precipitation	54.1 in/yr	Leakage	29.3 in/yr
Runoff	4.8 in/yr	Evaporation	52.7 in/yr
		dS/dt	-23.1 in/yr

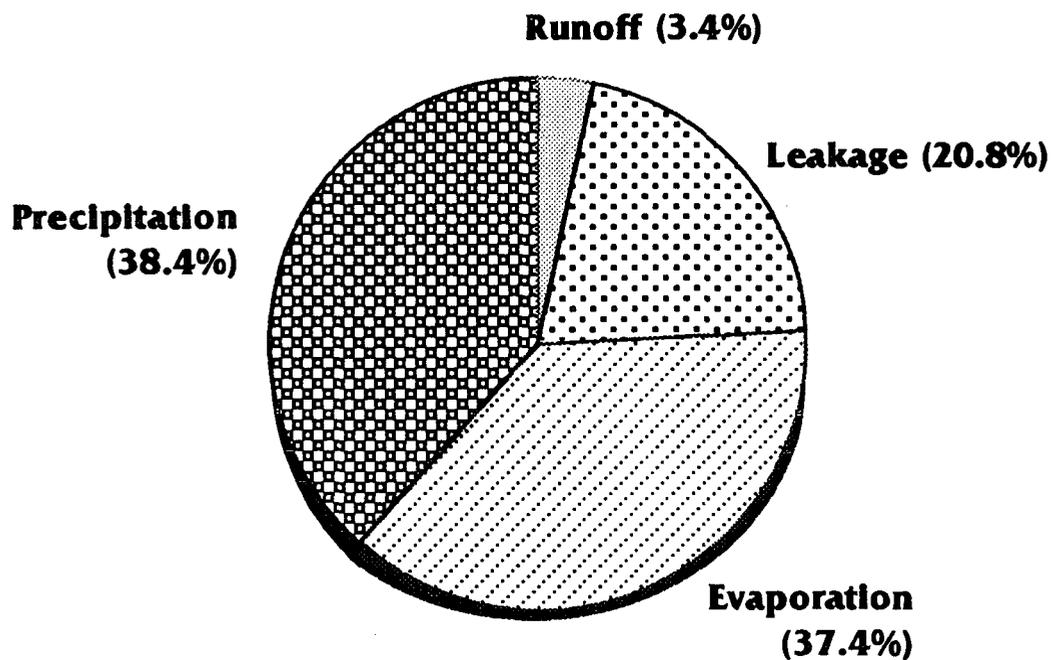


Figure 8-16. Water Budget for Lake Geneva for 1989-1991

The only parameter that was adjusted in the long-term simulation was the percentage of surface-water inflow that reached each lake as discharge from the upstream lake. For each lake, the percentage was held constant with respect to time throughout the simulation. For the individual lakes (see 8.4.3-8.4.5 below), the values ranged from 65 to 100 percent. The values less than 100 percent are attributed to losses from the stream into the surficial aquifer and evaporation from the stream channel.

8.4.2 Sand Hill Lake

For the long-term simulation of Sand Hill Lake, long-term water-level data for the Upper Floridan aquifer had to be generated. Based on the regression determined in section 8.3.2, these long-term data were estimated using water-level measurements for the Upper Floridan aquifer at Brooklyn Lake (see Figure 8-17). Since a stage-discharge relationship for Blue Pond could not be developed, a constant surface-water inflow of 16 cfs was included in the water budget as the typical, long term surface-water inflow from Blue Pond and the springs located northeast of Sand Hill Lake.

Results of the long-term simulation are fairly good (see Figure 8-18). The mean of the differences between the calculated lake stage and the measured lake stage is 0.18 ft, and the standard deviation of the differences is 0.49 ft. During 1965-1991, leakage from Sand Hill Lake averaged 61.9 in/yr (see Figure 8-19).

The simulation of Sand Hill Lake has several shortcomings, however. First of all, without an accurate stage-discharge relationship for Blue Pond, the leakage value determined in the short-term daily water budget calculation was based on a constant inflow of 6 cfs. Undoubtedly, the surface-water inflow varies with hydrologic conditions. Assuming a constant surface-water inflow to calculate the leakage introduced some error into this parameter, and this error was carried over into the long-term simulation of the lake stage. Also, in the long-term

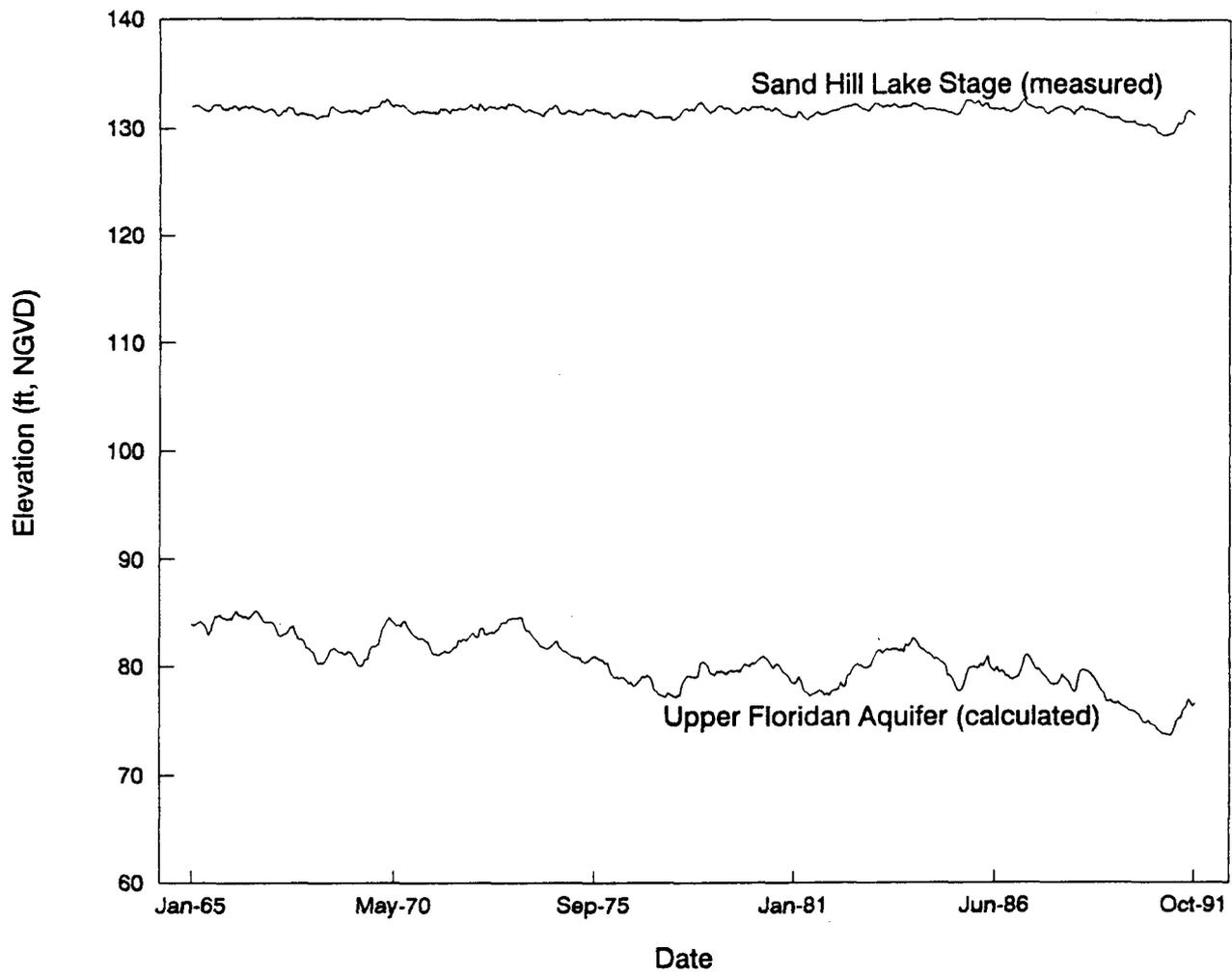


Figure 8-17. Lake Stage and Upper Floridan Aquifer Water Levels at Sand Hill Lake for 1965-1991

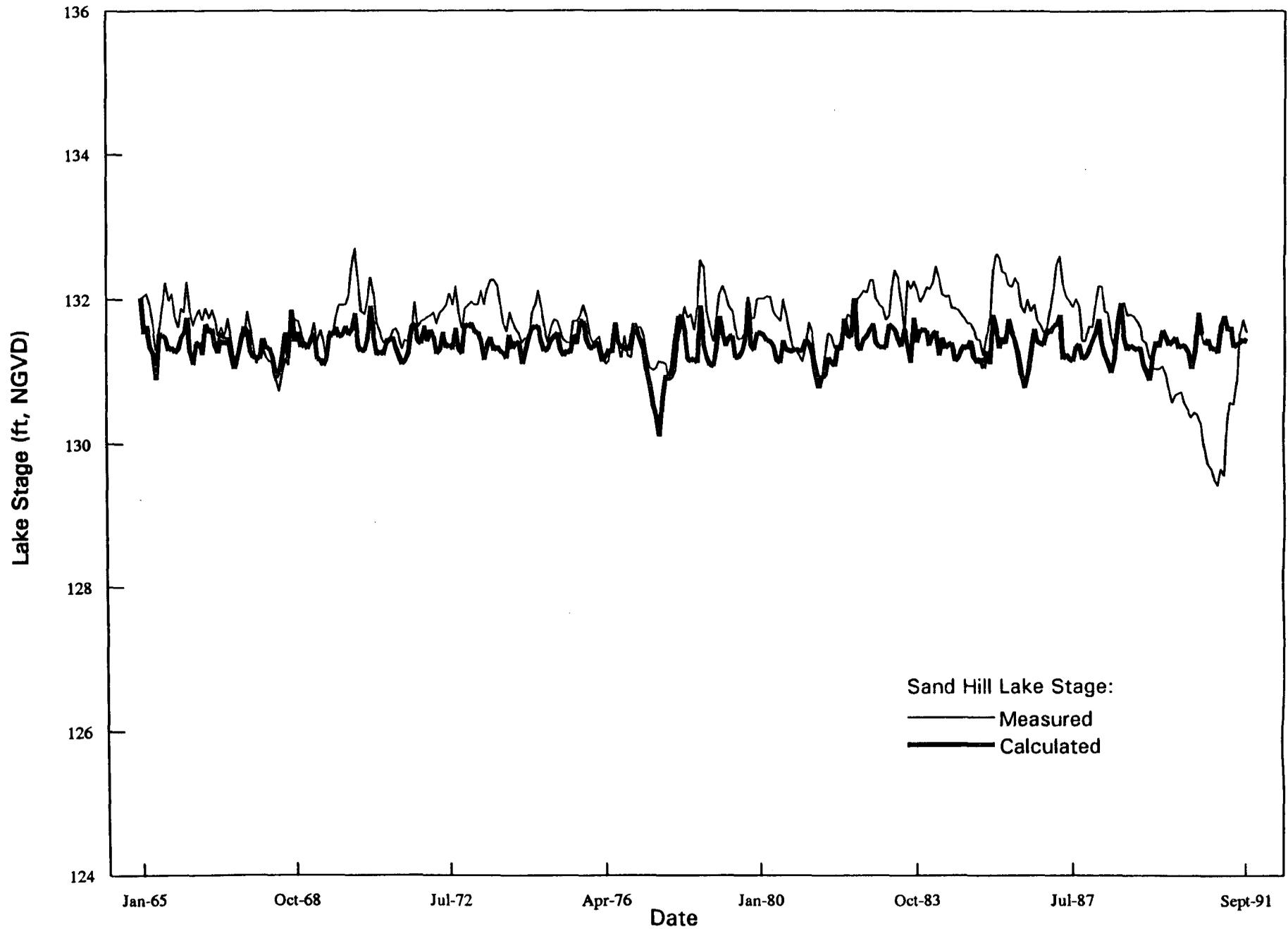


Figure 8-18. Lake-Stage Simulation for Sand Hill Lake from 1965 to 1991

Sand Hill Lake Long-Term Lake Stage Simulation 1965-1991

Surface-Water Inflow	108.3 in/yr	Surface-Water Outflow	48.5 in/yr
Precipitation	51.8 in/yr	Evaporation	52.3 in/yr
Runoff	2.3 in/yr	Leakage	61.9 in/yr
		dS/dt	-0.3 in/yr

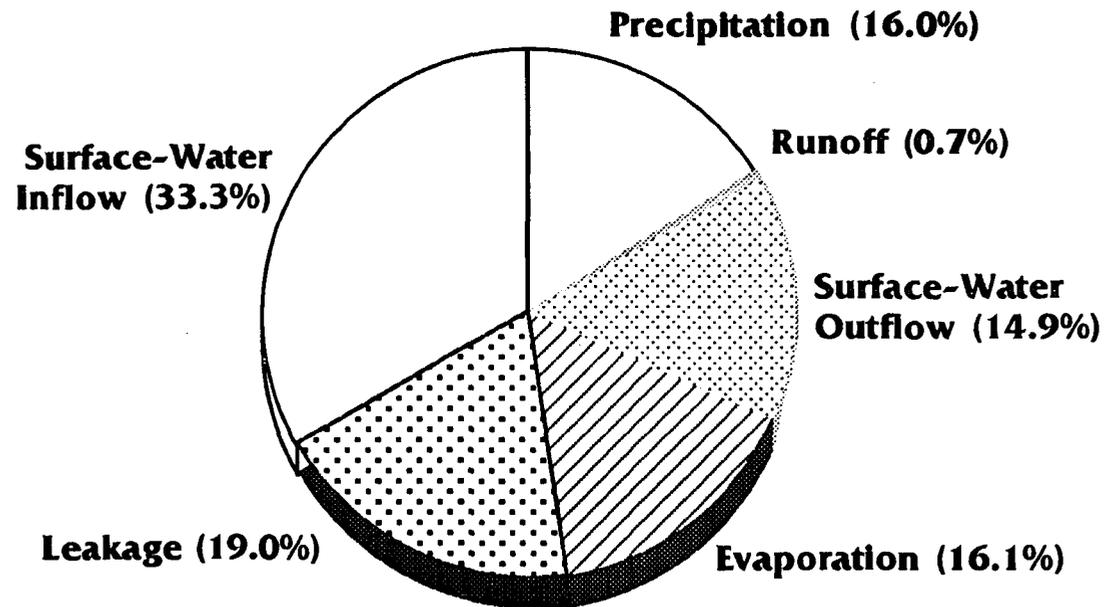


Figure 8-19. Water Budget for Sand Hill Lake for 1965-1991

simulation, the surface-water inflow into Sand Hill Lake was assumed to be constant at 16 cfs over the simulation period. This is highly unlikely over a 25-year period. Since the leakage constitutes a smaller percentage of the water budget for Sand Hill Lake than the other lakes, this assumption results in the inability of the simulation to capture the drawdown of the lake over the last several years. The surface-water inflow overwhelms the other water-budget components.

8.4.3 Magnolia Lake

The long-term Upper Floridan aquifer water levels at Magnolia Lake were computed as the average between the estimated groundwater level at Sand Hill Lake and the measured groundwater level at Brooklyn Lake (see Figure 8-20). As a result of the simulation, it was determined that about 92 percent of the surface inflow from Sand Hill Lake reaches Magnolia Lake.

Results of the long-term simulation of the Magnolia Lake stage are very good (see Figure 8-21). The drawdown over the past several years is captured fairly well. The mean of the differences between the measured and calculated lake stages is 0.13 ft, and the standard deviation of the differences is 0.79 ft. During 1965-1991, leakage from Magnolia Lake averaged 60.3 in/yr (see Figure 8-22).

Differences between the measured and simulated lake stages occurred during short periods when the lake stage was at or below the minimum elevation required for discharge. In these cases, this error may be due to imprecision in the stage-discharge relationships for Sand Hill Lake and Magnolia Lake. This error is amplified by the weekly time step.

8.4.4 Brooklyn Lake

The long-term simulation for Brooklyn Lake was based on the measured lake stage and Upper Floridan aquifer water levels (see Figure 7-10). As a result of this simulation, it was determined that about 65 percent of the discharge from Magnolia Lake reaches Brooklyn Lake.

The results of the simulation of Brooklyn Lake are relatively good (see Figure 8-23). The trends in the lake stage are captured quite well by the simu-

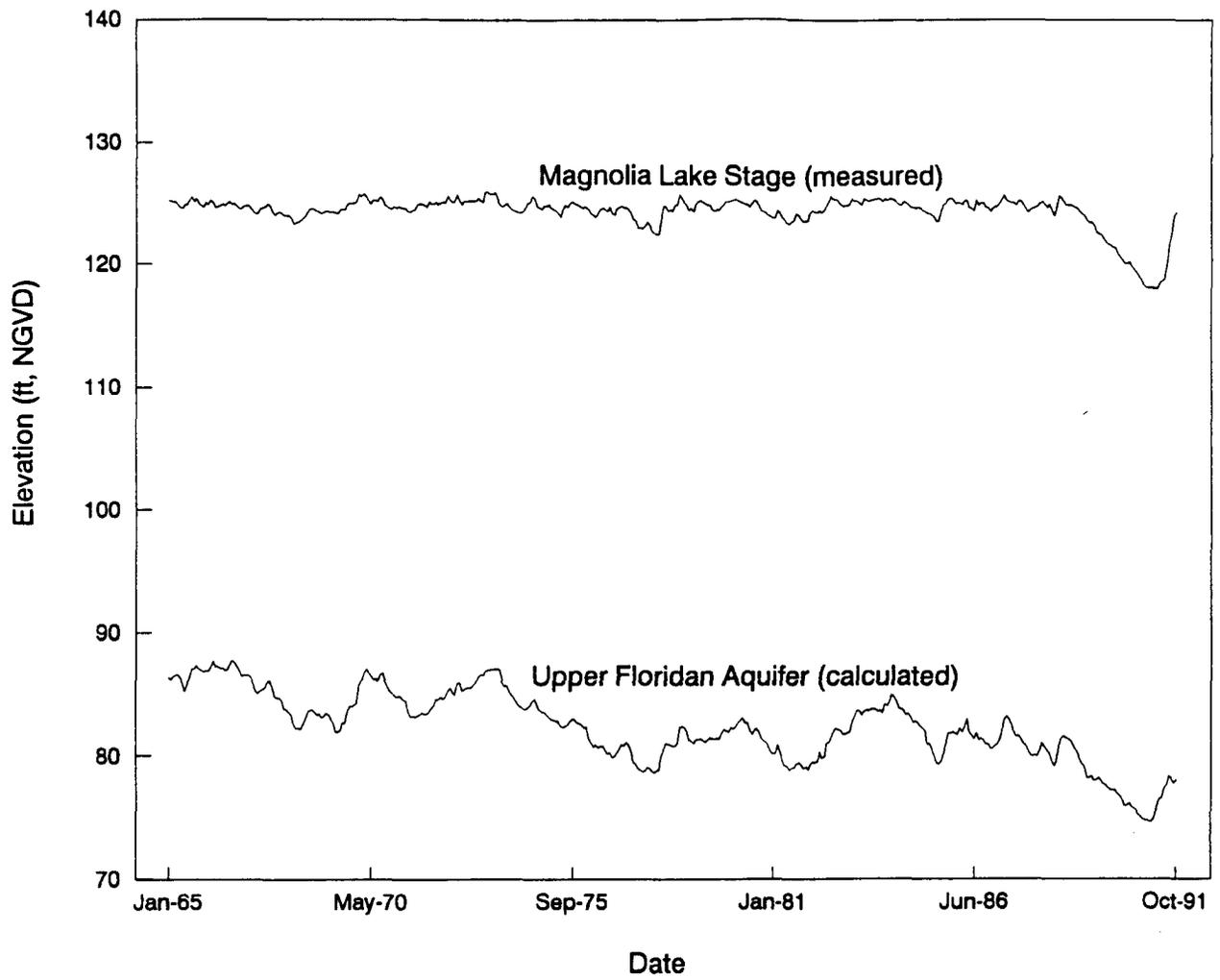


Figure 8-20. Lake Stage and Upper Floridan Aquifer Water Levels at Magnolia Lake for 1965-1991

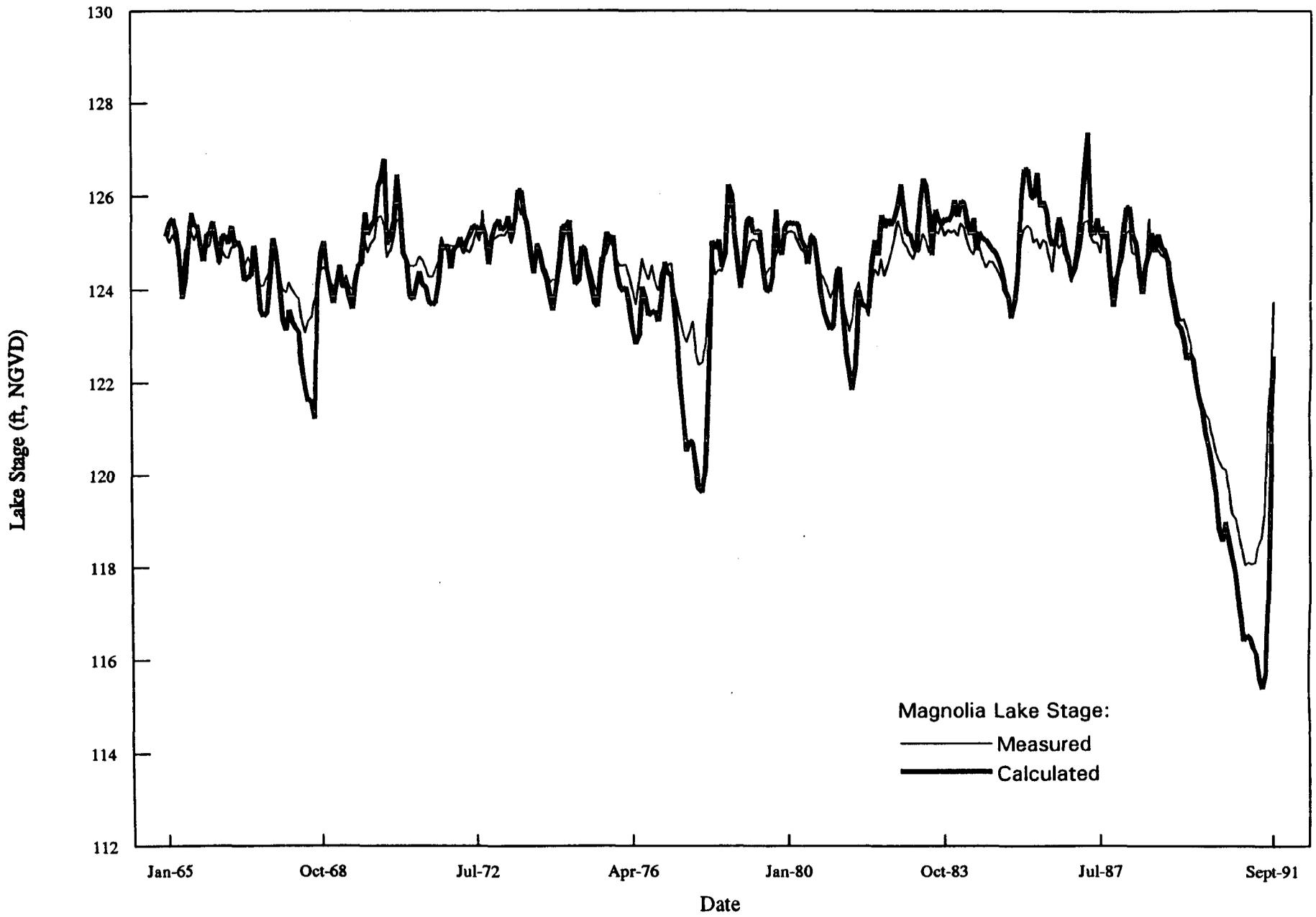


Figure 8-21. Lake-Stage Simulation for Magnolia Lake from 1965 to 1991

Magnolia Lake Long-Term Lake Stage Simulation 1965-1991

Surface-Water Inflow 578.8 in/yr
Precipitation 51.8 in/yr
Runoff 5.5 in/yr

Surface-Water Outflow 524.7 in/yr
Evaporation 52.3 in/yr
Leakage 60.3 in/yr
dS/dt -1.2 in/yr

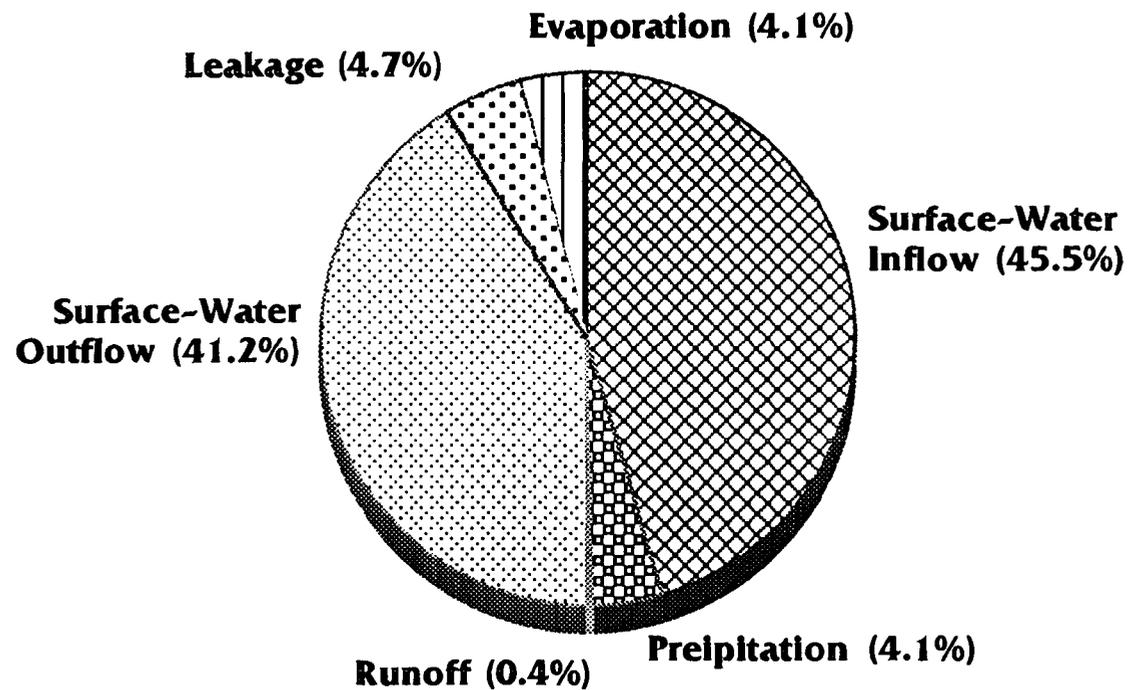


Figure 8-22. Water Budget for Magnolia Lake for 1965-1991

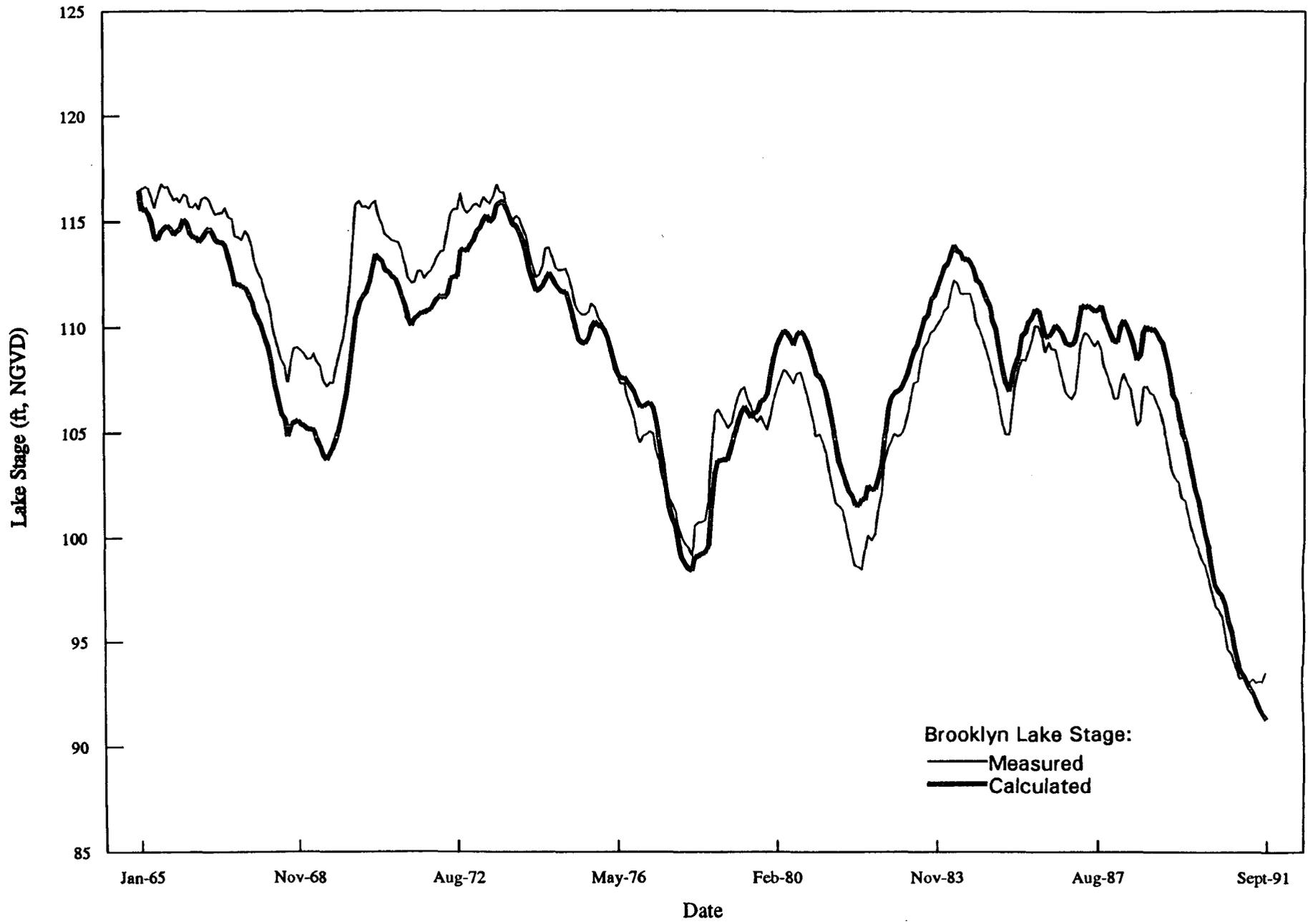


Figure 8-23. Lake-Stage Simulation for Brooklyn Lake from 1965 to 1991

lation, especially the severe drawdown that has occurred over the past several years. The mean of the differences between the calculated and the measured lake stages is 0.004 ft, and the standard deviation of the differences is 2.07 ft. During 1965-1991, leakage from Brooklyn Lake averaged 119.3 in/yr (see Figure 8-24).

Inaccuracies in the stage-discharge relationships for Magnolia Lake and Brooklyn Lake probably are the major causes of error in this simulation. These inaccuracies are amplified by the weekly time step.

8.4.5 Lake Geneva

To simulate Lake Geneva, long-term data for Upper Floridan aquifer water levels were necessary. Based on the relationship discussed in section 8.3.5, water-level elevations of the Upper Floridan aquifer at Lake Geneva were estimated from the measured Upper Floridan aquifer water-level elevations at Brooklyn Lake (see Figure 8-25). Based on this simulation, approximately 100 percent of the surface-water inflow from Brooklyn Lake reaches Lake Geneva.

Results of the long-term simulation of Lake Geneva are poor (see Figure 8-26). The mean of the differences between the calculated and measured lake stages is 11.77 ft, and the standard deviation of the differences is 3.46 ft. The simulated lake stage is consistently 9 to 12 ft below the measured lake stage. Obviously, this simulation is much less accurate than the other simulations. Small inaccuracies in the stage-discharge relationships for Brooklyn Lake and Lake Geneva, the leakance value for Lake Geneva, and the Upper Floridan aquifer water level at Lake Geneva are probably not responsible for such a large error, and more data are required to analyze this particular lake to achieve better results. Apparently, a significant inflow was unaccounted for (or an outflow was over estimated) for the 1965-1991 simulation. Based on this simulation, leakage from Lake Geneva averaged 28.5 in/yr (see Figure 8-27).

Brooklyn Lake Long-Term Lake Stage Simulation 1965-1991

Surface-Water Inflow	111.1 in/yr	Leakage	119.3 in/yr
Precipitation	51.8 in/yr	Evaporation	52.3 in/yr
Runoff	2.0 in/yr	Surface-Water Outflow	1.8 in/yr
		dS/dt	-8.5 in/yr

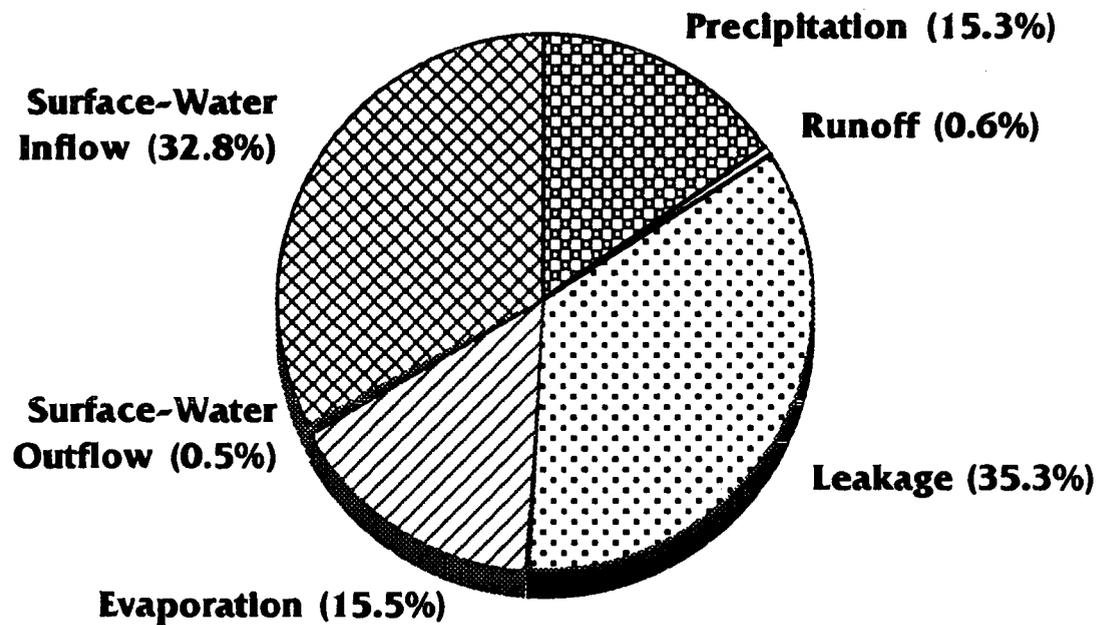


Figure 8-24. Water Budget for Brooklyn Lake for 1965-1991

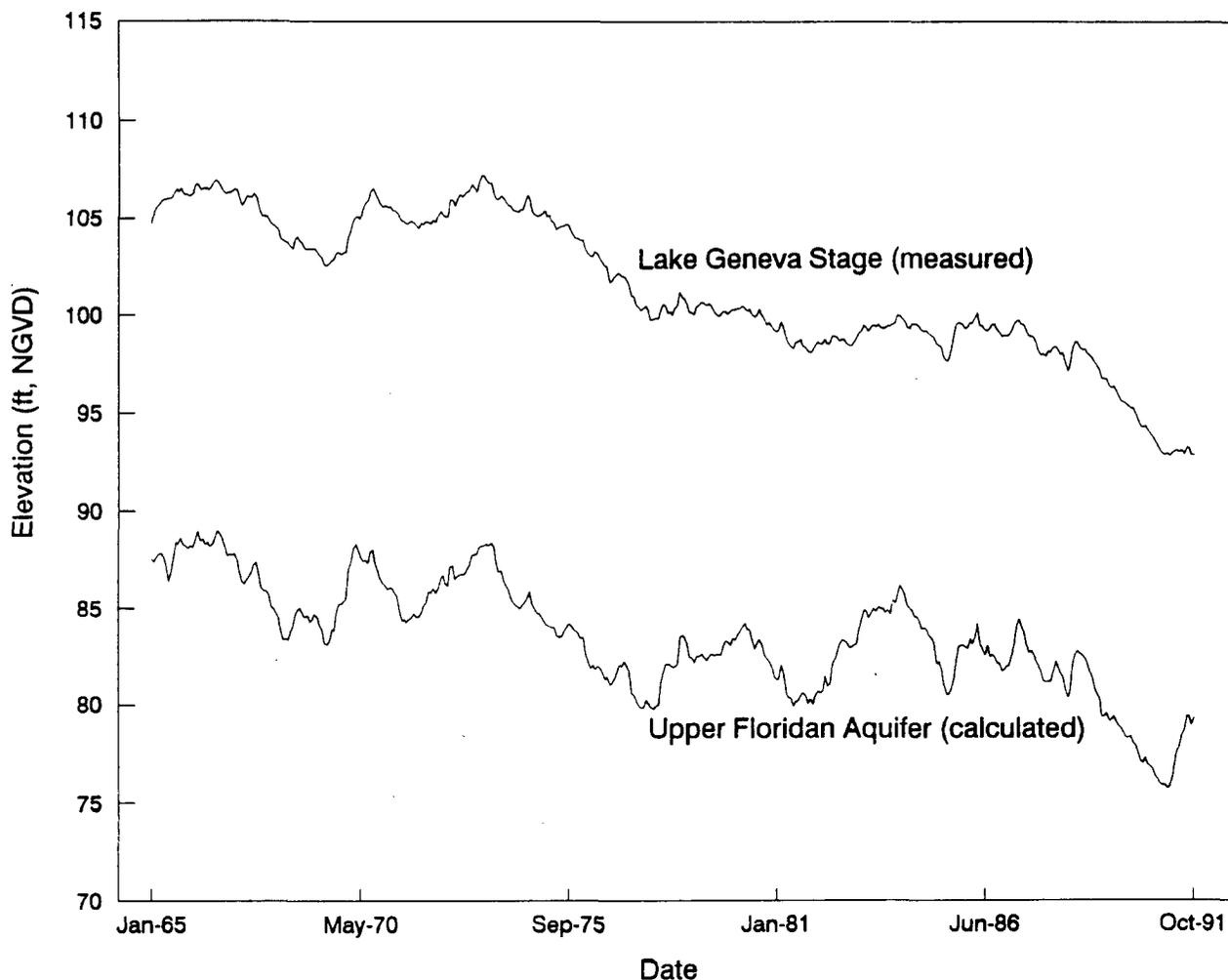


Figure 8-25. Lake Stage and Upper Floridan Aquifer Water Levels at Lake Geneva for 1965-1991

8.5 Summary of Leakance and Leakage Results

The leakance values determined from the short-term simulations ranged from $2.77 \times 10^{-4} \text{ day}^{-1}$ for Sand Hill Lake to $1.11 \times 10^{-3} \text{ day}^{-1}$ for Brooklyn Lake (see Table 8-3). During both the short-term and long-term simulations, the vertical leakage (expressed in both inches/year and as a percentage of the water budget) from Brooklyn Lake was significantly greater than the vertical leakage from the other lakes. Thus, the hydraulic connection between the lake and the Upper Floridan aquifer is greater for Brooklyn Lake than the other lakes, and a greater proportion of the water in Brooklyn Lake is lost to vertical leakage.

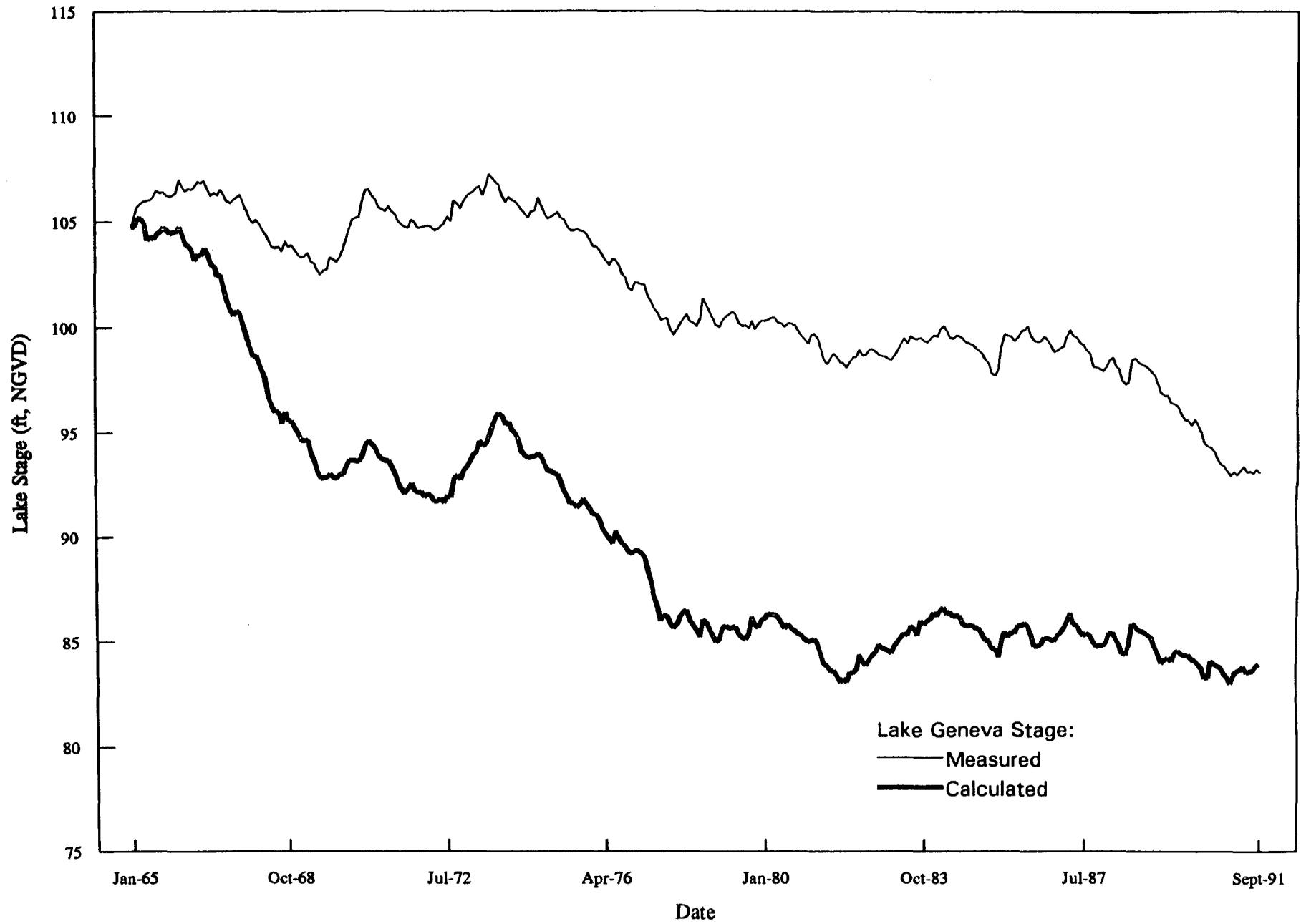


Figure 8-26. Lake-Stage Simulation for Lake Geneva from 1965 to 1991

Lake Geneva Long-Term Lake Stage Simulation 1965-1991

Precipitation	51.8 in/yr	Evaporation	52.7 in/yr
Surface-Water Inflow	10.8 in/yr	Leakage	28.5 in/yr
Runoff	6.2 in/yr	Surface-Water Outflow	0.0 in/yr
		dS/dt	-12.0 in/yr

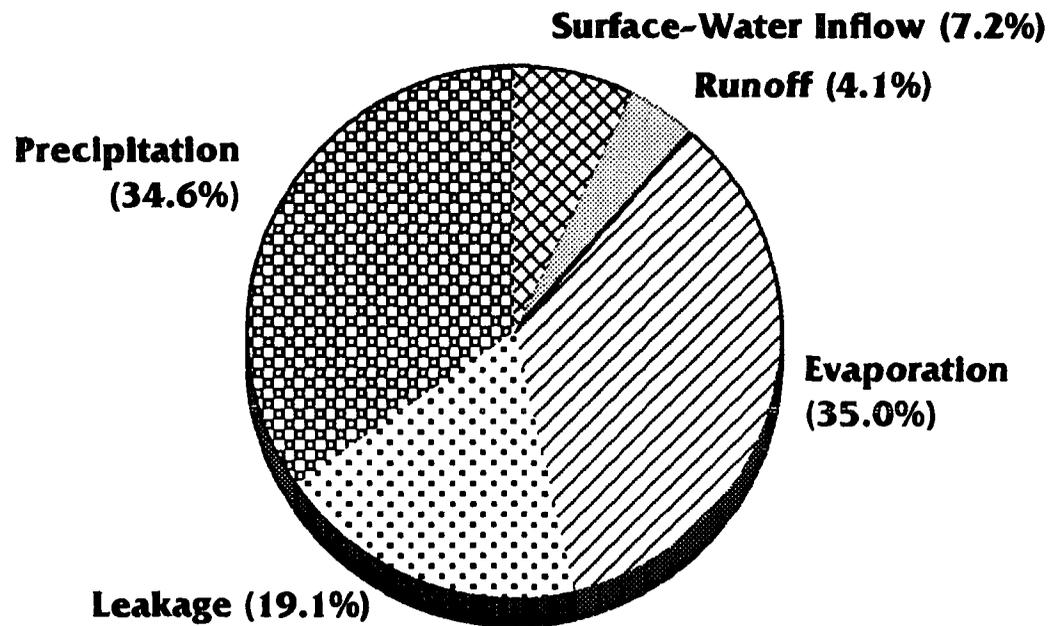


Figure 8-27. Water Budget for Lake Geneva for 1965-1991

Table 8-3. Summary of Leakance and Leakage Results

Lake	Leakance (K'/b' , day^{-1})	Leakage as Part of Water Budget			
		1989-1991		1965-1991	
		in/yr	percent	in/yr	percent
Sand Hill	2.77×10^{-4}	50.1	25.5	61.9	19.0
Magnolia	3.30×10^{-4}	34.5	24.2	60.3	4.7
Brooklyn	1.11×10^{-3}	72.9	38.8	119.3	35.3
Geneva	8.07×10^{-4}	29.3	20.8	28.5	19.1

8.6 Effects of Groundwater Levels and Inflow on Brooklyn Lake

The long-term simulation for Brooklyn Lake was used to investigate the effects on lake stage that could have occurred due to changes in Upper Floridan aquifer water levels and inflow received from Magnolia Lake.

8.6.1 Constant Drawdown in Upper Floridan Aquifer Water Levels

To simulate a constant impact over the period of simulation, it was assumed that the water level in the Upper Floridan aquifer in well C-0120 at Brooklyn Lake had been 1 foot lower than had been actually recorded during the 1965-1991 period. The Brooklyn Lake simulation was re-run, with all of the other parameters held constant. The results indicate that the average impact on the Brooklyn Lake stage elevation would have been 0.46 ft and the maximum impact would have been 0.76 ft (see Figure 8-28).

These results can be used to estimate the impact that pumping at the Gold Head sand mine has had on Brooklyn Lake. The center of pumping at the Gold Head sand mine is approximately 15,000 ft from Brooklyn Lake (see Figure 5-7). The drawdown in the Upper Floridan aquifer at this distance due to pumping 2.09 mgd ($279,000 \text{ ft}^3/\text{day}$) is approximately 0.17 ft, based on using the Jacob (1946) steady-state leaky aquifer equation and a transmissivity of $497,000 \text{ ft}^2/\text{day}$ and a leakance of $6.59 \times 10^{-5} \text{ day}^{-1}$ (Motz, 1989). Based on the Brooklyn Lake simula-

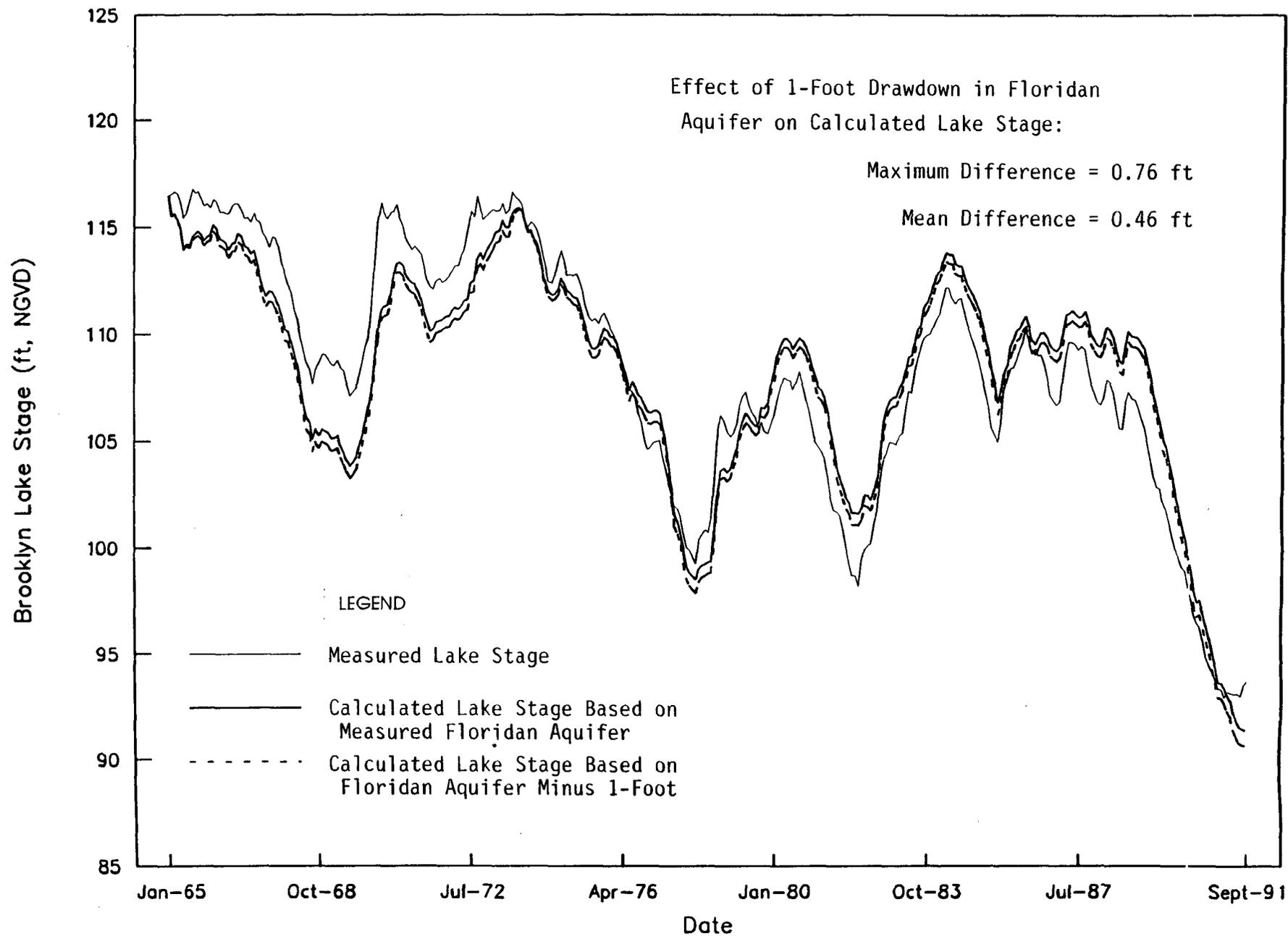


Figure 8-28. Effect of 1-Foot Drawdown in Upper Floridan Aquifer on Brooklyn Lake

tion described above, a 0.17-ft drawdown in the Upper Floridan aquifer water level at Brooklyn Lake proportionally would have caused an average lowering of 0.08 ft and a maximum lowering of 0.13 ft in the Brooklyn Lake stage elevation.

8.6.2 Long-Term Trend in Upper Floridan Aquifer Water Levels

To simulate regional trends in the Upper Floridan aquifer, it was assumed that the long-term water level in well C-0120 had been constant rather than trending downward over its period of record. In this well, the water level decreased approximately 9 ft from 1965 to 1991 (see Figure 7-8). A constant linear increase was applied to the observed groundwater level for 1965-1991 so that the 1991 groundwater level was 9.2 ft higher than what had actually been measured at this well. The Brooklyn Lake simulation was re-run, with all of the other parameters held constant. The results indicate that an average decline of 2.1 ft and a maximum decline of 6.7 ft in the Brooklyn Lake stage elevation can be attributed to the regionally downward trend in the Upper Floridan aquifer water level as measured at C-0120 (see Figure 8-29).

8.6.3 Changes in Inflow at Brooklyn Lake

A third simulation investigated the impact of increasing the percent of discharge from Magnolia Lake that reaches Brooklyn Lake. It was assumed that 100 percent of the discharge from Magnolia Lake reached Brooklyn Lake, and the Brooklyn Lake simulation was re-run, with all of the other parameters held constant. The results indicate that the Brooklyn Lake stage elevation would have been nearly 5 ft higher for part of 1987 if this condition could have been achieved (see Figure 8-30). However, the simulation also indicates that the decline in 1991 still would have occurred, because the discharge from Magnolia Lake was zero. As also noted by Clark et al. (1963), Brooklyn Lake falls rapidly when the discharge from Magnolia Lake ceases.

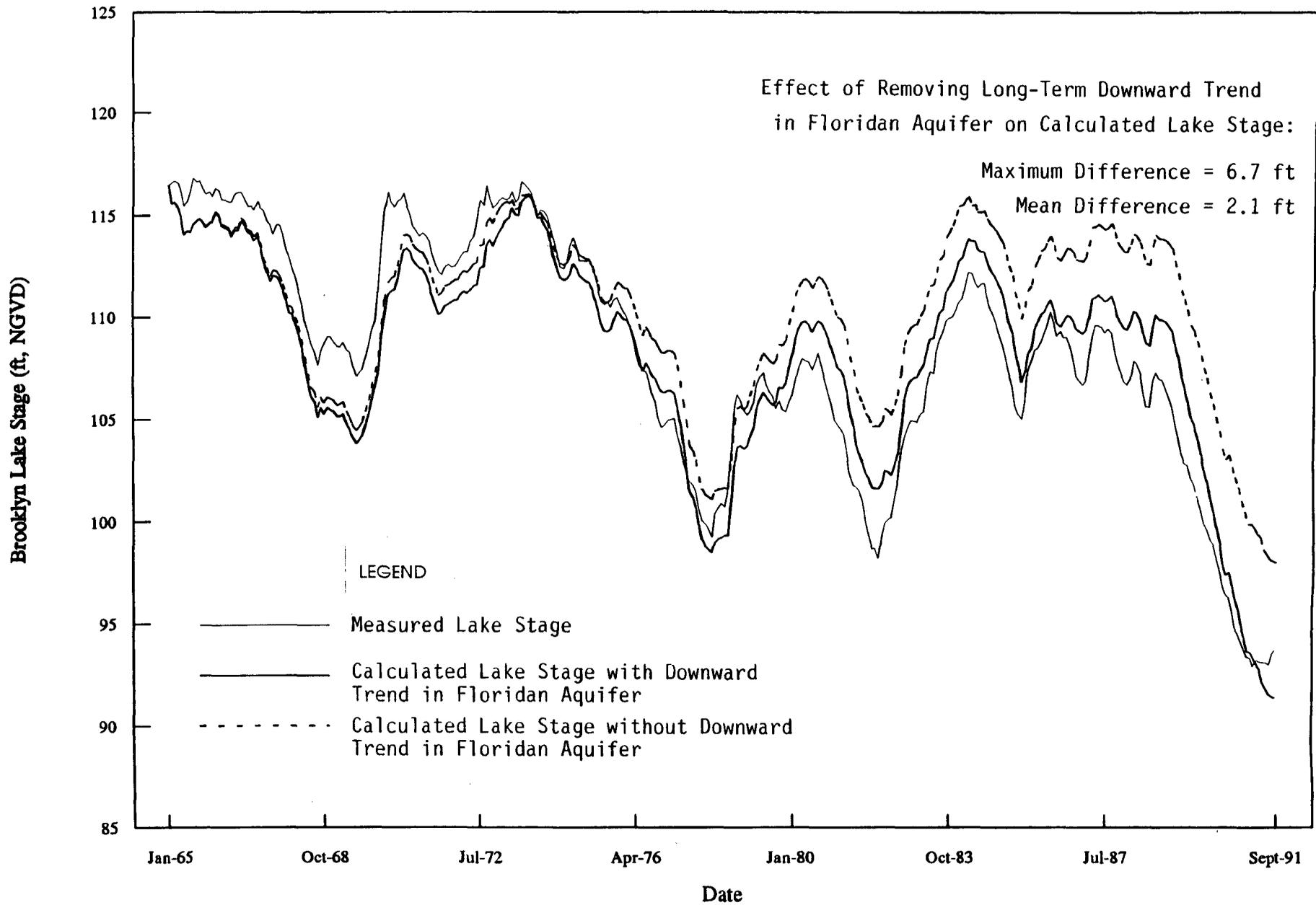


Figure 8-29. Effect of 1965-1991 Decline in Upper Floridan Aquifer on Brooklyn Lake

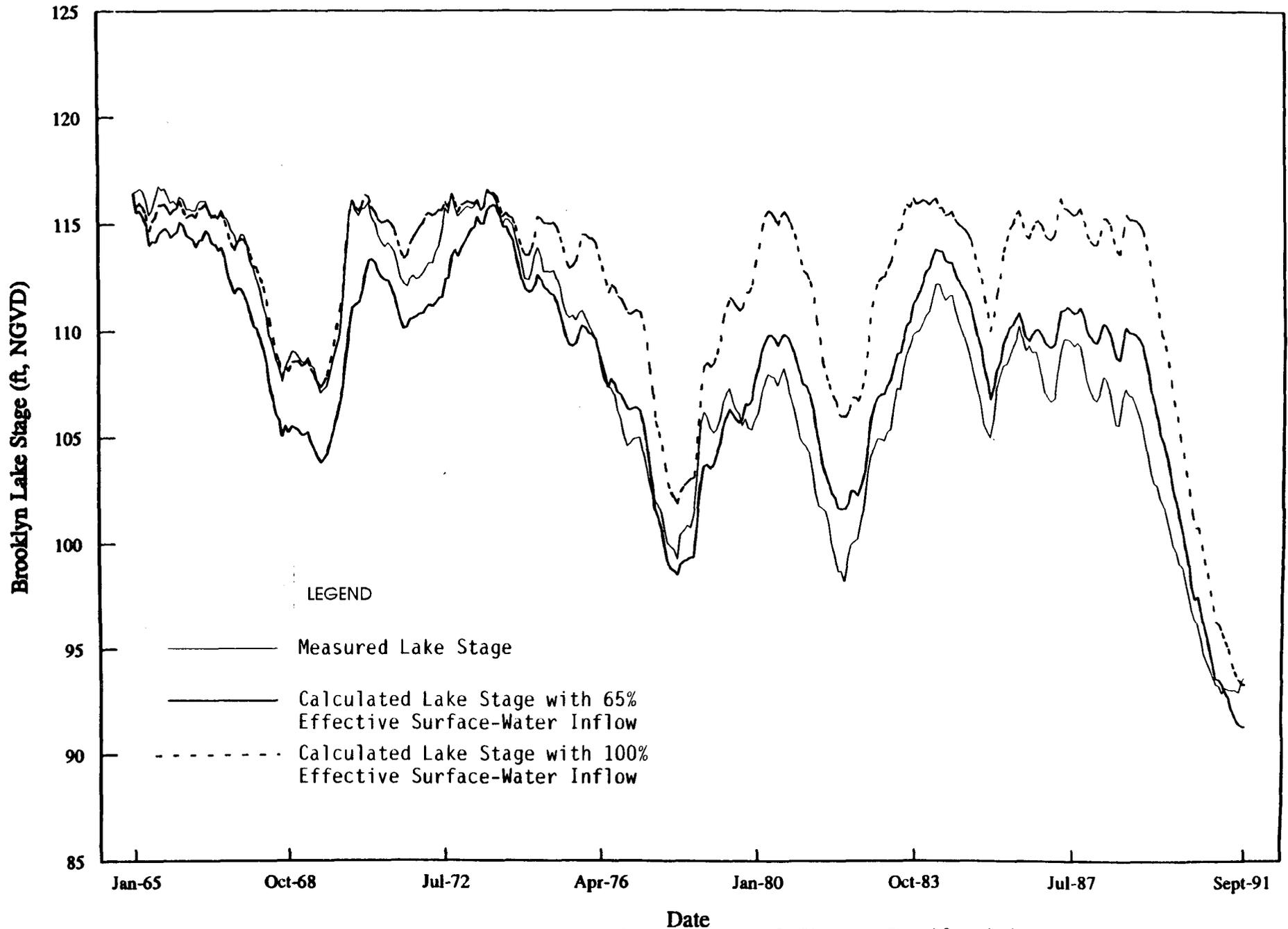


Figure 8-30. Effect of Increased Surface-Water Inflow on Brooklyn Lake

9.0 SUMMARY AND CONCLUSIONS

9.1 Summary

The Upper Etonia Creek Basin (UECB), located in parts of Alachua, Bradford, Clay, and Putnam counties in north-central Florida, is part of the lower St. Johns River Basin. Many of the lakes in the UECB coincide with karst features formed by solution of the underlying limestone, and a hydraulic connection exists between the lakes and the underlying Upper Floridan aquifer. In recent years, lake levels have declined by significant amounts in some parts of the area. This has prompted Clay County and concerned citizens in the area to request that the St. Johns River Water Management District (SJRWMD) investigate the water resources of the area. In January 1990, SJRWMD authorized the University of Florida (UF) to conduct an investigation to evaluate long-term changes and trends in rainfall, evapotranspiration, and water use. In the first phase of the investigation, below average rainfall over the past several years was identified as the primary cause of the lake-level declines in the UECB. A second phase was recommended to investigate some of the hydrologic factors in more detail. The second phase has consisted of compiling and evaluating hydrogeologic data, developing a groundwater model, simulating lake stages using water-budget data, and estimating the impacts on the stage of Brooklyn Lake that would be caused by draw-downs in the Upper Floridan aquifer and changes in the surface-water inflow to Brooklyn Lake.

Rainfall data in the UECB are sparse and available only for short periods of time. The nearest long-term stations are at Gainesville, Melrose, Palatka, and Starke, all located outside but adjacent to the UECB. At Gainesville, the mean annual rainfall for 1897-1991 is 51.04 inches. Short-term precipitation data are available for the UECB at eight rain gages installed by SJRWMD beginning in 1988. For the limited period of record, the monthly and annual precipitation

at each of these gages generally is similar. For the short-term record, the precipitation at these gages was less than the precipitation recorded at Gainesville. As the periods of record for these gages become better established, these gages have the potential to provide more accurate precipitation data for the UECB than the stations adjacent to the UECB.

The geologic units in the UECB form a hydrologic system that consists of the surficial, intermediate, and Floridan aquifer systems. The surficial aquifer system is the uppermost of the three aquifers, and it is under water-table conditions. The intermediate aquifer system is an artesian aquifer bounded by two (upper and lower) confining units. The Floridan aquifer system is the deepest of the three aquifers, and it is separated from the intermediate aquifer system by the lower confining unit. The Floridan aquifer system is comprised of the Upper and Lower Floridan aquifers, which are separated by a confining unit. A major groundwater mound in the Upper Floridan aquifer centered in the Keystone Heights area indicates that the lakes and surficial aquifer system are a major source of recharge to the Upper Floridan aquifer in this area. The elevation of the groundwater mound decreased approximately five feet from May 1978 to September 1989. The Keystone Heights well (C-0120) has a period of record from 1960 to the present, and it declined from 91.38 ft, NGVD, in October 1960 to 75.74 ft, NGVD, in January 1991. Declines during 1934-1976 in other parts of Clay County due to municipal and agricultural pumping also have been reported. Groundwater is pumped from the Upper Floridan aquifer in the UECB for public supply, agriculture, and mining. The total pumpage is approximately 7 million gallons per day (mgd). By comparison, groundwater pumping totals approximately 173 mgd in Duval County and 20 mgd at the Gainesville Regional Utilities Murphree Wellfield.

Surficial, intermediate, and Upper Floridan aquifer wells in the UECB were inventoried, and lake levels and groundwater levels were compiled for selected locations. Lithologic descriptions and geophysical logs compiled by SJRWMD were

used to identify geologic and hydrologic units to construct a hydrogeologic section through part of the UECB, and in-situ permeability tests, or slug tests, were performed in five wells to obtain estimates of hydraulic conductivity. The hydrogeologic section extended across approximately eight miles in the northern part of the UECB.

A two-dimensional, vertical groundwater model was constructed to represent the hydrogeologic section through the northern part of the UECB. The McDonald-Harbaugh modular finite-difference groundwater flow model was selected for this application. The five hydrologic units were represented by varying the aquifer parameters and boundary conditions, and impacts due to pumping at the Gold Head sand mine were represented by a line sink of wells distributed vertically in part of the cross-section. The simulated hydraulic heads in the cross-section matched the observed heads very closely. Based on the simulation, the transmissivities of the surficial, intermediate, and Upper Floridan aquifers are 625, 11,250, and 413,000 ft²/day, respectively. The leakance of the upper confining unit ranges from $2.1 \times 10^{-5} \text{ day}^{-1}$ to $1.3 \times 10^{-4} \text{ day}^{-1}$, and the lower confining unit leakance ranges from $1.0 \times 10^{-5} \text{ day}^{-1}$ to $1.1 \times 10^{-3} \text{ day}^{-1}$.

Surface-water and groundwater data were compiled to conduct water-budget analyses and lake-stage simulations for lakes Sand Hill, Magnolia, Brooklyn, and Geneva. In the UECB, a lake gains water by means of precipitation, runoff, surface-water inflow, and groundwater inflow, and it loses water by means of evaporation, surface-water outflow, groundwater outflow, and vertical leakage to the underlying Upper Floridan aquifer. A short-term simulation for 1989-1991 was conducted for each of the four lakes, using a daily time step, and leakance values for each lake were calculated. A long-term simulation for 1965-1991 was then conducted for each of the lakes, using a weekly time step and the leakance value for each lake determined from the short-term simulation. The leakance

values determined from the short-term simulations ranged from $2.77 \times 10^{-4} \text{ day}^{-1}$ for Sand Hill Lake to $1.11 \times 10^{-3} \text{ day}^{-1}$ for Brooklyn Lake.

9.2 Conclusions

Statistical comparisons of monthly and annual rainfall data from the four rain gages at Gainesville, Melrose, Palatka, and Starke for the periods of record for which comparable data are available indicate that the rainfall amounts are very nearly the same at these gages. The period of record for the Gainesville gage is 1897 to the present, and it is considered to be an accurate representation of the long-term rainfall in the UECB, based on the statistical similarities that exist among the four stations that are adjacent to the UECB. Although the rainfall recorded at Gainesville was below average for 1989-1990, the rainfall in the UECB may have been even less during this period, based on rainfall amounts reported for the gages installed in the UECB beginning in 1988. It is not possible at this time to determine if the long-term annual rainfall in the UECB is significantly different from areas such as Gainesville, however, because the period of record is not long enough for a meaningful statistical comparison.

Three major trends have been recorded in the long-term annual rainfall at Gainesville, based on a plot of the cumulative departure from the mean annual rainfall. The rainfall was consistently below average during 1897-1943, significantly above average during 1944-1972, and below average during 1973-1991. Short-term trends also have occurred. For example, the annual rainfall during 1954-1956 was 27.17 inches below average during a major state-wide drought that occurred during the 1944-1972 period of above average rainfall.

Concerns about lake-level declines in the UECB over the last few years are exemplified by Brooklyn Lake, which has fluctuated more than 24 ft over its period of record. A comparison of the cumulative departure from mean annual rainfall at Gainesville with the Brooklyn Lake stage indicates a general correla-

tion between periods of low rainfall and lowered stages in Brooklyn Lake. Periods of below average rainfall in 1954-1956, 1961-1963, 1976-1978, and 1980-1981 were followed by lowered lake stages in 1957-1958, 1963, 1978, and 1982, respectively. Also, there appears to be a similar relation to below average rainfall in 1984-1985, 1987, and 1989-1990 and lowered lake stages in 1985, 1987, and 1991-1992, respectively. This qualitative but clearly observable relation indicates that rainfall deficiencies that occur for several years are a major factor in lowering the stage in Brooklyn Lake. A double-mass curve for lake-stage elevations for Brooklyn Lake versus monthly rainfall at Gainesville for 1965-1991 has a constant, linear slope, indicating that the relation between rainfall and the stage of Brooklyn Lake did not change during 1965-1991. One of the major factors that affects the stage at Brooklyn Lake is the water level in the Upper Floridan aquifer. A double-mass curve for the stage at Brooklyn Lake versus the water level in well C-0120 at Keystone Heights has a constant slope, indicating that the relation between the Upper Floridan aquifer water levels and the stage of Brooklyn Lake also did not change during 1965-1991.

Based on lake and groundwater levels measured on July 15, 1991, discharge was occurring from the upper part of the surficial aquifer into lakes Brooklyn, Geneva, Pebble, and Sand Hill. At Sand Hill Lake, additional water level data indicate that discharge also was occurring from the lake into the lower part of the surficial aquifer. The direction of groundwater flow in the intermediate aquifer is to the southeast from the area in the vicinity of Sand Hill Lake. An area between Pebble Lake and Lake Johnson bounded by the 85 ft, NGVD, water-level contour is an area of significant discharge from the intermediate aquifer to the underlying Upper Floridan aquifer. Discharge also occurs from the intermediate aquifer in the vicinity of Brooklyn Lake. Hydraulic head relations suggest that flow occurs from both Brooklyn Lake and the intermediate aquifer downward into the Upper Floridan aquifer at this location. The direction of groundwater flow

in the Upper Floridan aquifer is generally to the east and northeast, but a significant bulge in the potentiometric surface occurs in the vicinity of White Sands Lake. This feature generally coincides with the area of discharge in the overlying intermediate aquifer, and it indicates an area of significant recharge to the Upper Floridan aquifer. This could be a naturally occurring feature or it could be related to activities at nearby Gold Head sand mine. Observation wells at the sand mine indicate that some water levels in the surficial and intermediate aquifers adjacent to the dredge pond at the mine are higher than ambient levels and reflect the influence of elevated water levels in the dredge pond.

The simulations for Magnolia and Brooklyn lakes represent actual hydrologic conditions and responses very closely, based on very good agreement between the simulated and actual lake stages for these lakes during 1965-1991. The simulation for Sand Hill Lake is fairly good; the simulation for Lake Geneva is poor, and more data than are available at present are needed to analyze this lake to achieve better results. Vertical leakage from Brooklyn Lake was 72.9 inches/year during 1989-1991; it was 119.3 inches/year during 1965-1991 when the lake stage was higher and thus the head difference between the lake and the Upper Floridan aquifer was greater. During both the short-term and long-term simulations, the vertical leakage (expressed in both inches/year and as a percentage of the water budget) from Brooklyn Lake was significantly greater than the vertical leakage from the other lakes. Thus, the hydraulic connection between the lake and the Upper Floridan aquifer is greater for Brooklyn Lake than the other lakes, and a greater proportion of the water in Brooklyn Lake is lost to vertical leakage, compared to the other lakes.

The long-term simulation for Brooklyn Lake for 1965-1991 was used to investigate the effects on lake stage that could have occurred due to changes in Upper Floridan aquifer water levels and inflow received from Magnolia Lake.

Brooklyn Lake would have been lower by an average of 0.46 ft and a maximum of 0.76 ft during 1965-1991 due to a 1-foot drawdown in the Upper Floridan aquifer. The drawdown in the Upper Floridan aquifer at Brooklyn Lake due to pumping at the Gold Head sand mine was estimated to be 0.17 ft. Based on the simulation, a 0.17 ft drawdown in the Upper Floridan aquifer at Brooklyn Lake proportionally would have caused an average lowering of 0.08 ft and a maximum lowering of 0.13 ft in the Brooklyn Lake stage elevation. To simulate regional trends in the Upper Floridan aquifer, it was assumed that the long-term water level in well C-0120 had been constant rather than trending downward over its period of record. The water level was increased for 1965-1991 at a constant rate so that the 1991 groundwater level was 9.2 ft higher than what was actually measured at this well. The results indicate that an average decline of 2.1 ft and a maximum decline of 6.7 ft in the Brooklyn Lake stage elevation can be attributed to the regionally downward trend in the Upper Floridan aquifer water level. A third simulation assumed that 100 percent of the discharge from Magnolia Lake reached Brooklyn Lake, and the results indicate that the lake stage would have been nearly 5 ft higher for part of 1987 if this hypothetical condition could have been achieved. The simulation also indicates that the precipitous decline in 1991 still would have occurred.

9.3 Recommendations

Recommendations for future action include investigations in the UECB and also in the region adjacent to the UECB. The completion of the geologic, geophysical, and hydrologic studies being conducted concurrently by SJRWMD should be expedited so that the results and conclusions of those studies can be compared with the results and conclusions of this investigation. Details of the surficial aquifer system, the Hawthorn Group, and the intermediate aquifer system in the UECB need to be delineated better. This would include geologic and hydrologic maps that show the vertical and horizontal extent of the Hawthorn Group and the

intermediate aquifer and maps of the potentiometric surface of this aquifer. The transmissivity of this unit and values for the leakance of the upper and lower confining units should be determined by aquifer pumping tests and compared to the results of the groundwater model developed along a vertical cross-section in this investigation. Also, the existence of the discharge area in the intermediate aquifer and the recharge area in the Upper Floridan aquifer in generally the same area near White Sands Lake should be investigated further.

Brooklyn Lake is a complex hydrogeologic feature that should be investigated further also. Geologic, geophysical, and hydrologic maps should be developed to show in more detail how the lake and the surficial, intermediate, and Upper Floridan aquifers are related. Aquifer transmissivities and groundwater levels on a continuous basis need to be measured at the lake. Daily values for the water-budget components precipitation, evaporation, and surface-water inflow and outflow (if any) should be determined on site for a period of time such as a year or more in order to develop better estimates for groundwater inflows and outflows and vertical leakage. This will help to confirm and refine the results of the water-budget calculations and lake-stage simulations conducted during this investigation.

Augmentation of stage levels at Brooklyn Lake by increasing inflow and/or decreasing outflow should be considered. The inflow could be increased by means of pumping from the Upper Floridan aquifer, but this may cause water-quality problems. Inflow also could be increased by maintaining more water in storage in upstream lakes and providing it to Brooklyn Lake during dry periods. Augmentation from adjacent basins such as Lake Santa Fe has been proposed in the past, but it is not likely that this is a realistic option today. If the results of the concurrent geophysical studies indicate that the hydraulic connection between the lake and the Upper Floridan aquifer is contained in a relatively small area of the lake bottom, then perhaps the bottom of part of the lake could be sealed,

thereby reducing the leakance coefficient and the vertical leakage from the lake to the Upper Floridan aquifer. The technical, legal, and regulatory feasibility of these options would have to be carefully considered, as well as the relative merit of altering the natural cycle of high and low lake stages in the UECB.

The regional decline of water levels in the Upper Floridan aquifer has had an impact on the stage of Brooklyn Lake. This impact should be investigated further by considering the regional impacts that pumping in an area extending from the eastern part of Alachua County to Duval County has had on groundwater and lake levels in the UECB. Major water use in this large area should be identified, and, along with major water use in the UECB, the cumulative impacts of the major users determined. Quantifying the impacts that present and future projected pumping would have would be a major part of this investigation.

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APPENDIX A
WELL CONSTRUCTION DATA AND LITHOLOGIC LOGS

Table A-1. Well Construction Data

Aquifer	Well Number	Name (or Location)	Elevation (ft, NGVD)	Depth (ft)	Screened Interval (ft)
Surficial	C-0438	Geneva	110.09	20	10-20
Surficial	C-0441	Sand Hill	136.09	80	60-80
Surficial	C-0444	Moody	159.24	87	67-87
Surficial	C-0455	Gold Head	136.49	42	32-42
Surficial	C-0456	Lake Lowery (Sand Hill Lake)	135.91	20	10-20
Surficial	C-0459	McRae	118.49	13	8-13
Surficial	P-0150	Lake Grandin	90.59	20	10-20
Intermediate	C-0437	Geneva	110.23	90	70-90
Intermediate	C-0440	Sand Hill	136.17	130	110-130
Intermediate	C-0443	Moody	159.12	110	90-110
Intermediate	C-0454	Gold Head	136.88	110	90-110
Intermediate	C-0458	McRae	118.22	86	66-86
Intermediate	P-0151	Lake Grandin	91.92	40	30-40
Floridan	C-0436	Geneva	110.22	180	160-180
Floridan	C-0439	Sand Hill	136.56	210	190-210
Floridan	C-0442	Moody	160.99	240	185-240
Floridan	C-0451	Magnolia	176.02	300	82-300
Floridan	C-0453	Gold Head	138.99	375	204-375
Floridan	C-0457	McRae	118.06	261	180-261

Source: SJRWMD, 1992.

Table A-2. Lithologic Description of the Lake Geneva Well (C-0436)

Depth (feet)	Lithology	
0-10	Sand, fine-medium grain size, somewhat clayey, poorly sorted, light gray-brown color, poorly lithified	
10-20	Sand, very fine-coarse grain size, very clayey, very poorly sorted, abundant heavy minerals, organic fragments, light gray-brown color, poorly lithified	
T/Hawthorn: 20-30	Dolostone, silty, phosphatic, well lithified, light-medium brown color, no visible porosity	
30-40	Silt, very sandy, very phosphatic, clayey, medium brown color, very poorly lithified	
40-60	A)	Siltstone, sandy phosphatic, medium gray-brown color
	B)	Dolostone, silty, medium gray-brown color
	C)	Phosphate pebbles, 1-2 mm
	D)	Quartz pebbles, 1-2 mm
60-80	A)	Sandstone, very fine-fine grain size, clayey, very phosphatic, fairly well lithified, fair intergranular porosity, medium gray color
	B)	Phosphate pebbles, 2 mm
80-100	Sample as above but more clayey, very calcareous	
100-120	A)	Limestone, micritic (10% grains), sandy, phosphatic, medium gray color, well lithified, no visible porosity
	B)	Sample as above
120-130	A)	Limestone, very sandy, very phosphatic, well lithified, medium gray color, poor interparticulate porosity
	B)	Sample as above
160-180	Limestone, skeletal (90% grains), Lepidocyelina, Nummulites, other forams, poorly lithified, buff to light brown-gray color, good interparticulate porosity	
180-185	Limestone, sandy-micritic, very phosphatic (medium grain size), no visible porosity, well lithified, medium-dark gray color	

Table A-2. Lithologic Description of the Lake Geneva Well (C-0436), con'd.

Depth (feet)	Lithology	
185-200	A)	Limestone, micritic, very sandy in spots, poorly sorted, large phosphate nodules, medium-dark gray color
	B)	Clay, dark gray color
200-220	Limestone, micritic, very little phosphate, slightly sandy, no visible porosity, dark gray color	
T/Floridan: 220-240	Limestone, skeletal (100% grains), Nummulites, Lepidocyclina, Amphistigina, sponge spicules, very good interparticulate porosity, poorly lithified, tan color	

Note: Original well C-0436 (drilled by American Drilling) encountered cavity @ 132 ft, and hole was abandoned. Replacement well C-0436 (drilled by SJRWMD) also encountered cavity. Casing was set @ 160-180 ft. One sample was taken below casing.

Source: SJRWMD, 1991.

Table A-3. Lithologic Description of the Sand Hill Lake Well (C-0439)

Depth (feet)	Lithology	
0-20	Sand, quartz, occasional heavy minerals, very fine to medium grain size, light gray color	
20-40	Sand, quartz, clay-coarse grain size, light gray-white color	
40-60	Sand, quartz, clay-coarse grain size, light gray-white color	
60-80	Sand, quartz, very fine to very coarse grain size, light gray color	
T/Hawthorn: 80-100	A)	Dolostone, sandy - micritic, fairly well lithified, no visible porosity, medium yellow-brown color
	B)	Sand, quartz, very coarse grain size, light gray color
	C)	Phosphate nodules, dark brown - amber color
100-120	Sample same as 80-100 ft above	
120-140	A)	Limestone, sandy-micritic, medium gray color, well lithified, poor intergranular porosity
	B)	Clay, medium brown-gray color
	C)	Sand, quartz, very coarse grain size, light gray color, loose grains
140-160	Clay, medium blue-gray color, sandy	
160-180	A)	Clay, dark blue-gray color, sandy
	B)	Limestone, sandy - micritic, very phosphatic, well lithified, medium - dark gray color
	C)	Phosphate nodules, black - amber color
180-200	Clay, medium - dark blue - gray color, sandy, phosphatic	
200-220	A)	Sand, quartz, coarse - very coarse grain size, light gray - white color
	B)	Phosphate grains, few
	C)	Limestone, skeletal (90% grains), very dolomitized, good intraparticle porosity, dark brown color

Source: SJRWMD, 1991.

Table A-4. Lithologic Description of the Moody Well (C-0442)

Depth (feet)	Lithology	
0-10	Sand, quartz very fine-fine grain size, silty, abundant heavy minerals and organic fragments, medium brown color	
10-30	Sand, quartz, very fine-coarse grain size, clayey, occasional heavy minerals, medium red-brown color	
30-50	A)	Silt, sandy, clayey, light pink color
	B)	Clay, white
50-70	Clay, silty, sandy, light red-brown color, white in spots	
70-75	A)	Clay, as above, light yellow-brown color, white in spots
	B)	Abundant organic material with some phosphate
T/Hawthorn: 75-80	A)	Siltstone, clayey, some heavy minerals medium gray color, poorly lithified
	B)	Clay, slightly sandy, dark yellow-brown color
80-100	Limestone, micritic, sandy in places, poor interparticulate porosity, white color, phosphatic nodules, poorly lithified	
100-115	A)	Limestone, as above but light brown color, very sandy in places
	B)	Phosphate nodules, black-amber color
115-120	Limestone, micritic, slightly sandy, phosphatic (amber nodules), fair intergranular porosity, light-medium brown color, fairly well lithified	
120-140	A)	Sandstone, very calcareous, fine-coarse-grain size, good intergranular porosity, fairly well lithified, tan-light brown color
	B)	Phosphate modules, black-amber color
140-160	A)	Sandstone, tan, as above
	B)	Sandstone, very clayey, very fine-fine grain size, fair intergranular porosity, dark gray-green color, fair well lithified
	C)	Phosphate modules, black-amber color

Table A-4. Lithologic Description of the Moody Well (C-0442), con'd.

Depth (feet)	Lithology
160-180	Sandstone, very calcareous in places, very phosphatic (medium grain size), fine-medium grain size, very phosphatic, very poor porosity, very clayey, dark gray-green color
180-185	Limestone, sandy-micritic, very phosphatic (medium grain size), no visible porosity, well lithified, medium-dark gray color
185-200	A) Limestone, micritic, very sandy in spots, poorly sorted, large phosphate nodules, medium-dark gray color
	B) Clay, dark gray color
200-220	Limestone, micritic, very little phosphate, slightly sandy, no visible porosity, dark gray color
T/Floridan: 220-240	Limestone, skeletal (100% grains), Nummulites, Lepidocyclina, Amphistigina, sponge spicules, very good interparticulate porosity, poorly lithified, tan color

Source: SJRWMD, 1991.

Table A-5. Lithologic Description of the Lake Magnolia Well (C-0451)

Depth (feet)	Lithology	
0-20	Silt, clayey, sandy, medium red-brown color	
20-30	Clay, silty, light-medium yellow-brown color	
30-50	Sand, clayey, fine-medium grain size, light-medium yellow-brown color	
50-70	Sample missing	
70-82	A)	Sandstone, medium-coarse grain size, very phosphatic, silty in places, numerous free quartz pebbles (<2 mm), medium brown-gray color
	B)	Phosphate nodules
82-90	A)	Limestone, micritic, sandy in places, well lithified, medium gray color
	B)	Phosphate nodules
	C)	Free quartz pebbles (<2 mm)
90-110	A)	Limestone, micritic, sandy, phosphatic, fairly well lithified, fair intergranular porosity, light brown color
	B)	Phosphate nodules
110-130	Sample as above but slightly clayey	
130-150	Clay, very sandy, very phosphatic, medium gray color	
150-170	A)	Limestone, very sandy, very phosphatic, fairly well lithified, good intergranular porosity, light brown color
	B)	Phosphate nodules
170-190	Sample, as above but silty	
190-200	Dolostone, sandy-micritic, very sandy and phosphatic, poor intergranular porosity, well lithified, medium-dark brown color	
200-220	A)	Dolostone, as above but more micritic, more skeletal material
	B)	Phosphate nodules (<3 mm)
220-240	Dolostone, as above but very sandy, less phosphatic	
240-250	Limestone, micritic, very lithified, no visible porosity, dark gray color	

Source: SJRWMD, 1991.

Table A-6. Lithologic Description of the Gold Head Well (C-0453)

Depth (feet)	Lithology	
0-20	Sand, quartz, medium-very coarse grain size, clayey, abundant organic fragments, yellow-brown color	
20-30	Sand, quartz, fine-medium grain size, slightly clayey, brown-yellow color	
30-50	A)	Sand, quartz, medium grain size, clean, clear-light brown color
	B)	Sand, quartz, medium grain size, very angular grains, orange stain
50-70 T/Hawthorn:	A)	Sand, quartz, very poorly sorted, medium-very coarse grain size, quartz pebbles (5 mm), clear-white color
	B)	Limestone, detrital-micritic, very sandy, fairly well lithified, poor intergranular porosity, light-medium brown color, abundant heavy minerals
70-80	Sand, quartz, phosphatic, medium grain size, clear-white color	
80-100	Clay, very sandy in places, abundant phosphates grains, medium blue-gray color	
100-120	Limestone, detrital-micritic, very sandy, fairly well consolidated, poor intergranular porosity, light-brown color	
120-140	A)	Clay, sandy, poorly consolidated, medium blue-gray color
	B)	Phosphate nodules, black and amber color
140-160	Clay, sandy, phosphatic, light-medium blue-gray color	
160-180	Limestone, detrital-micritic, very sandy and phosphatic, very well lithified, no visible porosity, medium-dark gray color	
180-200 (Ocala Ls): T/Floridan	A)	Limestone, as above, medium-dark gray color
	B)	Limestone, micritic-skeletal, poorly lithified, poor intergranular porosity, tan color
200-220	Limestone, skeletal (80% grains), mostly individual particles, very poorly lithified, Nummulites, Amphistegina, algal fragments, very good interparticulate porosity, tan color	

Table A-6. Lithologic Description of the Gold Head Well (C-0453), con'd.

Depth (feet)	Lithology
220-240	Limestone, skeletal (75% grains), as above
240-260	Limestone, micritic-skeletal (25% grains), fine grained texture, fairly well lithified, fair interparticulate porosity, white to tan color
280-300	Limestone, skeletal-micritic (50% grains), Nummulites and other forams, fair interparticulate porosity, fairly well lithified, white to tan color
300-320	Limestone, as above but less micritic
320-340	A) Limestone, as above, white-tan color
	B) Limestone, detrital-micritic, well lithified poor interparticulate porosity, light brown-gray color
340-355	Limestone, micritic-skeletal, finely fragmental, fairly well lithified, poor intergranular porosity, light brown-gray color
355-380	Limestone, micritic, very fine sucrosic texture, well lithified, very poor intergranular porosity, light brown color

Source: SJRWMD, 1991.

Table A-7. Lithologic Description of the McRae Well (C-0457)

Depth (feet)	Lithology	
0-10	Sand, fine-medium grain, quartzose, well rounded, light brown color	
T/Hawthorn: 10-30	Clay, very sandy -fine- coarse grain size, abundant heavy minerals, light yellow-brown color	
30-50	A)	Limestone, loose shell debris, very poorly lithified, good porosity and permeability, light brown color
	B)	Clay, very sandy -fine- coarse grain size, very phosphatic, medium brown color
50-60	Limestone, micritic (10% grains) skeletal, sandy, dolomitized, fairly well lithified, fair intergranular porosity, medium brown color	
60-80	A)	Limestone, very sandy, very phosphatic, slightly shelly 90% grains, fairly well lithified, good intergranular porosity, medium brown color
	B)	Phosphate - large nodules, black to dark amber color
80-100	Sample as above but clayey, finer grain size	
100-120	A)	Limestone, micritic, slightly sandy, slightly phosphatic, very clayey, well lithified, poor intergranular porosity, medium brown-gray color
	B)	Phosphate, coarse grain size, black color
120-140	Limestone, micritic, slightly sandy, slightly clayey, well lithified, very poor intergranular porosity, medium brown-gray color	
140-160	A)	Limestone, as above but more phosphatic, coarse grain size
	B)	Sand, very coarse grain size, very well rounded, loose grains
	C)	Phosphatic nodules (>2 mm), black to dark gray color
160-165	Sample same as above	
165-180	Sample missing	

Table A-7. Lithologic Description of the McRae Well (C-0457), con'd.

Depth (feet)	Lithology	
180-200 T/Floridan (Ocala):	A)	Limestone, skeletal (95% grains), very abundant small forams (Amphistegina, Globigerina, Camerina, etc.), loose grains, light brown color, excellent intergranular porosity
	B)	Limestone, skeletal (75% grains), Lepidocyclina, Nummulites, unconsolidated, good intergranular porosity, medium brown color
Avon Park: 220-240	Limestone, skeletal-micritic (40% grains), fine texture (calcarenite), algal mat debris, well lithified, medium gray-brown color, fair intergranular porosity	
240-260	Limestone, skeletal (75% grains), calcarenite, fairly well lithified, good inter- and intra-particle porosity, light brown color	

Source: SJRWMD, 1991.

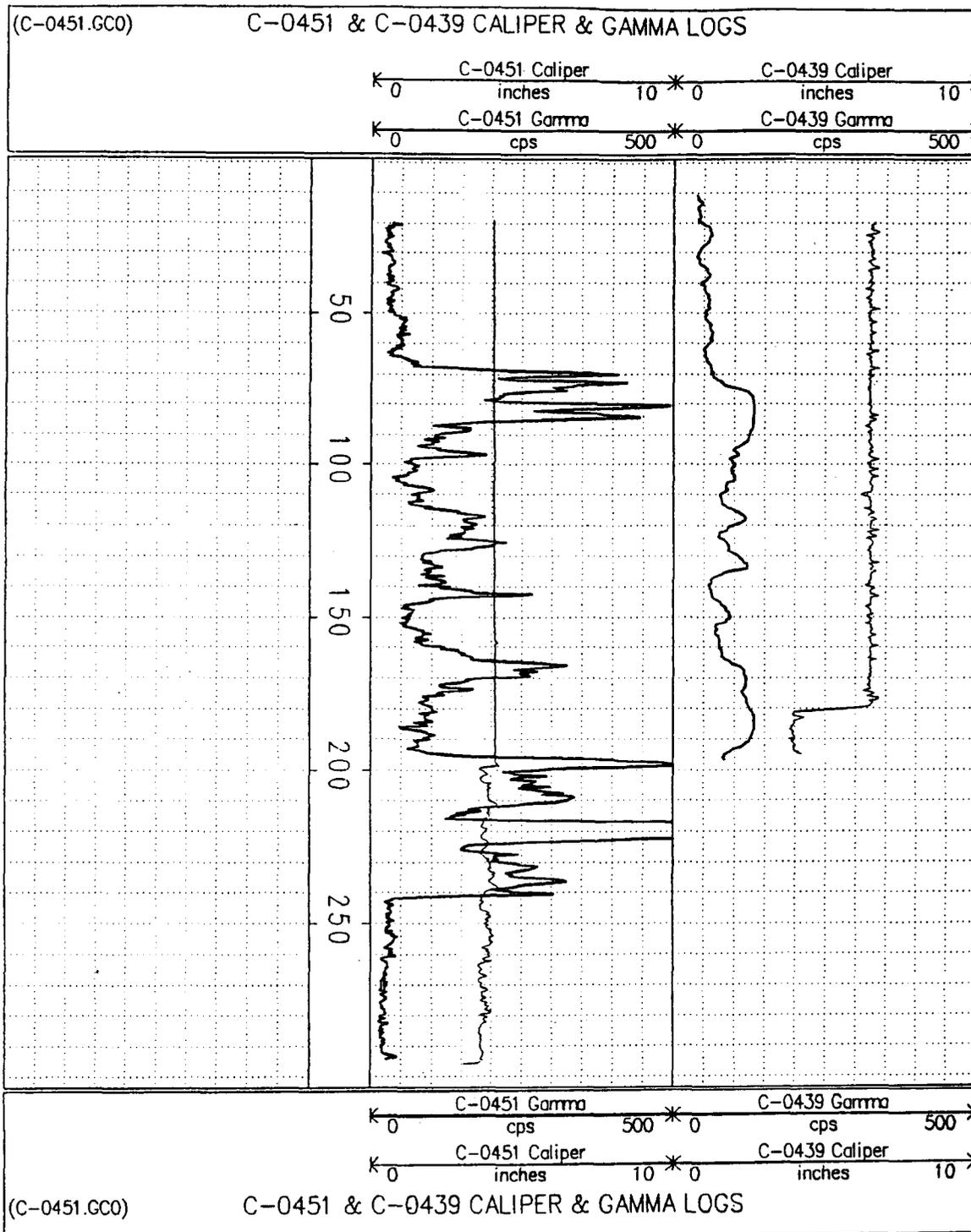


Figure A-1. Geophysical Logs for Wells C-0439 and C-0451
 (Source: SJRWMD, 1991)

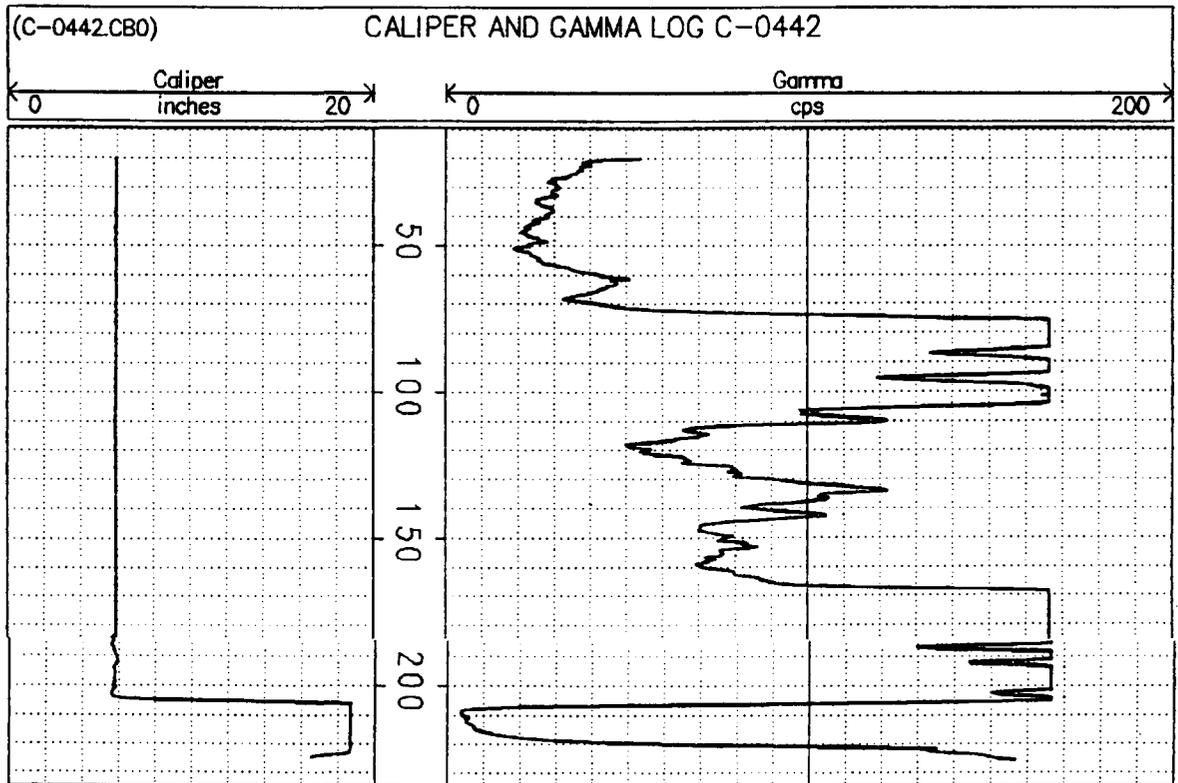


Figure A-2. Geophysical Log for Well C-0442
 (Source: SJRWMD, 1991)

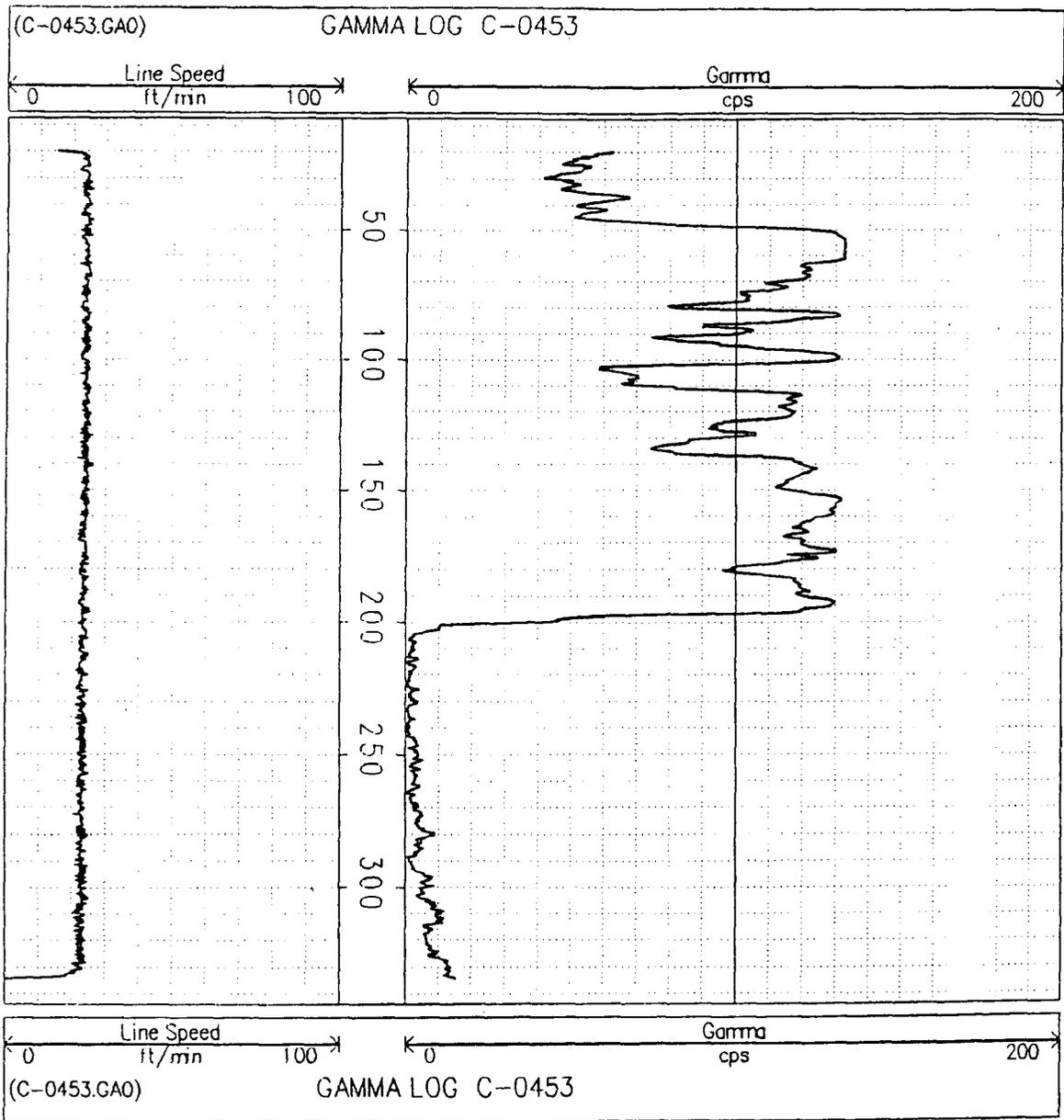


Figure A-3. Geophysical Logs for Well C-0453
 (Source: SJRWMD, 1991)

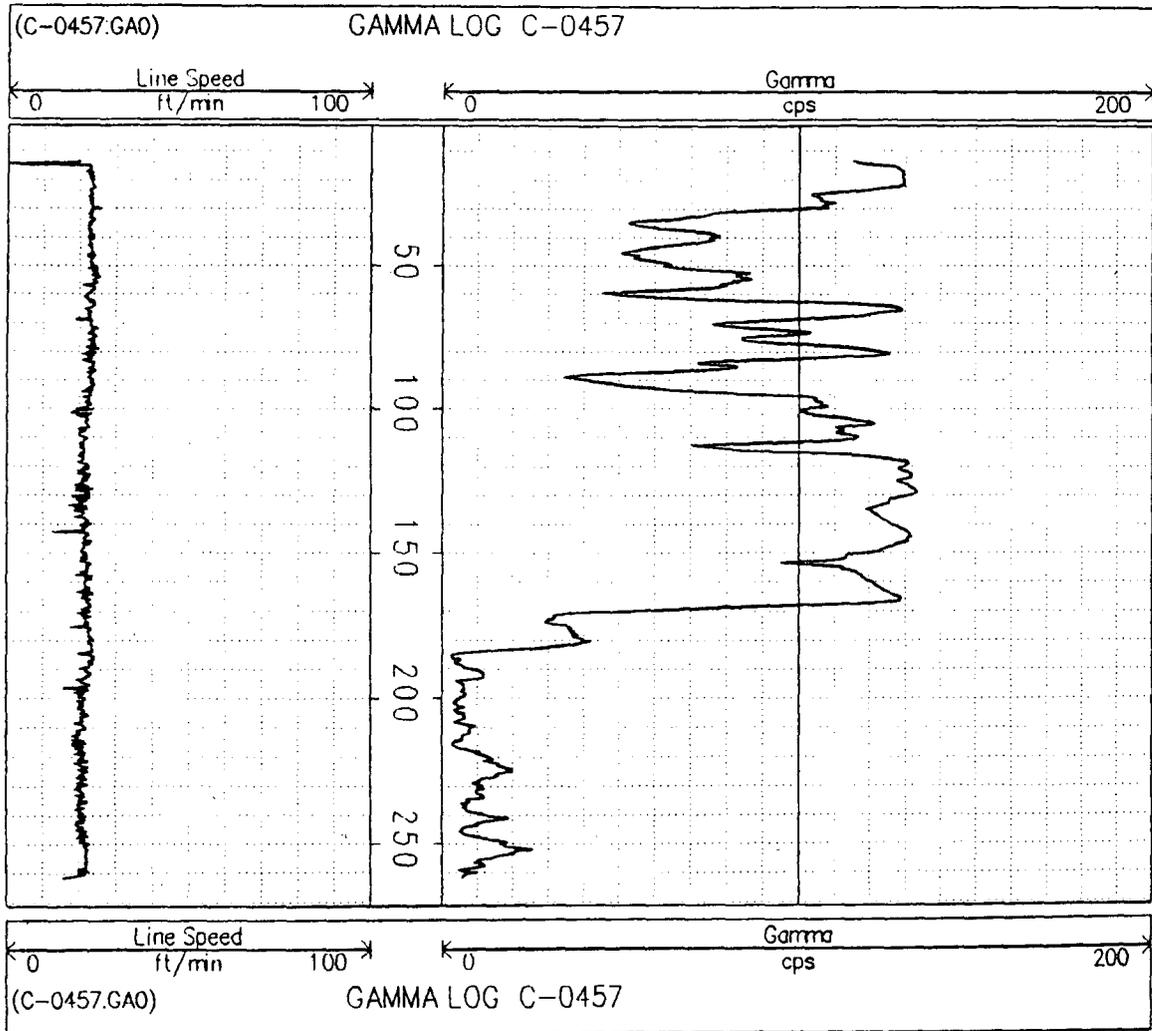


Figure A-4. Geophysical Logs for Well C-0457
 (Source: SJRWMD, 1991)

APPENDIX B
SLUG TEST DATA

Slug tests were performed in five wells to obtain estimates of hydraulic conductivity (see Figures B-1 through B-5). The Hvorslev (1951) method (described by Freeze and Cherry, 1979) for point piezometers was used to calculate the hydraulic conductivity from each set of slug test data (see Table B-1), using equation B-1:

$$K = \frac{r^2 \ln(L/R)}{2LT_o} \quad (B-1)$$

where: K = hydraulic conductivity (L T⁻¹);
ln = natural logarithm;
L = screen length (L);
R = radius of screened portion of piezometer (L);
r = radius of cased portion of piezometer (L); and
T_o = basin time lag (T).

The basin time lag T_o is the time at which (H-h)/(H-H_o) = 0.37 (see Figures B-1 through B-5).

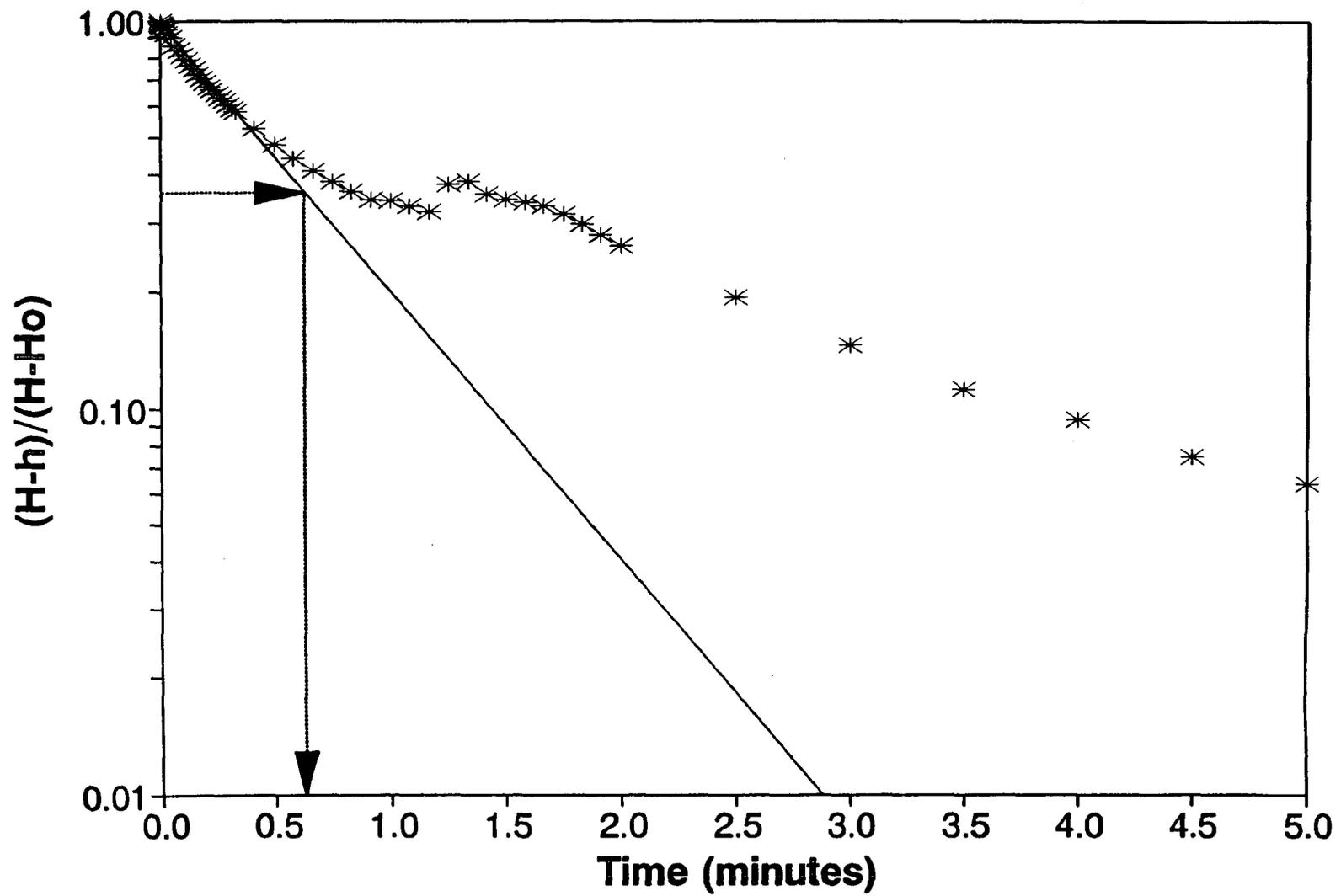


Figure B-1. Slug-Test Data for Well C-0130

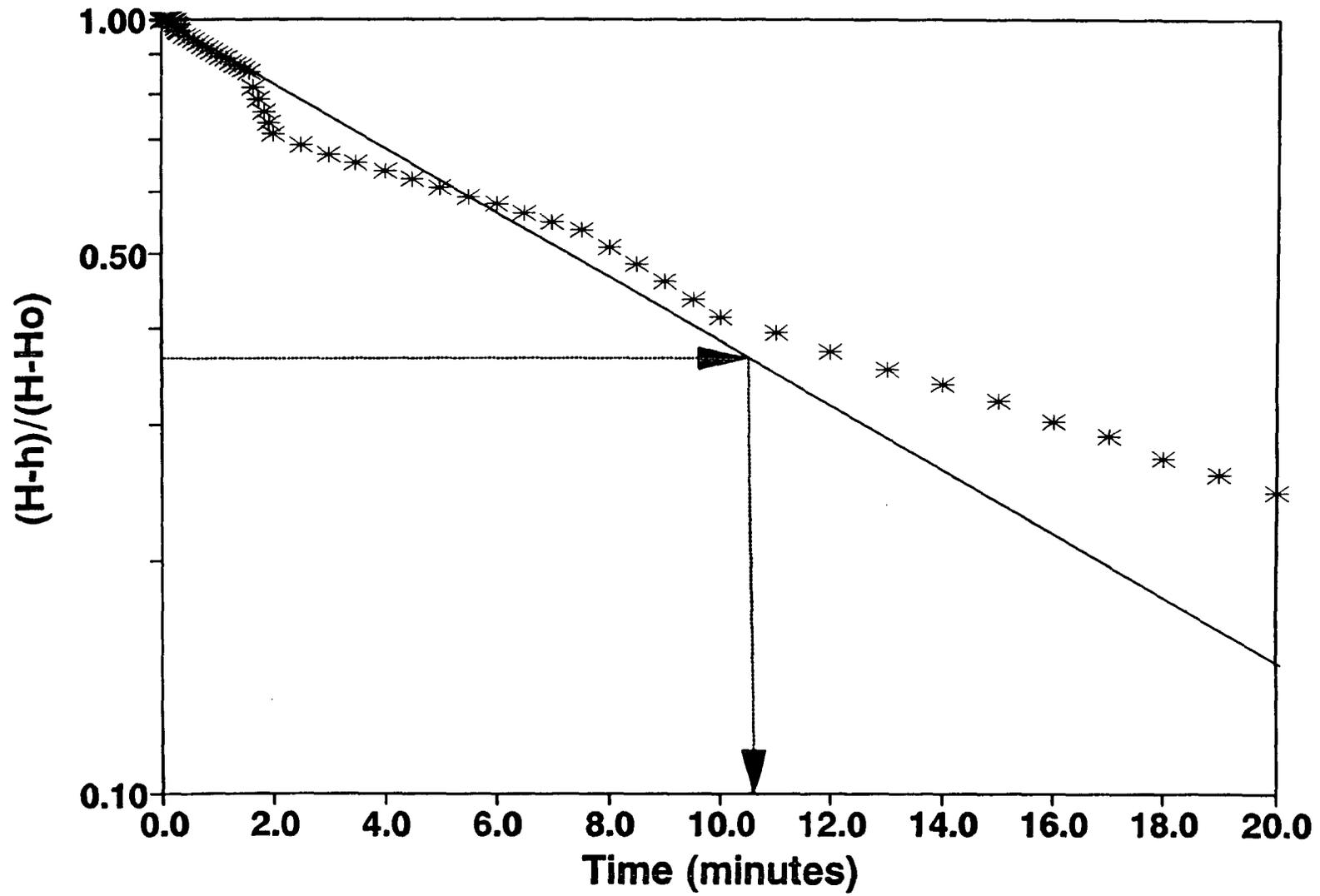


Figure B-2. Slug-Test Data for Well C-0444

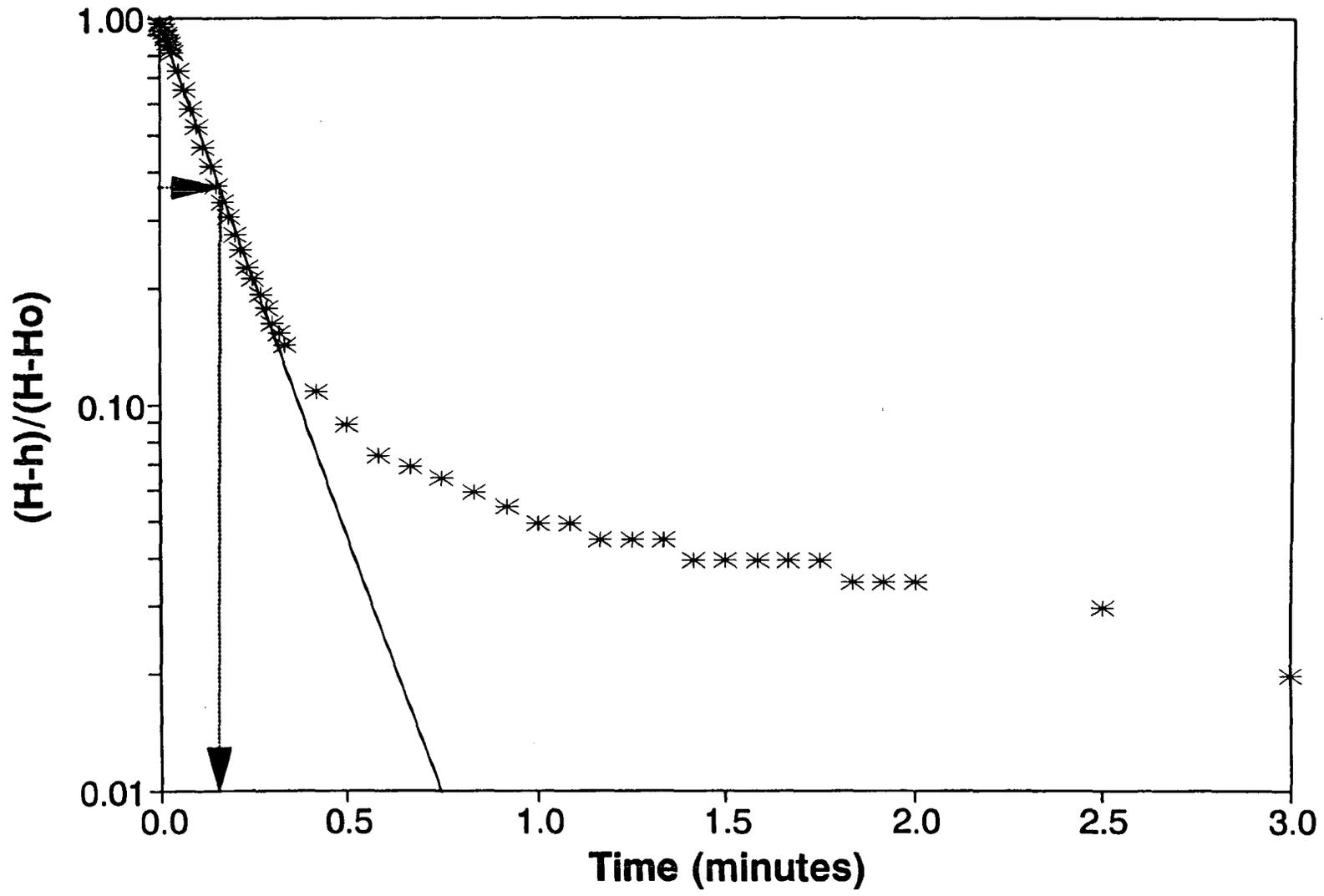


Figure B-3. Slug-Test Data for Well C-0116

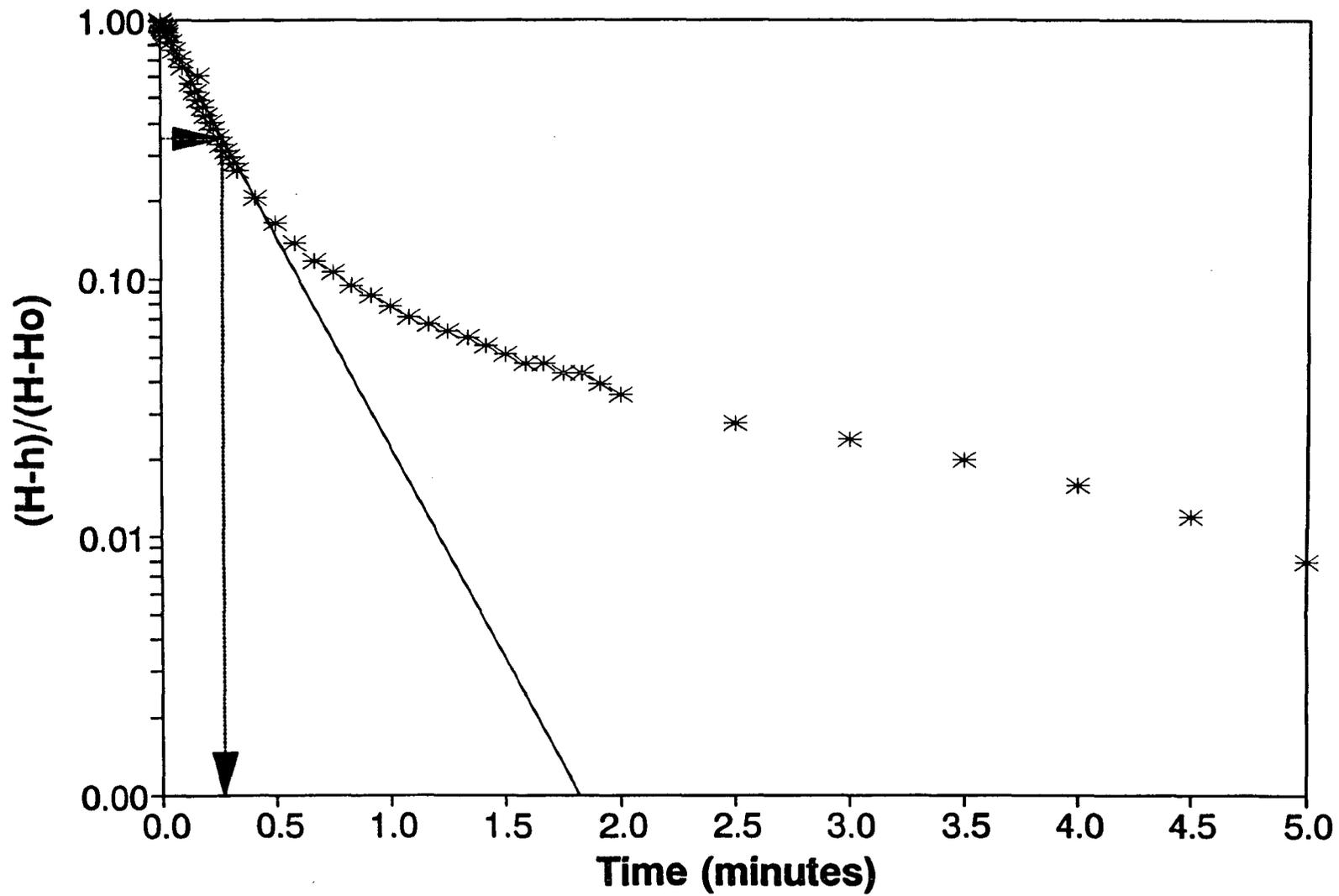


Figure B-4. Slug-Test Data for Well C-0409

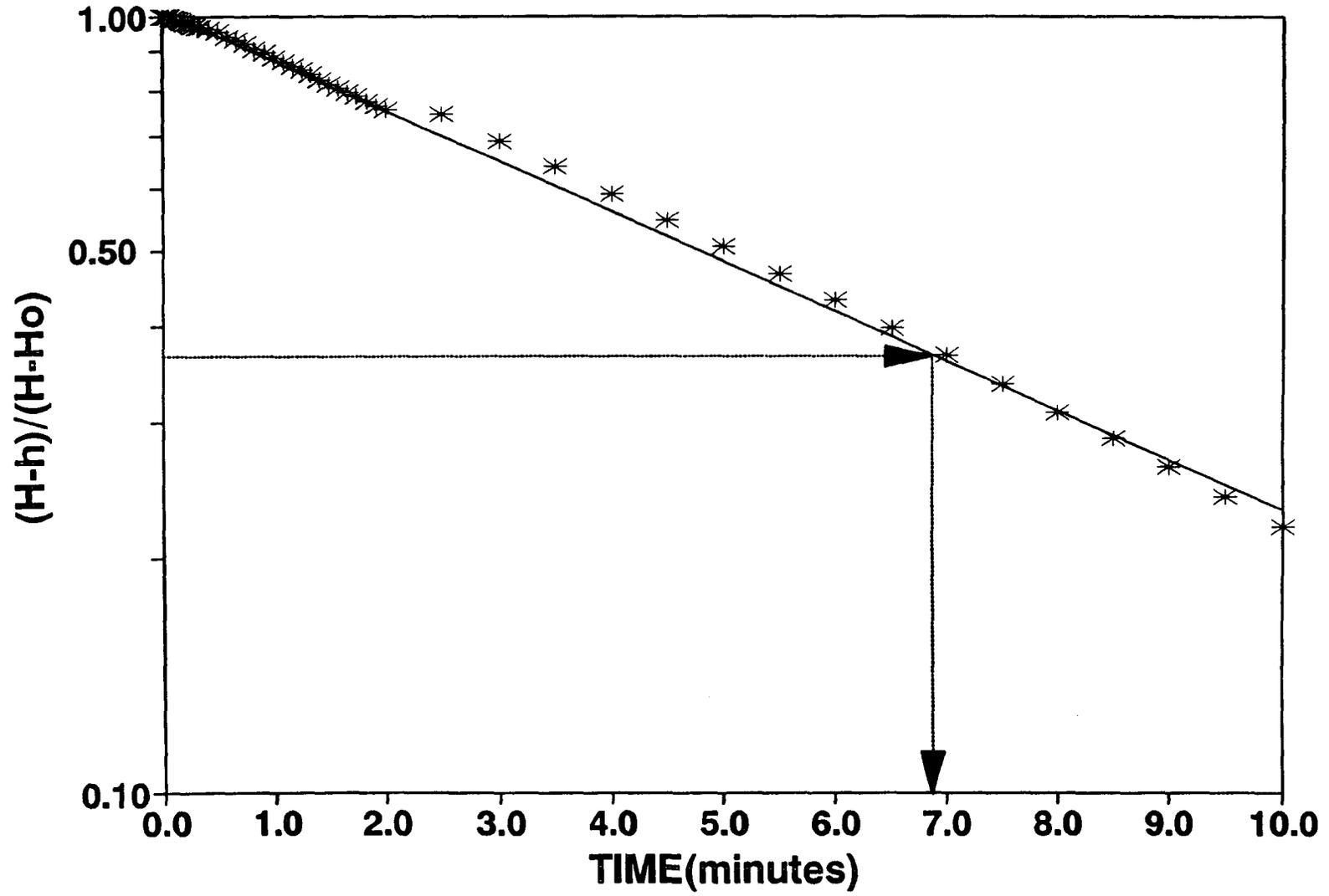


Figure B-5. Slug-Test Data for Well C-0443

Table B-1. Summary of Slug-Test Data

Well Number	L (ft)	R (ft)	r (ft)	T _o (minutes)	K (ft/min)	K (ft/day)
C-0130	10	0.083	0.083	0.72	0.0023	3.33
C-0444	10	0.167	0.167	10.67	0.0005	0.767
C-0116	59 ¹	0.083	0.083	0.15	0.0026	3.71
C-0409	48 ¹	0.083	0.083	0.25	0.0018	2.65
C-0443	20	0.167	0.167	6.85	0.0005	0.699

¹ Open hole

APPENDIX C
BATHYMETRIC MAPS

BLUE POND

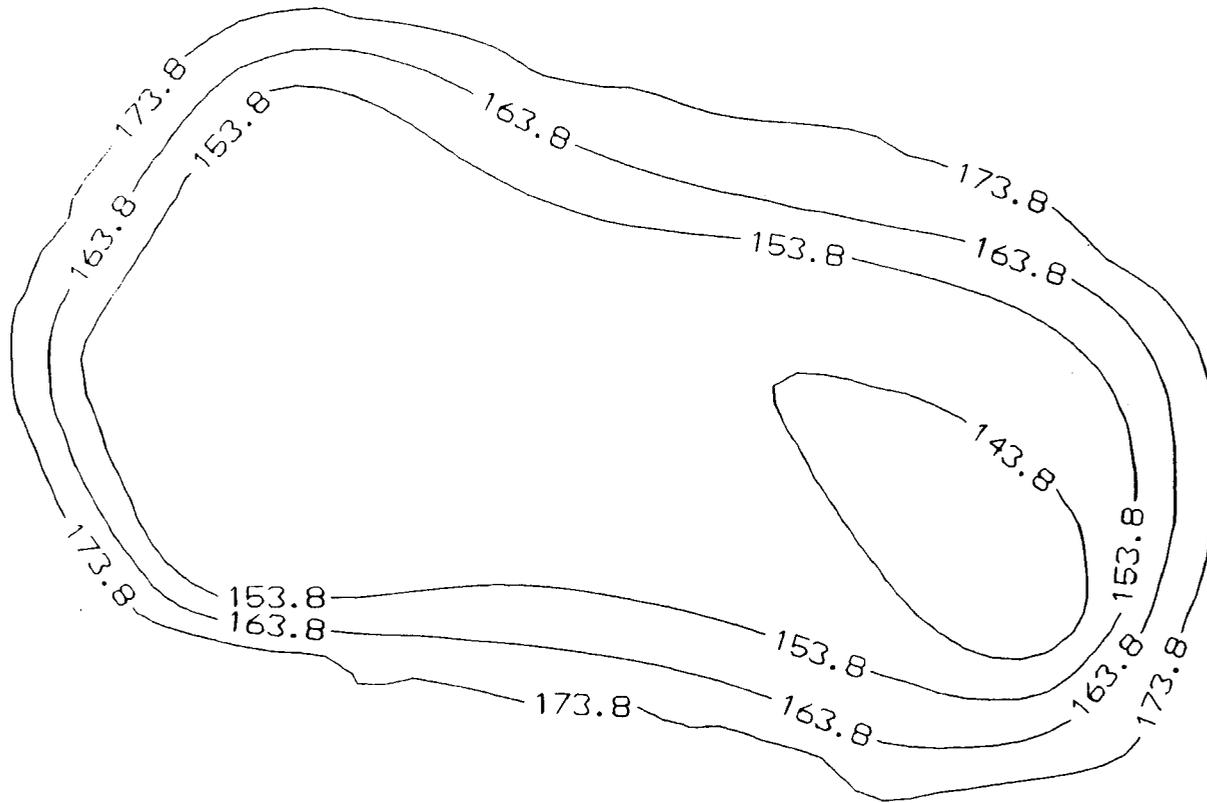


Figure C-1. Bathymetric Map for Blue Pond

SAND HILL LAKE

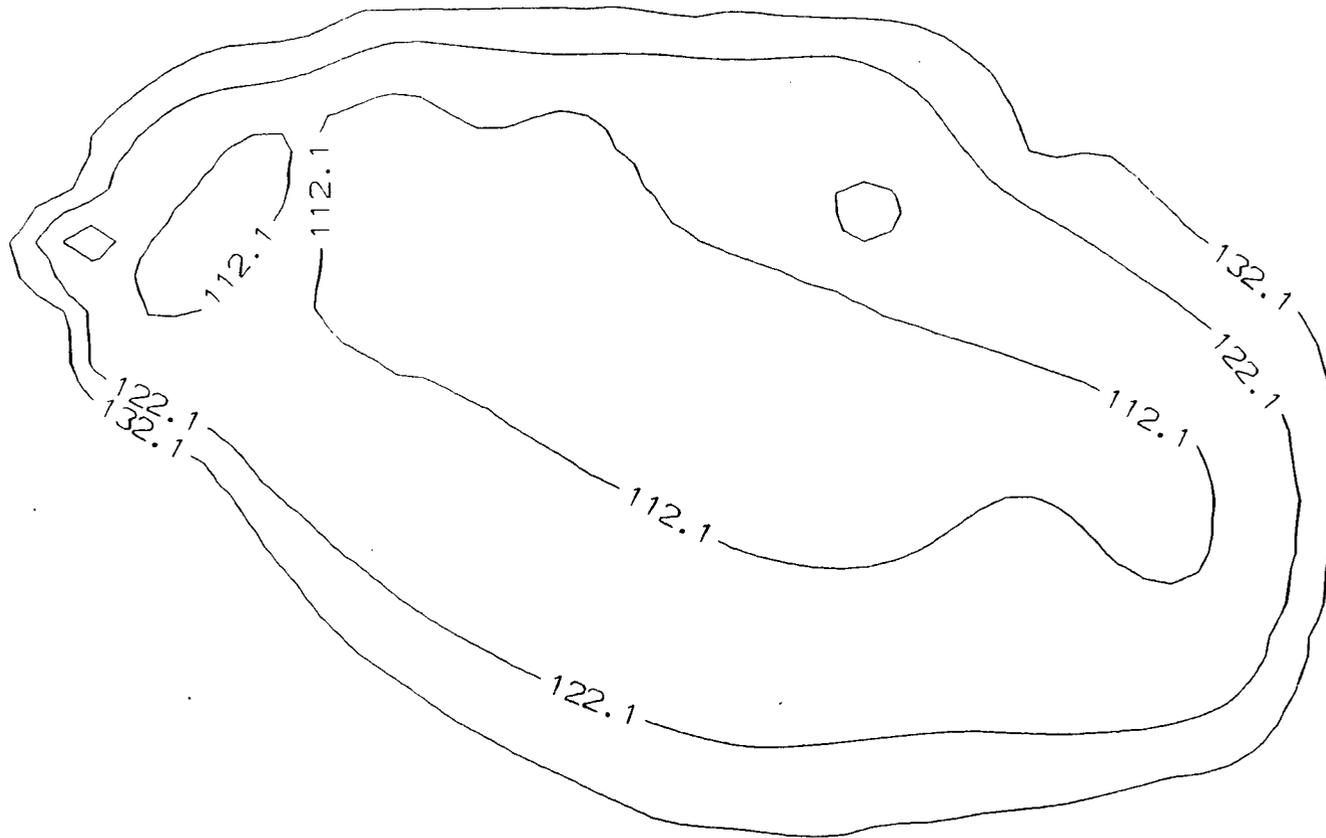


Figure C-2. Bathymetric Map for Sand Hill Lake

MAGNOLIA LAKE

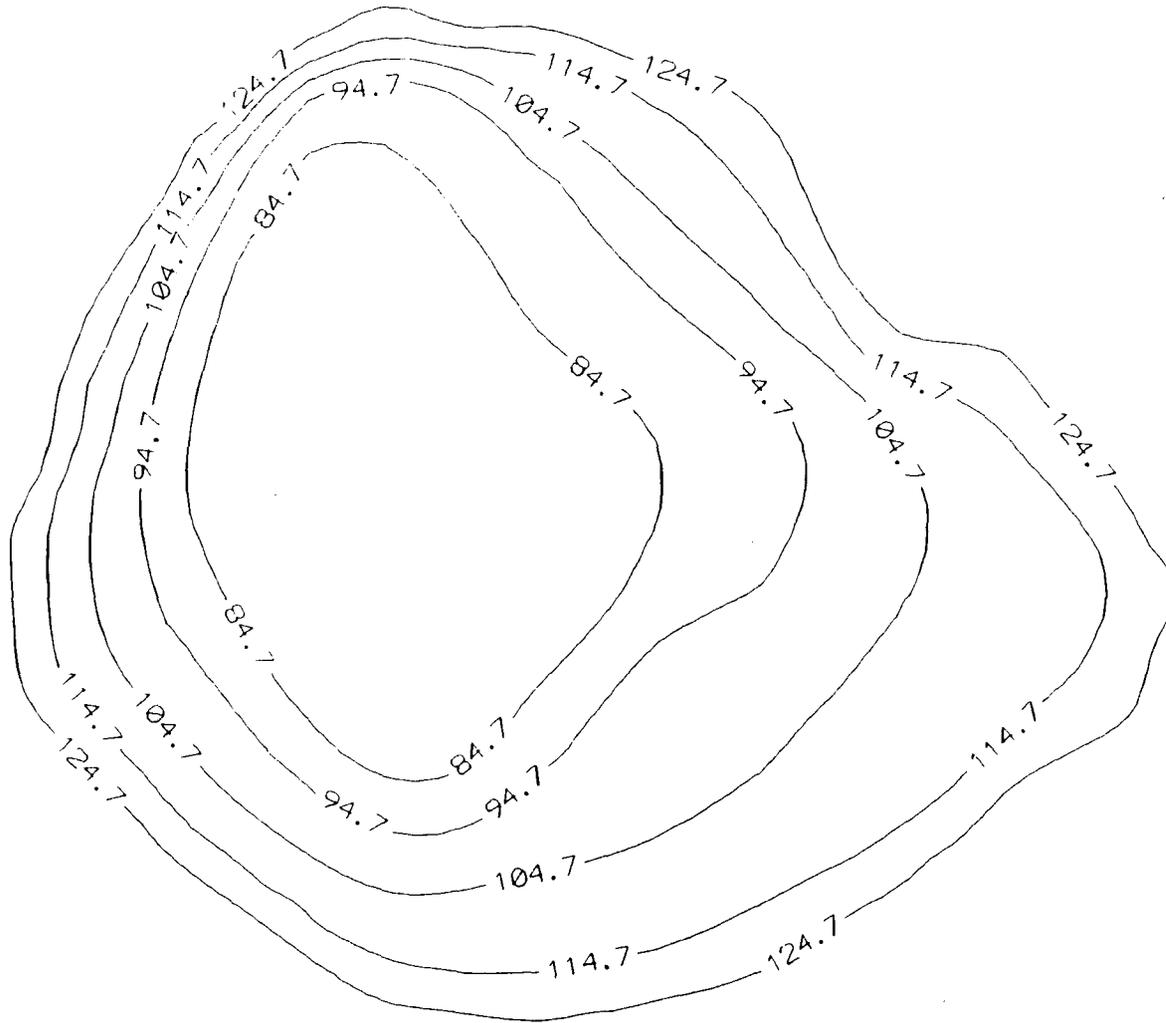


Figure C-3. Bathymetric Map for Magnolia Lake

LAKE BROOKLYN

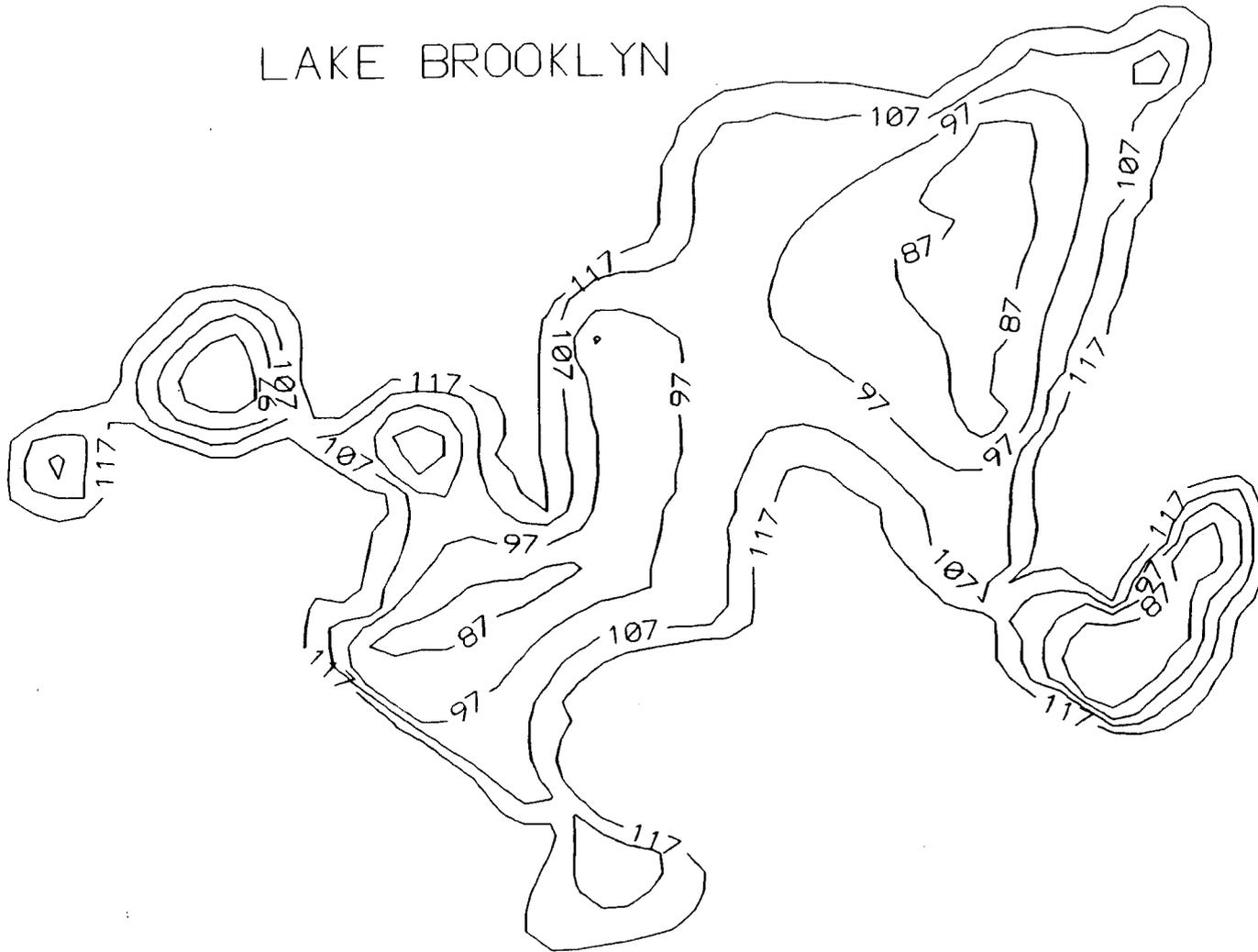


Figure C-4. Bathymetric Map for Brooklyn Lake

LAKE GENEVA

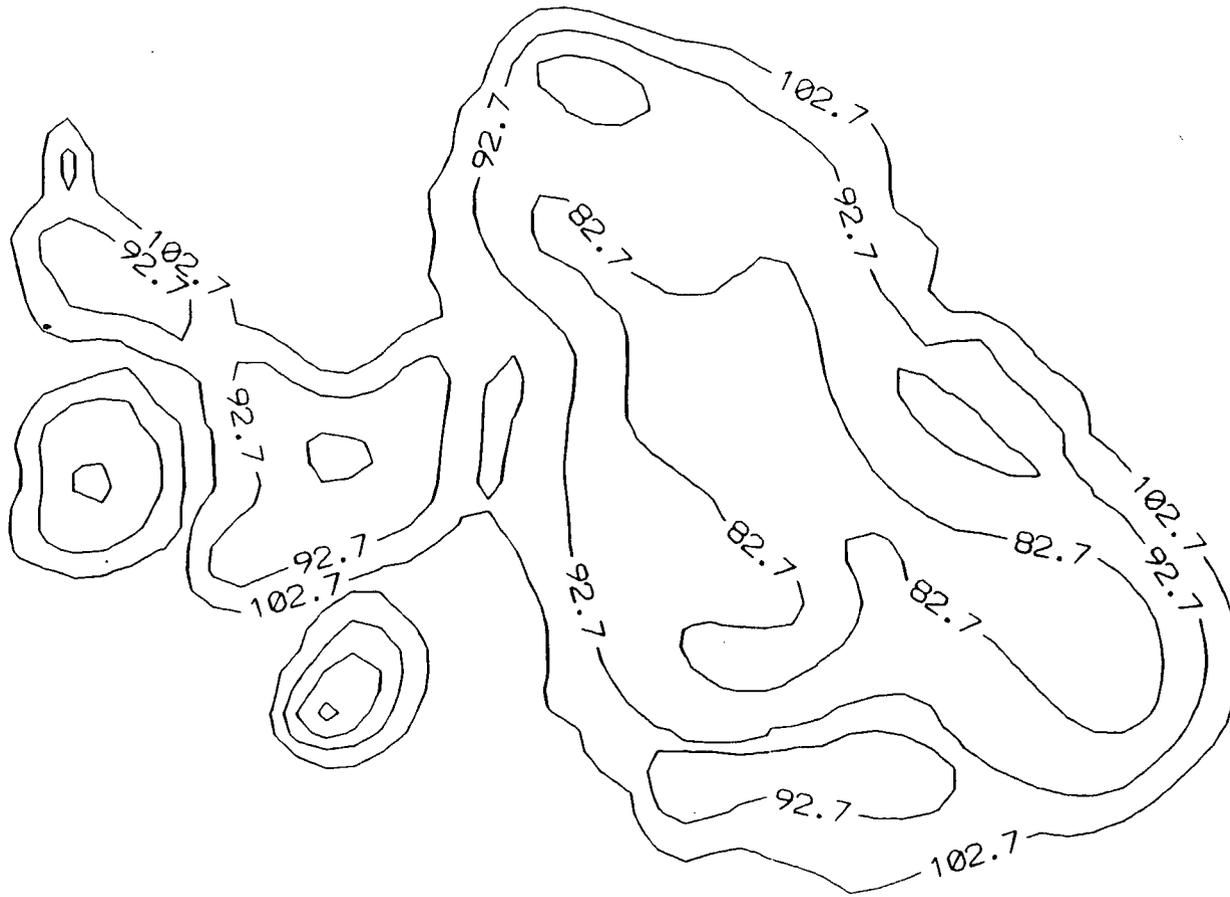


Figure C-5. Bathymetric Map for Lake Geneva

APPENDIX D

DATA BASE FOR SHORT-TERM AND LONG-TERM SIMULATIONS

**D1. Daily Water Budget Data Base for Lakes
Sand Hill, Magnolia, Brooklyn, and Geneva**

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
01-Jan-89	0.08	0.77	0.00	83.13	92.52	82.52	85.71	79.53	81.33	98.23	106.65	124.78	131.78
02-Jan-89	0.08	0.77	0.00	83.11	92.49	82.51	85.69	79.51	81.31	98.22	106.64	124.77	131.78
03-Jan-89	0.08	0.77	0.00	83.14	92.54	82.53	85.72	79.54	81.34	98.22	106.62	124.77	131.78
04-Jan-89	0.16	0.77	0.00	82.97	92.26	82.36	85.56	79.40	81.19	98.21	106.61	124.76	131.78
05-Jan-89	0.15	0.77	0.00	82.87	92.10	82.29	85.47	79.32	81.10	98.20	106.59	124.75	131.78
06-Jan-89	0.10	0.77	0.00	82.89	92.13	82.31	85.48	79.34	81.11	98.19	106.58	124.75	131.78
07-Jan-89	0.10	0.77	0.00	82.85	92.07	82.27	85.45	79.31	81.08	98.18	106.56	124.74	131.78
08-Jan-89	0.10	0.77	0.00	82.87	92.10	82.29	85.47	79.32	81.10	98.18	106.54	124.74	131.78
09-Jan-89	0.09	0.77	0.00	82.66	92.06	82.26	85.46	79.32	81.09	98.17	106.52	124.73	131.78
10-Jan-89	0.07	0.77	0.00	82.79	91.97	82.21	85.39	79.26	81.03	98.16	106.50	124.73	131.78
11-Jan-89	0.03	0.77	0.00	82.76	91.92	82.19	85.36	79.24	81.00	98.15	106.48	124.73	131.77
12-Jan-89	0.02	0.77	0.00	82.78	91.92	82.19	85.36	79.24	81.00	98.14	106.46	124.73	131.77
13-Jan-89	0.05	0.77	0.00	82.78	91.86	82.21	85.36	79.25	81.02	98.14	106.44	124.72	131.77
14-Jan-89	0.14	0.77	0.00	82.71	91.84	82.14	85.31	79.20	80.95	98.13	106.41	124.72	131.77
15-Jan-89	0.09	0.77	0.00	82.74	91.89	82.17	85.34	79.22	80.96	98.13	106.39	124.72	131.77
16-Jan-89	0.11	0.77	0.00	82.71	91.84	82.14	85.31	79.20	80.95	98.12	106.36	124.71	131.77
17-Jan-89	0.19	0.77	0.00	82.64	91.73	82.08	85.25	79.14	80.89	98.12	106.34	124.71	131.77
18-Jan-89	0.09	0.77	0.00	82.66	91.76	82.10	85.27	79.16	80.91	98.11	106.31	124.71	131.77
19-Jan-89	0.10	0.77	0.00	82.66	91.76	82.10	85.27	79.16	80.91	98.11	106.29	124.71	131.77
20-Jan-89	0.10	0.77	0.00	82.71	91.84	82.14	85.31	79.20	80.95	98.11	106.29	124.70	131.77
21-Jan-89	0.10	0.77	0.18	82.69	91.81	82.12	85.30	79.18	80.94	98.11	106.30	124.70	131.77
22-Jan-89	0.07	0.77	0.96	82.66	92.08	82.28	85.46	79.32	81.09	98.11	106.30	124.70	131.77
23-Jan-89	0.03	0.77	0.01	82.82	92.02	82.24	85.42	79.28	81.05	98.11	106.31	124.70	131.77
24-Jan-89	0.12	0.77	0.00	82.71	91.84	82.14	85.31	79.20	80.95	98.11	106.31	124.70	131.77
25-Jan-89	0.13	0.77	0.00	82.66	91.76	82.10	85.27	79.16	80.91	98.11	106.32	124.70	131.76
26-Jan-89	0.14	0.77	0.00	82.62	91.70	82.06	85.23	79.12	80.87	98.11	106.32	124.70	131.76
27-Jan-89	0.10	0.77	0.00	82.67	91.78	82.11	85.28	79.16	80.92	98.11	106.30	124.70	131.76
28-Jan-89	0.13	0.77	0.00	82.64	91.73	82.08	85.25	79.14	80.89	98.10	106.27	124.70	131.76
29-Jan-89	0.11	0.77	0.00	82.67	91.78	82.11	85.28	79.16	80.92	98.10	106.25	124.70	131.76
30-Jan-89	0.11	0.77	0.00	82.71	91.84	82.14	85.31	79.20	80.95	98.09	106.23	124.70	131.76
31-Jan-89	0.12	0.77	0.00	82.63	91.71	82.07	85.24	79.13	80.88	98.09	106.21	124.70	131.76
01-Feb-89	0.16	0.69	0.00	82.56	91.60	82.00	85.17	79.06	80.82	98.09	106.18	124.70	131.76
02-Feb-89	0.09	0.69	0.00	82.5	91.50	81.95	85.12	79.03	80.78	98.08	106.16	124.70	131.75
03-Feb-89	0.13	0.69	0.00	82.45	91.42	81.90	85.07	78.99	80.72	98.08	106.14	124.70	131.73
04-Feb-89	0.13	0.69	0.00	82.47	91.46	81.92	85.09	79.01	80.74	98.07	106.12	124.70	131.72
05-Feb-89	0.12	0.69	0.00	82.52	91.54	81.97	85.13	79.05	80.78	98.07	106.10	124.69	131.70
06-Feb-89	0.16	0.69	0.00	82.53	91.55	81.98	85.14	79.05	80.79	98.06	106.08	124.69	131.69
07-Feb-89	0.17	0.69	0.00	82.48	91.47	81.93	85.10	79.01	80.75	98.06	106.06	124.68	131.67
08-Feb-89	0.07	0.69	0.00	82.41	91.36	81.87	85.03	78.96	80.68	98.05	106.04	124.68	131.66
09-Feb-89	0.21	0.69	0.00	82.28	91.15	81.75	84.91	78.85	80.57	98.01	106.02	124.67	131.64
10-Feb-89	0.16	0.69	0.00	82.27	91.13	81.74	84.90	78.85	80.56	97.99	106.04	124.65	131.64
11-Feb-89	0.14	0.69	0.00	82.32	91.21	81.79	84.95	78.89	80.60	97.98	106.07	124.64	131.64
12-Feb-89	0.13	0.69	0.00	82.26	91.15	81.75	84.91	78.85	80.57	97.98	106.09	124.63	131.64
13-Feb-89	0.12	0.69	0.00	82.23	91.07	81.70	84.86	78.81	80.52	97.94	106.11	124.61	131.64
14-Feb-89	0.14	0.69	0.00	82.15	90.94	81.63	84.78	78.75	80.45	97.93	106.13	124.60	131.64
15-Feb-89	0.17	0.69	0.00	82.11	90.87	81.59	84.75	78.72	80.41	97.91	106.16	124.58	131.63
16-Feb-89	0.17	0.69	0.00	82.13	90.91	81.61	84.77	78.74	80.43	97.91	106.18	124.57	131.63
17-Feb-89	0.15	0.69	0.00	82.16	90.96	81.64	84.79	78.78	80.46	97.92	106.10	124.55	131.63
18-Feb-89	0.09	0.69	0.00	82.19	91.00	81.67	84.82	78.78	80.49	97.93	106.02	124.54	131.63
19-Feb-89	0.04	0.69	0.00	82.22	91.05	81.69	84.85	78.81	80.51	97.94	105.94	124.54	131.63
20-Feb-89	0.08	0.69	0.00	82.25	91.10	81.72	84.88	78.83	80.54	97.95	105.85	124.53	131.63
21-Feb-89	0.14	0.69	0.00	82.28	91.15	81.75	84.91	78.85	80.57	97.96	105.77	124.53	131.63
22-Feb-89	0.21	0.69	0.84	82.32	91.21	81.79	84.95	78.89	80.60	97.97	105.69	124.53	131.63
23-Feb-89	0.15	0.69	0.00	82.18	90.99	81.66	84.81	78.78	80.48	97.95	105.61	124.53	131.63
24-Feb-89	0.14	0.69	0.00	81.96	90.83	81.46	84.61	78.60	80.28	97.92	105.62	124.52	131.63
25-Feb-89	0.14	0.69	0.00	81.92	90.57	81.42	84.57	78.57	80.24	97.90	105.62	124.52	131.63
26-Feb-89	0.14	0.69	0.00	81.99	90.68	81.48	84.63	78.62	80.31	97.88	105.63	124.53	131.62
27-Feb-89	0.15	0.69	0.00	82.12	90.89	81.60	84.76	78.73	80.42	97.86	105.64	124.55	131.62
28-Feb-89	0.19	0.69	0.00	82.08	90.83	81.57	84.72	78.70	80.39	97.83	105.65	124.58	131.62
01-Mar-89	0.20	0.73	0.00	82.02	90.73	81.51	84.66	78.65	80.33	97.81	105.65	124.58	131.62
02-Mar-89	0.11	0.73	0.92	82.16	90.96	81.64	84.79	78.78	80.46	97.82	105.66	124.59	131.62
03-Mar-89	0.01	0.73	0.21	82.23	91.07	81.70	84.86	78.81	80.52	97.84	105.64	124.61	131.62
04-Mar-89	0.13	0.73	0.13	82.16	90.96	81.64	84.79	78.78	80.46	97.85	105.62	124.62	131.61
05-Mar-89	0.18	0.73	0.00	82.15	90.94	81.63	84.78	78.75	80.45	97.87	105.60	124.61	131.61
06-Mar-89	0.19	0.73	0.00	82.15	90.94	81.63	84.78	78.75	80.45	97.88	105.57	124.59	131.60
07-Mar-89	0.15	0.73	0.00	82.12	90.89	81.60	84.76	78.73	80.42	97.90	105.55	124.58	131.60
08-Mar-89	0.09	0.73	0.00	82.04	90.76	81.53	84.68	78.66	80.35	97.91	105.53	124.56	131.59
09-Mar-89	0.05	0.73	0.00	82	90.70	81.49	84.64	78.63	80.32	97.90	105.51	124.55	131.59
10-Mar-89	0.04	0.73	0.00	81.99	90.68	81.48	84.63	78.62	80.31	97.89	105.49	124.53	131.58
11-Mar-89	0.21	0.73	0.00	81.96	90.63	81.46	84.61	78.60	80.28	97.88	105.46	124.52	131.57
12-Mar-89	0.19	0.73	0.00	81.99	90.68	81.48	84.63	78.62	80.31	97.87	105.44	124.51	131.57

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
13-Mar-89	0.23	0.73	0.00	81.97	90.65	81.47	84.61	78.61	80.29	97.98	105.41	124.90	131.56
14-Mar-89	0.20	0.73	0.00	81.93	90.58	81.43	84.58	78.58	80.25	97.85	105.39	124.49	131.56
15-Mar-89	0.30	0.73	0.00	81.88	90.47	81.37	84.51	78.52	80.19	97.85	105.36	124.49	131.55
16-Mar-89	0.19	0.73	0.00	81.78	90.34	81.29	84.44	78.46	80.12	97.84	105.34	124.48	131.54
17-Mar-89	0.23	0.73	0.00	81.7	90.21	81.22	84.36	78.39	80.05	97.84	105.32	124.47	131.54
18-Mar-89	0.23	0.73	0.00	81.65	90.13	81.17	84.31	78.35	80.00	97.83	105.29	124.46	131.53
19-Mar-89	0.19	0.73	0.00	81.61	90.07	81.14	84.27	78.32	79.97	97.83	105.27	124.45	131.53
20-Mar-89	0.26	0.73	0.00	81.62	90.08	81.15	84.28	78.33	79.97	97.82	105.24	124.45	131.52
21-Mar-89	0.15	0.73	0.00	81.66	90.15	81.18	84.32	78.36	80.01	97.82	105.22	124.44	131.52
22-Mar-89	0.22	0.73	0.00	81.65	90.13	81.17	84.31	78.35	80.00	97.81	105.19	124.44	131.51
23-Mar-89	0.14	0.73	0.22	81.75	90.29	81.27	84.41	78.43	80.09	97.80	105.17	124.43	131.50
24-Mar-89	0.17	0.73	0.08	81.71	90.23	81.23	84.37	78.40	80.06	97.80	105.15	124.43	131.50
25-Mar-89	0.12	0.73	0.00	81.68	90.18	81.20	84.34	78.36	80.03	97.79	105.13	124.42	131.49
26-Mar-89	0.12	0.73	0.00	81.68	90.15	81.18	84.32	78.36	80.01	97.79	105.11	124.41	131.49
27-Mar-89	0.21	0.73	0.00	81.58	90.02	81.11	84.25	78.30	79.94	97.78	105.08	124.40	131.48
28-Mar-89	0.21	0.73	0.00	81.56	89.99	81.09	84.23	78.28	79.92	97.78	105.06	124.39	131.47
29-Mar-89	0.26	0.73	0.00	81.58	89.99	81.09	84.23	78.28	79.92	97.77	105.04	124.37	131.47
30-Mar-89	0.19	0.73	0.00	81.62	90.08	81.15	84.28	78.33	79.97	97.75	105.02	124.36	131.46
31-Mar-89	0.17	0.73	0.00	81.6	90.05	81.13	84.27	78.31	79.96	97.74	105.00	124.35	131.46
01-Apr-89	0.38	0.84	0.00	81.39	89.71	80.94	84.07	78.15	79.77	97.72	104.98	124.34	131.45
02-Apr-89	0.23	0.84	0.00	81.32	89.60	80.87	84.00	78.09	79.71	97.71	104.95	124.33	131.45
03-Apr-89	0.23	0.84	0.00	81.3	89.57	80.85	83.96	78.08	79.69	97.69	104.93	124.33	131.44
04-Apr-89	0.18	0.84	0.00	81.28	89.50	80.82	83.94	78.04	79.65	97.67	104.91	124.32	131.44
05-Apr-89	0.23	0.84	0.19	81.35	89.65	80.90	84.03	78.12	79.73	97.68	104.89	124.31	131.44
06-Apr-89	0.17	0.84	0.12	81.42	89.78	80.98	84.09	78.17	79.80	97.84	104.86	124.31	131.44
07-Apr-89	0.27	0.84	0.00	81.47	89.84	81.01	84.14	78.21	79.84	97.83	104.84	124.30	131.43
08-Apr-89	0.22	0.84	0.00	81.43	89.78	80.97	84.10	78.18	79.80	97.82	104.80	124.28	131.43
09-Apr-89	0.25	0.84	0.00	81.33	89.62	80.88	84.01	78.10	79.71	97.81	104.77	124.27	131.43
10-Apr-89	0.25	0.84	0.00	81.24	89.47	80.80	83.92	78.03	79.63	97.59	104.73	124.26	131.43
11-Apr-89	0.23	0.84	0.08	81.22	89.44	80.78	83.91	78.01	79.62	97.58	104.69	124.25	131.43
12-Apr-89	0.04	0.84	0.13	81.28	89.50	80.82	83.94	78.04	79.65	97.57	104.65	124.23	131.43
13-Apr-89	0.15	0.84	0.00	81.28	89.54	80.84	83.96	78.06	79.67	97.56	104.62	124.22	131.43
14-Apr-89	0.12	0.84	0.00	81.24	89.47	80.80	83.92	78.03	79.63	97.55	104.58	124.21	131.42
15-Apr-89	0.18	0.84	0.75	81.35	89.65	80.90	84.03	78.12	79.73	97.54	104.56	124.20	131.42
16-Apr-89	0.10	0.84	0.06	81.3	89.57	80.85	83.98	78.08	79.69	97.52	104.53	124.19	131.42
17-Apr-89	0.20	0.84	0.00	81.17	89.38	80.74	83.86	77.97	79.57	97.51	104.51	124.18	131.42
18-Apr-89	0.24	0.84	0.00	81.17	89.36	80.74	83.86	77.97	79.57	97.50	104.48	124.17	131.42
19-Apr-89	0.21	0.84	0.00	81.17	89.38	80.74	83.86	77.97	79.57	97.49	104.46	124.17	131.42
20-Apr-89	0.21	0.84	0.00	81.16	89.34	80.73	83.85	77.96	79.56	97.48	104.43	124.16	131.42
21-Apr-89	0.17	0.84	0.01	81.18	89.37	80.74	83.87	77.98	79.58	97.46	104.40	124.15	131.42
22-Apr-89	0.13	0.84	0.00	81.08	89.18	80.64	83.75	77.88	79.47	97.45	104.38	124.14	131.41
23-Apr-89	0.21	0.84	0.00	80.97	89.04	80.55	83.67	77.81	79.39	97.44	104.35	124.12	131.41
24-Apr-89	0.23	0.84	0.00	80.91	88.94	80.50	83.61	77.77	79.34	97.42	104.29	124.07	131.41
25-Apr-89	0.26	0.84	0.00	80.91	88.94	80.50	83.61	77.77	79.34	97.42	104.29	124.07	131.41
26-Apr-89	0.27	0.84	0.00	80.88	88.89	80.47	83.58	77.74	79.31	97.40	104.27	124.05	131.41
27-Apr-89	0.27	0.84	0.00	80.85	88.84	80.44	83.56	77.72	79.28	97.39	104.24	124.03	131.41
28-Apr-89	0.29	0.84	0.00	80.78	88.73	80.38	83.49	77.66	79.22	97.38	104.21	124.00	131.41
29-Apr-89	0.28	0.84	0.00	80.69	88.58	80.30	83.40	77.59	79.14	97.37	104.19	123.98	131.40
30-Apr-89	0.28	0.84	0.00	80.68	88.57	80.29	83.40	77.58	79.13	97.36	104.18	123.97	131.40
01-May-89	0.22	0.82	0.06	80.65	88.54	80.24	83.36	77.52	79.28	97.35	104.14	123.96	131.40
02-May-89	0.13	0.82	0.59	80.87	88.87	80.46	83.57	77.73	79.30	97.33	104.11	123.95	131.40
03-May-89	0.27	0.82	0.00	80.77	88.71	80.37	83.48	77.65	79.21	97.32	104.09	123.93	131.39
04-May-89	0.25	0.82	0.00	80.73	88.65	80.33	83.44	77.62	79.18	97.31	104.06	123.92	131.39
05-May-89	0.22	0.82	0.00	80.7	88.60	80.31	83.41	77.60	79.15	97.28	104.02	123.91	131.38
06-May-89	0.28	0.82	0.00	80.72	88.63	80.32	83.43	77.61	79.17	97.28	103.99	123.90	131.37
07-May-89	0.30	0.82	0.10	80.73	88.65	80.33	83.44	77.62	79.18	97.23	103.95	123.89	131.37
08-May-89	0.39	0.82	0.00	80.68	88.54	80.27	83.38	77.57	79.11	97.21	103.92	123.88	131.36
09-May-89	0.24	0.82	0.00	80.63	88.49	80.24	83.35	77.54	79.09	97.18	103.88	123.87	131.35
10-May-89	0.31	0.82	0.00	80.68	88.57	80.29	83.40	77.58	79.13	97.18	103.85	123.85	131.35
11-May-89	0.18	0.82	0.30	80.73	88.65	80.33	83.44	77.62	79.18	97.13	103.81	123.84	131.34
12-May-89	0.27	0.82	0.00	80.67	88.55	80.28	83.39	77.57	79.12	97.11	103.78	123.83	131.33
13-May-89	0.32	0.82	0.00	80.8	88.44	80.22	83.32	77.52	79.06	97.09	103.75	123.82	131.33
14-May-89	0.18	0.82	0.00	80.52	88.31	80.14	83.24	77.48	78.99	97.07	103.72	123.81	131.32
15-May-89	0.28	0.82	0.00	80.42	88.15	80.05	83.15	77.38	78.90	97.05	103.68	123.79	131.31
16-May-89	0.31	0.82	0.00	80.37	88.07	80.01	83.10	77.34	78.85	97.03	103.65	123.78	131.31
17-May-89	0.31	0.82	0.00	80.3	87.95	79.94	83.04	77.29	78.79	97.01	103.62	123.78	131.30
18-May-89	0.32	0.82	0.00	80.22	87.83	79.87	82.96	77.22	78.72	97.00	103.59	123.75	131.29
19-May-89	0.31	0.82	0.00	80.23	87.84	79.88	82.97	77.22	78.73	97.00	103.58	123.73	131.29
20-May-89	0.19	0.82	0.00	80.2	87.79	79.85	82.94	77.20	78.70	96.99	103.54	123.72	131.28
21-May-89	0.20	0.82	0.02	80.23	87.84	79.88	82.97	77.22	78.73	96.99	103.51	123.71	131.27

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
22-May-89	0.25	0.82	0.74	80.4	88.12	80.03	83.13	77.36	78.68	96.98	103.49	123.69	131.27
23-May-89	0.22	0.82	0.00	80.34	88.02	79.98	83.07	77.31	78.63	96.96	103.46	123.68	131.26
24-May-89	0.23	0.82	0.00	80.33	88.00	79.97	83.06	77.30	78.62	96.97	103.44	123.68	131.25
25-May-89	0.16	0.82	0.10	80.3	87.95	79.94	83.04	77.28	78.79	96.95	103.41	123.65	131.25
26-May-89	0.23	0.82	0.00	80.15	87.71	79.80	82.89	77.16	78.66	96.92	103.38	123.63	131.24
27-May-89	0.28	0.82	0.00	80.04	87.63	79.70	82.79	77.07	78.58	96.90	103.34	123.62	131.23
28-May-89	0.33	0.82	0.00	79.98	87.60	79.65	82.73	77.03	78.50	96.88	103.31	123.60	131.23
29-May-89	0.36	0.82	0.00	79.91	87.58	79.59	82.67	76.97	78.44	96.86	103.28	123.57	131.22
30-May-89	0.25	0.82	0.05	79.92	87.56	79.58	82.68	76.98	78.45	96.83	103.25	123.55	131.21
31-May-89	0.30	0.82	0.00	79.89	87.55	79.57	82.65	76.95	78.42	96.81	103.21	123.52	131.21
01-Jun-89	0.35	0.85	0.00	79.85	87.23	79.53	82.61	76.92	78.39	96.82	103.18	123.50	131.20
02-Jun-89	0.34	0.85	0.00	79.79	87.13	79.48	82.55	76.88	78.33	96.83	103.17	123.50	131.18
03-Jun-89	0.28	0.85	0.00	79.77	87.10	79.46	82.54	76.86	78.31	96.84	103.17	123.51	131.15
04-Jun-89	0.33	0.85	0.00	79.72	87.02	79.41	82.48	76.82	78.27	96.85	103.16	123.51	131.13
05-Jun-89	0.30	0.85	0.00	79.75	87.07	79.44	82.52	76.84	78.30	96.86	103.16	123.52	131.10
06-Jun-89	0.27	0.85	0.00	79.95	87.39	79.62	82.71	77.00	78.48	96.86	103.15	123.52	131.08
07-Jun-89	0.12	0.85	0.47	80.07	87.58	79.73	82.82	77.10	78.58	96.85	103.11	123.51	131.08
08-Jun-89	0.11	0.85	0.01	80.05	87.55	79.71	82.80	77.08	78.57	96.84	103.08	123.50	131.08
09-Jun-89	0.15	0.85	0.81	80.07	87.58	79.73	82.82	77.10	78.58	96.83	103.04	123.49	131.08
10-Jun-89	0.28	0.85	0.00	79.95	87.39	79.62	82.71	77.00	78.48	96.81	103.02	123.46	131.07
11-Jun-89	0.30	0.85	0.00	79.9	87.31	79.58	82.66	76.96	78.43	96.80	103.00	123.46	131.07
12-Jun-89	0.27	0.85	0.00	79.9	87.31	79.58	82.66	76.96	78.43	96.79	102.97	123.44	131.07
13-Jun-89	0.26	0.85	0.00	79.89	87.29	79.57	82.65	76.95	78.42	96.78	102.95	123.42	131.07
14-Jun-89	0.29	0.85	0.00	79.81	87.18	79.49	82.57	76.89	78.35	96.77	102.93	123.40	131.07
15-Jun-89	0.31	0.85	0.00	79.73	87.03	79.42	82.50	76.83	78.28	96.77	102.91	123.38	131.07
16-Jun-89	0.28	0.85	0.00	79.74	87.05	79.43	82.51	76.84	78.29	96.77	102.91	123.38	131.07
17-Jun-89	0.33	0.85	1.31	79.71	87.00	79.40	82.48	76.81	78.28	96.78	102.91	123.34	131.08
18-Jun-89	0.14	0.85	0.02	79.72	87.02	79.41	82.49	76.82	78.27	96.78	102.91	123.34	131.06
19-Jun-89	0.40	0.85	0.94	79.86	87.24	79.54	82.62	76.93	78.40	96.78	102.91	123.34	131.06
20-Jun-89	0.31	0.85	0.09	79.9	87.31	79.58	82.66	76.96	78.43	96.79	102.91	123.34	131.06
21-Jun-89	0.15	0.85	1.72	79.84	87.21	79.52	82.60	76.91	78.38	96.79	102.91	123.34	131.06
22-Jun-89	0.25	0.85	0.72	79.84	87.21	79.52	82.60	76.91	78.38	96.78	102.91	123.34	131.06
23-Jun-89	0.32	0.85	0.00	79.85	87.23	79.53	82.61	76.92	78.39	96.77	102.88	123.34	131.05
24-Jun-89	0.13	0.85	0.70	79.89	87.29	79.57	82.65	76.95	78.42	96.78	102.85	123.34	131.05
25-Jun-89	0.15	0.85	0.00	79.87	87.26	79.55	82.63	76.94	78.40	96.74	102.82	123.35	131.05
26-Jun-89	0.21	0.85	0.00	79.81	87.24	79.49	82.57	76.89	78.35	96.73	102.79	123.36	131.05
27-Jun-89	0.25	0.85	0.00	79.75	87.22	79.44	82.52	76.84	78.30	96.72	102.76	123.37	131.05
28-Jun-89	0.30	0.85	0.00	79.87	87.21	79.37	82.44	76.78	78.22	96.71	102.73	123.37	131.05
29-Jun-89	0.25	0.85	2.20	79.87	87.20	79.37	82.44	76.78	78.22	96.73	102.70	123.36	131.05
30-Jun-89	0.18	0.85	0.87	79.75	87.21	79.44	82.52	76.84	78.30	96.75	102.74	123.39	131.04
01-Jul-89	0.27	0.91	0.08	79.85	87.23	79.53	82.61	76.92	78.39	96.77	102.77	123.40	131.04
02-Jul-89	0.18	0.91	0.27	79.89	87.29	79.57	82.65	76.95	78.42	96.79	102.81	123.39	131.04
03-Jul-89	0.21	0.91	0.02	79.89	87.29	79.57	82.65	76.95	78.42	96.79	102.81	123.39	131.04
04-Jul-89	0.23	0.91	0.00	79.89	87.29	79.57	82.65	76.95	78.42	96.83	102.89	123.37	131.04
05-Jul-89	0.14	0.91	0.00	79.84	87.21	79.52	82.60	76.91	78.38	96.85	102.92	123.37	131.04
06-Jul-89	0.25	0.91	0.00	79.74	87.05	79.43	82.51	76.84	78.29	96.84	102.86	123.36	131.04
07-Jul-89	0.20	0.91	0.00	79.89	86.97	79.38	82.46	76.80	78.24	96.83	102.96	123.35	131.04
08-Jul-89	0.24	0.91	0.00	79.88	86.95	79.38	82.45	76.79	78.23	96.82	102.96	123.34	131.04
09-Jul-89	0.30	0.91	0.00	79.87	86.94	79.37	82.44	76.78	78.22	96.80	102.96	123.35	131.04
10-Jul-89	0.30	0.91	0.00	79.87	86.94	79.37	82.44	76.78	78.22	96.79	102.96	123.36	131.04
11-Jul-89	0.23	0.91	0.00	79.82	86.88	79.32	82.39	76.74	78.18	96.78	102.96	123.37	131.04
12-Jul-89	0.36	0.91	0.00	79.59	86.81	79.29	82.37	76.72	78.15	96.77	102.96	123.37	131.04
13-Jul-89	0.31	0.91	0.17	79.84	86.89	79.34	82.41	76.76	78.20	96.77	102.96	123.38	131.05
14-Jul-89	0.17	0.91	0.00	79.75	87.07	79.44	82.52	76.84	78.30	96.77	102.94	123.39	131.05
15-Jul-89	0.13	0.91	0.01	79.71	87.00	79.40	82.46	76.81	78.26	96.78	102.91	123.40	131.05
16-Jul-89	0.17	0.91	0.00	79.72	87.02	79.41	82.49	76.82	78.27	96.78	102.89	123.40	131.05
17-Jul-89	0.17	0.91	0.00	79.72	87.02	79.41	82.49	76.82	78.27	96.75	102.86	123.39	131.05
18-Jul-89	0.22	0.91	0.00	79.7	86.99	79.39	82.47	76.80	78.25	96.75	102.84	123.39	131.05
19-Jul-89	0.21	0.91	0.05	79.7	86.99	79.39	82.47	76.80	78.25	96.75	102.81	123.39	131.05
20-Jul-89	0.11	0.91	0.51	79.75	87.07	79.44	82.52	76.84	78.30	96.75	102.79	123.39	131.05
21-Jul-89	0.17	0.91	0.25	79.7	86.99	79.39	82.47	76.80	78.25	96.75	102.77	123.38	131.05
22-Jul-89	0.34	0.91	1.66	79.63	86.87	79.33	82.40	76.75	78.19	96.76	102.76	123.38	131.05
23-Jul-89	0.25	0.91	0.72	79.64	86.89	79.34	82.41	76.76	78.20	96.76	102.74	123.36	131.05
24-Jul-89	0.16	0.91	0.01	79.65	86.91	79.35	82.42	76.76	78.21	96.77	102.73	123.35	131.05
25-Jul-89	0.21	0.91	0.00	79.63	86.87	79.33	82.40	76.75	78.19	96.77	102.71	123.33	131.05
26-Jul-89	0.29	0.91	0.00	79.63	86.87	79.33	82.40	76.75	78.19	96.77	102.70	123.31	131.05
27-Jul-89	0.18	0.91	0.03	79.67	87.06	79.37	82.44	76.78	78.22	96.75	102.68	123.29	131.05
28-Jul-89	0.31	0.91	0.00	79.64	86.89	79.34	82.41	76.78	78.20	96.73	102.67	123.28	131.05
29-Jul-89	0.39	0.91	0.00	79.58	86.79	79.28	82.36	76.71	78.14	96.71	102.65	123.28	131.05
30-Jul-89	0.31	0.91	0.00	79.57	86.78	79.28	82.35	76.70	78.14	96.70	102.64	123.27	131.05

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
31-Jul-89	0.14	0.91	0.00	79.52	86.70	79.23	82.30	76.66	78.09	96.68	102.63	123.28	131.06
01-Aug-89	0.31	0.91	0.00	79.5	86.66	79.21	82.28	76.64	78.07	96.68	102.62	123.28	131.06
02-Aug-89	0.19	0.91	0.00	79.54	86.73	79.25	82.32	76.68	78.11	96.63	102.60	123.29	131.06
03-Aug-89	0.27	0.91	0.75	79.59	86.81	79.29	82.37	76.72	78.15	96.62	102.59	123.30	131.06
04-Aug-89	0.24	0.91	0.00	79.55	86.74	79.26	82.33	76.68	78.12	96.60	102.56	123.27	131.06
05-Aug-89	0.30	0.91	0.00	79.52	86.70	79.23	82.30	76.66	78.09	96.57	102.54	123.24	131.06
06-Aug-89	0.23	0.91	0.00	79.49	86.65	79.20	82.27	76.64	78.06	96.55	102.51	123.23	131.06
07-Aug-89	0.30	0.91	0.00	79.4	86.50	79.12	82.19	76.57	77.96	96.52	102.49	123.21	131.06
08-Aug-89	0.23	0.91	0.00	79.35	86.42	79.07	82.14	76.53	77.94	96.50	102.46	123.20	131.06
09-Aug-89	0.20	0.91	0.23	79.33	86.39	79.06	82.12	76.51	77.92	96.47	102.43	123.18	131.06
10-Aug-89	0.05	0.91	0.11	79.41	86.52	79.13	82.19	76.57	77.99	96.46	102.41	123.17	131.06
11-Aug-89	0.12	0.91	0.50	79.46	86.60	79.17	82.24	76.61	78.04	96.46	102.36	123.15	131.06
12-Aug-89	0.29	0.91	1.29	79.46	86.63	79.19	82.26	76.63	78.05	96.45	102.36	123.14	131.06
13-Aug-89	0.10	0.91	0.13	79.51	86.68	79.22	82.29	76.65	78.08	96.45	102.33	123.14	131.06
14-Aug-89	0.12	0.91	0.01	79.54	86.73	79.25	82.32	76.68	78.11	96.44	102.30	123.14	131.05
15-Aug-89	0.24	0.91	0.88	79.53	86.71	79.24	82.31	76.67	78.10	96.44	102.28	123.14	131.05
16-Aug-89	0.33	0.91	0.00	79.52	86.70	79.23	82.30	76.66	78.09	96.43	102.25	123.14	131.05
17-Aug-89	0.18	0.91	0.01	79.46	86.60	79.17	82.24	76.61	78.04	96.41	102.23	123.14	131.05
18-Aug-89	0.21	0.91	0.00	79.4	86.50	79.12	82.19	76.57	77.96	96.40	102.20	123.14	131.05
19-Aug-89	0.25	0.91	0.00	79.38	86.47	79.10	82.17	76.55	77.96	96.39	102.17	123.14	131.05
20-Aug-89	0.18	0.91	0.10	79.44	86.57	79.16	82.22	76.60	78.02	96.38	102.15	123.12	131.05
21-Aug-89	0.20	0.91	0.31	79.47	86.62	79.18	82.25	76.62	78.05	96.37	102.12	123.10	131.05
22-Aug-89	0.24	0.91	0.20	79.46	86.60	79.17	82.24	76.61	78.04	96.36	102.09	123.08	131.05
23-Aug-89	0.34	0.91	1.40	79.45	86.58	79.17	82.23	76.60	78.03	96.35	102.07	123.06	131.05
24-Aug-89	0.28	0.91	0.00	79.43	86.55	79.15	82.21	76.59	78.01	96.35	102.04	123.04	131.05
25-Aug-89	0.32	0.91	0.49	79.5	86.66	79.21	82.26	76.64	78.07	96.35	102.02	123.02	131.05
26-Aug-89	0.17	0.91	0.06	79.48	86.63	79.19	82.26	76.63	78.05	96.35	101.99	123.00	131.04
27-Aug-89	0.25	0.91	0.60	79.46	86.60	79.17	82.24	76.61	78.04	96.35	101.96	122.91	131.04
28-Aug-89	0.24	0.91	0.74	79.44	86.57	79.16	82.22	76.60	78.02	96.35	101.94	122.83	131.04
29-Aug-89	0.26	0.91	0.00	79.43	86.58	79.15	82.21	76.59	78.01	96.35	101.91	122.74	131.04
30-Aug-89	0.27	0.91	0.00	79.45	86.58	79.17	82.23	76.60	78.03	96.35	101.89	122.66	131.04
31-Aug-89	0.22	0.91	0.00	79.41	86.52	79.13	82.19	76.57	77.99	96.35	101.86	122.57	131.04
01-Sep-89	0.31	0.85	1.27	79.47	86.62	79.18	82.25	76.62	78.05	96.35	101.87	122.49	131.04
02-Sep-89	0.26	0.85	0.23	79.47	86.62	79.18	82.25	76.62	78.05	96.35	101.88	122.40	131.04
03-Sep-89	0.27	0.85	1.63	79.46	86.60	79.17	82.24	76.61	78.04	96.35	101.89	122.42	131.05
04-Sep-89	0.19	0.85	0.24	79.45	86.58	79.17	82.23	76.60	78.03	96.35	101.90	122.44	131.05
05-Sep-89	0.15	0.85	0.13	79.48	86.63	79.19	82.26	76.63	78.05	96.35	101.91	122.46	131.05
06-Sep-89	0.29	0.85	0.55	79.50	86.66	79.21	82.28	76.64	78.07	96.35	101.92	122.46	131.05
07-Sep-89	0.18	0.85	0.00	79.54	86.73	79.25	82.32	76.68	78.11	96.34	101.93	122.50	131.06
08-Sep-89	0.14	0.85	0.33	79.58	86.79	79.28	82.36	76.71	78.14	96.33	101.90	122.52	131.06
09-Sep-89	0.19	0.85	0.26	79.56	86.79	79.28	82.36	76.71	78.14	96.32	101.87	122.54	131.06
10-Sep-89	0.23	0.85	0.00	79.56	86.76	79.27	82.34	76.69	78.13	96.32	101.84	122.59	131.06
11-Sep-89	0.21	0.85	0.00	79.56	86.76	79.27	82.34	76.69	78.13	96.31	101.80	122.65	131.07
12-Sep-89	0.21	0.85	0.00	79.54	86.73	79.25	82.32	76.68	78.11	96.30	101.77	122.70	131.07
13-Sep-89	0.23	0.85	0.00	79.57	86.78	79.26	82.35	76.70	78.14	96.29	101.74	122.75	131.07
14-Sep-89	0.17	0.85	0.00	79.59	86.81	79.29	82.37	76.72	78.15	96.30	101.71	122.81	131.07
15-Sep-89	0.18	0.85	0.01	79.61	86.84	79.31	82.38	76.73	78.17	96.32	101.71	122.86	131.08
16-Sep-89	0.22	0.85	0.42	79.60	86.83	79.30	82.37	76.72	78.16	96.33	101.72	122.81	131.08
17-Sep-89	0.13	0.85	0.55	79.71	87.00	79.40	82.48	76.81	78.26	96.35	101.72	122.76	131.08
18-Sep-89	0.11	0.85	0.33	79.81	87.16	79.49	82.57	76.89	78.35	96.36	101.73	122.70	131.08
19-Sep-89	0.21	0.85	0.00	79.73	87.03	79.42	82.50	76.83	78.26	96.38	101.73	122.65	131.09
20-Sep-89	0.23	0.85	0.00	79.70	86.99	79.39	82.47	76.80	78.25	96.39	101.74	122.60	131.09
21-Sep-89	0.22	0.85	0.00	79.74	87.05	79.43	82.51	76.84	78.29	96.40	101.74	122.55	131.09
22-Sep-89	0.23	0.85	0.00	79.71	87.00	79.40	82.48	76.81	78.26	96.41	101.74	122.49	131.09
23-Sep-89	0.06	0.85	0.75	79.73	87.03	79.42	82.50	76.83	78.26	96.42	101.73	122.44	131.10
24-Sep-89	0.06	0.85	0.32	79.71	87.00	79.40	82.48	76.81	78.26	96.42	101.73	122.50	131.10
25-Sep-89	0.10	0.85	0.42	79.78	87.12	79.47	82.54	76.87	78.32	96.43	101.73	122.56	131.10
26-Sep-89	0.01	0.85	0.26	79.78	87.12	79.47	82.54	76.87	78.32	96.44	101.72	122.62	131.10
27-Sep-89	0.08	0.85	0.02	79.72	86.72	79.41	82.49	76.82	78.27	96.45	101.72	122.68	131.11
28-Sep-89	0.15	0.85	0.00	79.72	87.02	79.41	82.49	76.82	78.27	96.44	101.71	122.74	131.11
29-Sep-89	0.16	0.85	0.38	79.76	87.08	79.45	82.53	76.85	78.31	96.44	101.69	122.80	131.11
30-Sep-89	0.18	0.85	0.00	79.75	87.07	79.44	82.52	76.84	78.30	96.43	101.68	122.79	131.11
01-Oct-89	0.24	0.76	0.57	79.78	87.12	79.47	82.54	76.87	78.32	96.43	101.68	122.78	131.12
02-Oct-89	0.21	0.76	1.30	79.8	87.15	79.48	82.56	76.88	78.34	96.42	101.65	122.76	131.12
03-Oct-89	0.18	0.76	0.00	79.78	87.12	79.47	82.54	76.87	78.32	96.42	101.63	122.75	131.11
04-Oct-89	0.15	0.76	0.00	79.78	87.12	79.47	82.54	76.87	78.32	96.41	101.62	122.74	131.10
05-Oct-89	0.20	0.76	0.00	79.73	87.03	79.42	82.50	76.83	78.28	96.39	101.60	122.73	131.08
06-Oct-89	0.19	0.76	0.00	79.71	87.00	79.40	82.48	76.81	78.26	96.38	101.59	122.71	131.07
07-Oct-89	0.21	0.76	0.00	79.73	87.03	79.42	82.50	76.83	78.28	96.34	101.54	122.70	131.06
08-Oct-89	0.26	0.76	0.25	79.78	87.12	79.47	82.54	76.87	78.32	96.32	101.48	122.67	131.05

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
09-Oct-89	0.18	0.78	0.00	79.72	87.02	79.41	82.49	76.82	78.27	96.29	101.43	122.64	131.03
10-Oct-89	0.11	0.78	0.00	79.76	87.08	79.45	82.53	76.85	78.31	96.27	101.37	122.62	131.02
11-Oct-89	0.07	0.78	0.00	79.72	87.02	79.41	82.49	76.82	78.27	96.27	101.33	122.58	131.01
12-Oct-89	0.13	0.78	0.05	79.66	86.92	79.36	82.43	76.77	78.22	96.26	101.26	122.53	131.00
13-Oct-89	0.13	0.78	0.00	79.66	86.92	79.36	82.43	76.77	78.22	96.25	101.26	122.49	130.99
14-Oct-89	0.18	0.78	0.00	79.65	86.91	79.35	82.42	76.76	78.21	96.24	101.24	122.44	130.98
15-Oct-89	0.16	0.78	0.00	79.6	86.83	79.30	82.37	76.72	78.16	96.23	101.22	122.43	130.97
16-Oct-89	0.06	0.78	0.00	79.58	86.79	79.28	82.36	76.71	78.14	96.22	101.19	122.41	130.96
17-Oct-89	0.19	0.78	0.00	79.57	86.78	79.28	82.35	76.70	78.14	96.21	101.17	122.40	130.95
18-Oct-89	0.15	0.78	0.27	79.62	86.86	79.32	82.39	76.74	78.18	96.19	101.15	122.38	130.94
19-Oct-89	0.16	0.78	0.66	79.59	86.81	79.29	82.37	76.72	78.15	96.17	101.13	122.37	130.93
20-Oct-89	0.14	0.78	0.02	79.49	86.65	79.20	82.27	76.64	78.06	96.14	101.09	122.35	130.92
21-Oct-89	0.15	0.78	0.00	79.41	86.52	79.13	82.19	76.57	77.99	96.12	101.05	122.34	130.91
22-Oct-89	0.13	0.78	0.00	79.41	86.52	79.13	82.19	76.57	77.99	96.10	101.01	122.33	130.90
23-Oct-89	0.14	0.78	0.00	79.44	86.57	79.16	82.22	76.60	78.02	96.08	100.98	122.31	130.89
24-Oct-89	0.15	0.78	0.00	79.44	86.57	79.16	82.22	76.60	78.02	96.05	100.94	122.30	130.88
25-Oct-89	0.17	0.78	0.00	79.46	86.60	79.17	82.24	76.61	78.04	96.03	100.90	122.29	130.87
26-Oct-89	0.20	0.78	0.00	79.44	86.57	79.16	82.22	76.60	78.02	96.02	100.86	122.27	130.86
27-Oct-89	0.11	0.78	0.00	79.46	86.60	79.17	82.24	76.61	78.04	96.01	100.78	122.26	130.85
28-Oct-89	0.14	0.78	0.00	79.44	86.57	79.16	82.22	76.60	78.02	96.00	100.67	122.24	130.84
29-Oct-89	0.22	0.78	0.00	79.49	86.65	79.20	82.27	76.64	78.06	95.98	100.57	122.22	130.83
30-Oct-89	0.20	0.78	0.00	79.5	86.5	79.21	82.28	76.64	78.07	95.97	100.47	122.20	130.82
31-Oct-89	0.01	0.78	0.00	79.4	86.50	79.12	82.19	76.57	77.98	95.96	100.37	122.18	130.81
01-Nov-89	0.08	0.71	0.00	79.34	86.41	79.07	82.13	76.52	77.93	95.95	100.28	122.16	130.80
02-Nov-89	0.12	0.71	0.00	79.34	86.41	79.07	82.13	76.52	77.93	95.94	100.18	122.14	130.79
03-Nov-89	0.16	0.71	0.00	79.3	86.34	79.03	82.08	76.49	77.89	95.93	100.20	122.12	130.78
04-Nov-89	0.09	0.71	0.00	79.21	86.20	78.95	82.01	76.41	77.81	95.92	100.22	122.10	130.78
05-Nov-89	0.12	0.71	0.00	79.17	86.13	78.91	81.97	76.38	77.78	95.90	100.25	122.09	130.77
06-Nov-89	0.15	0.71	0.00	79.21	86.20	78.95	82.01	76.41	77.81	95.89	100.27	122.09	130.77
07-Nov-89	0.12	0.71	0.00	79.23	86.23	78.96	82.02	76.43	77.83	95.88	100.29	122.08	130.76
08-Nov-89	0.13	0.71	0.00	79.27	86.29	79.00	82.06	76.46	77.87	95.87	100.31	122.08	130.76
09-Nov-89	0.13	0.71	1.02	79.31	86.36	79.04	82.10	76.49	77.90	95.87	100.33	122.07	130.75
10-Nov-89	0.07	0.71	0.03	79.25	86.26	78.96	82.04	76.45	77.85	95.86	100.35	122.07	130.75
11-Nov-89	0.12	0.71	0.00	79.25	86.15	78.92	81.98	76.39	77.79	95.86	100.36	122.06	130.75
12-Nov-89	0.13	0.71	0.00	79.16	86.12	78.90	81.96	76.37	77.77	95.86	100.40	122.05	130.74
13-Nov-89	0.11	0.71	0.00	79.17	86.13	78.91	81.97	76.38	77.78	95.86	100.42	122.03	130.74
14-Nov-89	0.14	0.71	0.00	79.22	86.21	78.96	82.02	76.42	77.82	95.85	100.44	122.02	130.73
15-Nov-89	0.05	0.71	0.00	79.29	86.32	79.02	82.08	76.48	77.88	95.85	100.42	122.00	130.73
16-Nov-89	0.08	0.71	0.09	79.32	86.37	79.05	82.11	76.50	77.91	95.83	100.40	121.99	130.72
17-Nov-89	0.13	0.71	0.00	79.24	86.24	78.97	82.03	76.44	77.84	95.81	100.37	121.97	130.72
18-Nov-89	0.10	0.71	0.00	79.11	86.03	78.86	81.91	76.33	77.72	95.79	100.35	121.96	130.72
19-Nov-89	0.08	0.71	0.00	79.07	85.97	78.82	81.87	76.30	77.69	95.77	100.33	121.95	130.71
20-Nov-89	0.08	0.71	0.00	79.16	86.12	78.90	81.96	76.37	77.77	95.75	100.31	121.94	130.71
21-Nov-89	0.14	0.71	0.00	79.24	86.24	78.97	82.03	76.44	77.84	95.75	100.28	121.93	130.70
22-Nov-89	0.09	0.71	0.00	79.23	86.23	78.96	82.02	76.43	77.83	95.75	100.26	121.93	130.70
23-Nov-89	0.07	0.71	0.62	79.21	86.20	78.95	82.01	76.41	77.81	95.75	100.24	121.92	130.69
24-Nov-89	0.09	0.71	0.00	79.07	85.97	78.82	81.87	76.30	77.69	95.75	100.22	121.91	130.69
25-Nov-89	0.11	0.71	0.00	79.12	86.05	78.86	81.92	76.34	77.73	95.75	100.19	121.90	130.69
26-Nov-89	0.07	0.71	0.05	79.19	86.16	78.93	81.99	76.40	77.79	95.75	100.17	121.89	130.68
27-Nov-89	0.10	0.71	0.00	79.19	86.16	78.93	81.99	76.40	77.79	95.75	100.15	121.87	130.68
28-Nov-89	0.04	0.71	0.00	79.18	85.97	78.92	81.96	76.39	77.79	95.75	100.13	121.86	130.67
29-Nov-89	0.07	0.71	0.00	79.16	86.12	78.90	81.96	76.37	77.77	95.75	100.10	121.84	130.67
30-Nov-89	0.21	0.71	0.00	79.03	85.91	78.78	81.84	76.27	77.65	95.73	100.06	121.83	130.66
01-Dec-89	0.10	0.83	0.00	79.06	85.95	78.81	81.86	76.29	77.68	95.71	100.06	121.81	130.66
02-Dec-89	0.11	0.83	0.00	79.07	85.97	78.82	81.87	76.30	77.69	95.69	100.04	121.80	130.65
03-Dec-89	0.17	0.83	0.00	79.07	85.97	78.82	81.87	76.30	77.69	95.67	100.01	121.79	130.63
04-Dec-89	0.13	0.83	0.00	79.02	85.89	78.77	81.83	76.26	77.64	95.65	99.99	121.77	130.62
05-Dec-89	0.09	0.83	0.00	79.06	85.95	78.81	81.86	76.29	77.68	95.63	99.97	121.76	130.61
06-Dec-89	0.11	0.83	0.00	79.06	85.99	78.83	81.88	76.31	77.70	95.61	99.95	121.75	130.60
07-Dec-89	0.08	0.83	0.00	79.02	85.89	78.77	81.83	76.26	77.64	95.59	99.92	121.73	130.58
08-Dec-89	0.11	0.83	0.00	79.14	86.08	78.88	81.94	76.36	77.75	95.58	99.90	121.72	130.57
09-Dec-89	0.13	0.83	1.67	79.16	86.12	78.90	81.96	76.37	77.77	95.58	99.89	121.72	130.57
10-Dec-89	0.15	0.83	0.02	79.01	85.67	78.76	81.82	76.26	77.63	95.55	99.88	121.75	130.58
11-Dec-89	0.04	0.83	0.00	79.02	85.89	78.77	81.83	76.26	77.64	95.55	99.87	121.73	130.58
12-Dec-89	0.08	0.83	0.00	79.12	86.05	78.86	81.92	76.34	77.73	95.55	99.87	121.72	130.58
13-Dec-89	0.15	0.83	0.27	79.05	85.94	78.80	81.85	76.29	77.67	95.59	99.86	121.70	130.59
14-Dec-89	0.09	0.83	0.00	78.96	85.63	78.63	81.67	76.14	77.50	95.59	99.85	121.69	130.59
15-Dec-89	0.09	0.83	0.00	78.95	85.78	78.71	81.76	76.21	77.58	95.59	99.84	121.67	130.60
16-Dec-89	0.06	0.83	0.25	78.96	85.79	78.72	81.77	76.22	77.59	95.59	99.83	121.66	130.60
17-Dec-89	0.09	0.83	0.01	78.88	85.66	78.65	81.69	76.15	77.52	95.58	99.81	121.66	130.60

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
18-Dec-89	0.05	0.83	0.05	78.9	85.70	78.66	81.71	78.17	77.53	95.58	99.80	121.65	130.61
19-Dec-89	0.01	0.83	0.43	78.95	85.78	78.71	81.76	78.21	77.58	95.57	99.78	121.65	130.61
20-Dec-89	0.01	0.83	0.64	78.93	85.74	78.69	81.74	78.19	77.56	95.57	99.77	121.65	130.62
21-Dec-89	0.04	0.83	0.00	78.9	85.70	78.66	81.71	78.17	77.53	95.57	99.78	121.65	130.62
22-Dec-89	0.07	0.83	0.00	78.82	85.57	78.59	81.64	78.10	77.46	95.58	99.74	121.64	130.62
23-Dec-89	0.05	0.83	0.36	78.7	85.37	78.48	81.52	78.01	77.35	95.58	99.73	121.64	130.63
24-Dec-89	0.05	0.83	0.27	78.59	85.20	78.38	81.42	75.92	77.26	95.58	99.72	121.63	130.63
25-Dec-89	0.05	0.83	0.05	78.51	85.07	78.31	81.34	75.86	77.18	95.58	99.70	121.62	130.64
26-Dec-89	0.08	0.83	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.58	99.68	121.62	130.64
27-Dec-89	0.08	0.83	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.58	99.68	121.62	130.64
28-Dec-89	0.10	0.83	0.00	78.67	85.45	78.45	81.50	75.98	77.33	95.58	99.67	121.61	130.65
29-Dec-89	0.07	0.83	0.00	78.71	85.39	78.49	81.53	76.02	77.36	95.59	99.68	121.61	130.65
30-Dec-89	0.07	0.83	0.00	78.74	85.44	78.52	81.56	76.04	77.39	95.59	99.65	121.60	130.65
31-Dec-89	0.11	0.83	0.00	78.81	85.55	78.58	81.63	76.10	77.45	95.59	99.64	121.59	130.66
01-Jan-90	0.15	0.77	0.25	78.77	85.49	78.54	81.59	76.06	77.42	95.59	99.62	121.59	130.66
02-Jan-90	0.16	0.77	0.00	78.65	85.29	78.44	81.48	75.97	77.31	95.59	99.61	121.58	130.66
03-Jan-90	0.12	0.77	0.00	78.72	85.41	78.50	81.54	76.02	77.37	95.59	99.60	121.58	130.67
04-Jan-90	0.10	0.77	0.00	78.75	85.45	78.53	81.57	76.05	77.40	95.59	99.59	121.57	130.67
05-Jan-90	0.05	0.77	0.00	78.79	85.52	78.56	81.61	76.08	77.44	95.59	99.59	121.57	130.68
06-Jan-90	0.05	0.77	0.00	78.83	85.58	78.60	81.65	76.11	77.47	95.59	99.58	121.56	130.68
07-Jan-90	0.03	0.77	0.57	78.87	85.65	78.64	81.68	76.14	77.51	95.59	99.58	121.55	130.68
08-Jan-90	0.07	0.77	0.46	78.86	85.63	78.63	81.67	76.14	77.50	95.59	99.57	121.54	130.68
09-Jan-90	0.15	0.77	0.00	78.72	85.41	78.50	81.54	76.02	77.37	95.59	99.57	121.53	130.68
10-Jan-90	0.06	0.77	0.00	78.75	85.45	78.53	81.57	76.05	77.40	95.59	99.56	121.53	130.68
11-Jan-90	0.09	0.77	0.00	78.76	85.47	78.54	81.58	76.06	77.41	95.58	99.53	121.52	130.67
12-Jan-90	0.10	0.77	0.00	78.81	85.55	78.58	81.63	76.10	77.45	95.58	99.50	121.51	130.67
13-Jan-90	0.23	0.77	0.00	78.82	85.24	78.41	81.45	75.95	77.28	95.55	99.47	121.50	130.67
14-Jan-90	0.13	0.77	0.00	78.56	85.15	78.35	81.39	75.90	77.23	95.53	99.45	121.49	130.67
15-Jan-90	0.10	0.77	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.52	99.42	121.48	130.67
16-Jan-90	0.13	0.77	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.50	99.39	121.47	130.67
17-Jan-90	0.13	0.77	0.00	78.63	85.26	78.42	81.46	75.95	77.29	95.49	99.38	121.47	130.67
18-Jan-90	0.11	0.77	0.00	78.66	85.31	78.44	81.49	75.98	77.32	95.48	99.35	121.46	130.67
19-Jan-90	0.10	0.77	0.00	78.69	85.36	78.47	81.51	76.00	77.35	95.48	99.35	121.45	130.67
20-Jan-90	0.13	0.77	0.00	78.68	85.34	78.46	81.50	75.99	77.34	95.47	99.34	121.44	130.67
21-Jan-90	0.15	0.77	0.00	78.7	85.37	78.48	81.52	76.01	77.35	95.47	99.34	121.43	130.66
22-Jan-90	0.08	0.77	0.00	78.69	85.36	78.47	81.51	76.00	77.35	95.48	99.33	121.41	130.66
23-Jan-90	0.15	0.77	0.00	78.65	85.29	78.44	81.48	75.97	77.31	95.46	99.33	121.40	130.66
24-Jan-90	0.13	0.77	0.00	78.67	85.32	78.45	81.50	75.98	77.33	95.45	99.32	121.38	130.66
25-Jan-90	0.12	0.77	0.00	78.71	85.39	78.49	81.53	76.02	77.36	95.45	99.18	121.37	130.66
26-Jan-90	0.20	0.77	0.21	78.6	85.21	78.39	81.43	75.93	77.26	95.44	99.17	121.35	130.67
27-Jan-90	0.15	0.77	0.00	78.44	84.95	78.24	81.26	75.80	77.12	95.42	99.17	121.34	130.67
28-Jan-90	0.13	0.77	0.00	78.6	85.21	78.39	81.43	75.93	77.26	95.41	99.18	121.34	130.68
29-Jan-90	0.12	0.77	0.00	78.77	85.49	78.54	81.59	76.06	77.42	95.40	99.15	121.34	130.68
30-Jan-90	0.11	0.77	0.00	78.73	85.42	78.51	81.55	76.03	77.38	95.39	99.15	121.34	130.69
31-Jan-90	0.09	0.77	0.39	78.7	85.35	78.48	81.52	76.01	77.35	95.37	99.14	121.34	130.69
01-Feb-90	0.12	0.69	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.36	99.11	121.34	130.70
02-Feb-90	0.09	0.69	0.00	78.61	85.23	78.40	81.44	75.94	77.27	95.35	99.08	121.34	130.70
03-Feb-90	0.13	0.69	0.00	78.61	85.23	78.40	81.44	75.94	77.27	95.34	99.05	121.34	130.70
04-Feb-90	0.16	0.69	0.00	78.64	85.28	78.43	81.47	75.96	77.30	95.34	99.02	121.34	130.69
05-Feb-90	0.20	0.69	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.33	98.99	121.34	130.69
06-Feb-90	0.22	0.69	0.00	78.48	85.02	78.28	81.32	75.83	77.16	95.32	98.98	121.34	130.69
07-Feb-90	0.10	0.69	0.00	78.51	85.07	78.31	81.34	75.86	77.18	95.31	98.90	121.34	130.69
08-Feb-90	0.14	0.69	0.00	78.5	85.05	78.30	81.33	75.85	77.17	95.31	98.97	121.34	130.68
09-Feb-90	0.12	0.69	0.00	78.51	85.07	78.31	81.34	75.86	77.18	95.30	98.95	121.34	130.68
10-Feb-90	0.16	0.69	0.00	78.58	85.18	78.37	81.41	75.91	77.25	95.30	98.92	121.34	130.68
11-Feb-90	0.07	0.69	0.69	78.61	85.23	78.40	81.44	75.94	77.27	95.30	98.90	121.33	130.67
12-Feb-90	0.15	0.69	0.00	78.5	85.05	78.30	81.33	75.85	77.17	95.30	98.87	121.32	130.67
13-Feb-90	0.18	0.69	0.00	78.42	84.92	78.23	81.26	75.79	77.10	95.29	98.85	121.31	130.67
14-Feb-90	0.15	0.69	0.00	78.43	84.94	78.23	81.27	75.79	77.11	95.29	98.82	121.31	130.67
15-Feb-90	0.15	0.69	0.00	78.44	84.95	78.24	81.28	75.80	77.12	95.33	98.83	121.30	130.66
16-Feb-90	0.17	0.69	0.00	78.48	85.02	78.28	81.32	75.83	77.16	95.38	98.84	121.29	130.66
17-Feb-90	0.18	0.69	0.47	78.49	85.03	78.29	81.33	75.84	77.17	95.40	98.85	121.28	130.66
18-Feb-90	0.17	0.69	0.13	78.49	85.03	78.29	81.33	75.84	77.17	95.44	98.85	121.29	130.65
19-Feb-90	0.00	0.69	0.01	78.57	85.16	78.36	81.40	75.91	77.24	95.48	98.86	121.30	130.65
20-Feb-90	0.16	0.69	0.15	78.58	85.13	78.37	81.41	75.91	77.25	95.51	98.87	121.31	130.65
21-Feb-90	0.05	0.69	0.00	78.57	85.16	78.36	81.40	75.91	77.24	95.55	98.88	121.33	130.65
22-Feb-90	0.02	0.69	0.00	78.64	85.28	78.43	81.47	75.96	77.30	95.58	98.88	121.34	130.64
23-Feb-90	0.18	0.69	1.07	78.78	85.47	78.54	81.58	76.06	77.41	95.57	98.89	121.35	130.64
24-Feb-90	0.14	0.69	0.14	78.69	85.36	78.47	81.51	76.00	77.35	95.58	98.89	121.36	130.64
25-Feb-90	0.18	0.69	0.00	78.61	85.23	78.40	81.44	75.94	77.27	95.60	98.89	121.34	130.64

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0118 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
26-Feb-90	0.21	0.69	0.00	78.56	85.15	78.35	81.39	75.90	77.23	95.61	98.89	121.32	130.63
27-Feb-90	0.15	0.69	0.00	78.57	85.16	78.36	81.40	75.91	77.24	95.62	98.90	121.30	130.63
28-Feb-90	0.16	0.69	0.00	78.65	85.29	78.44	81.48	75.97	77.31	95.63	98.90	121.29	130.63
01-Mar-90	0.12	0.73	0.00	78.7	85.37	78.48	81.52	76.01	77.35	95.63	98.88	121.28	130.62
02-Mar-90	0.18	0.73	0.00	78.81	85.55	78.58	81.63	76.10	77.45	95.62	98.86	121.24	130.62
03-Mar-90	0.13	0.73	0.43	78.93	85.74	78.69	81.74	76.19	77.56	95.62	98.84	121.22	130.62
04-Mar-90	0.18	0.73	0.00	78.87	85.65	78.64	81.68	76.14	77.51	95.62	98.82	121.21	130.62
05-Mar-90	0.15	0.73	0.00	78.79	85.52	78.56	81.61	76.08	77.44	95.62	98.80	121.19	130.61
06-Mar-90	0.18	0.73	0.00	78.75	85.45	78.53	81.57	76.05	77.40	95.61	98.78	121.18	130.61
07-Mar-90	0.19	0.73	0.00	78.73	85.42	78.51	81.55	76.03	77.38	95.61	98.76	121.17	130.61
08-Mar-90	0.16	0.73	0.04	78.69	85.36	78.47	81.51	76.00	77.35	95.60	98.73	121.15	130.60
09-Mar-90	0.18	0.73	0.00	78.7	85.37	78.48	81.52	76.01	77.35	95.58	98.70	121.14	130.60
10-Mar-90	0.17	0.73	0.00	78.68	85.34	78.46	81.50	75.99	77.34	95.57	98.67	121.13	130.60
11-Mar-90	0.13	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.55	98.65	121.11	130.60
12-Mar-90	0.22	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.54	98.62	121.10	130.59
13-Mar-90	0.21	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.52	98.59	121.09	130.59
14-Mar-90	0.23	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.51	98.56	121.07	130.59
15-Mar-90	0.23	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.50	98.54	121.06	130.58
16-Mar-90	0.19	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.50	98.53	121.05	130.58
17-Mar-90	0.19	0.73	0.00	78.62	85.24	78.41	81.45	75.95	77.28	95.49	98.51	121.04	130.58
18-Mar-90	0.14	0.73	0.58	78.61	85.23	78.40	81.44	75.94	77.27	95.49	98.49	121.02	130.58
19-Mar-90	0.19	0.73	0.00	78.61	85.23	78.40	81.44	75.94	77.27	95.48	98.47	121.01	130.57
20-Mar-90	0.20	0.73	0.00	78.59	85.20	78.38	81.42	75.92	77.26	95.48	98.46	121.00	130.57
21-Mar-90	0.22	0.73	0.00	78.46	84.99	78.26	81.30	75.82	77.14	95.47	98.44	120.99	130.57
22-Mar-90	0.18	0.73	0.00	78.37	84.84	78.18	81.21	75.75	77.08	95.45	98.40	120.97	130.56
23-Mar-90	0.18	0.73	0.00	78.45	84.97	78.25	81.29	75.81	77.13	95.43	98.36	120.96	130.56
24-Mar-90	0.19	0.73	0.00	78.45	84.97	78.25	81.29	75.81	77.13	95.41	98.33	120.95	130.56
25-Mar-90	0.20	0.73	0.00	78.43	84.94	78.23	81.27	75.79	77.11	95.39	98.30	120.94	130.56
26-Mar-90	0.19	0.73	0.00	78.4	84.89	78.21	81.24	75.77	77.09	95.37	98.27	120.93	130.56
27-Mar-90	0.20	0.73	0.00	78.41	84.79	78.22	81.25	75.78	77.09	95.35	98.24	120.92	130.56
28-Mar-90	0.18	0.73	0.00	78.38	84.86	78.19	81.22	75.75	77.07	95.33	98.21	120.91	130.57
29-Mar-90	0.22	0.73	1.09	78.38	84.86	78.19	81.22	75.75	77.07	95.31	98.18	120.90	130.57
30-Mar-90	0.18	0.73	0.00	78.38	84.86	78.19	81.22	75.75	77.07	95.32	98.18	120.89	130.57
31-Mar-90	0.24	0.73	1.48	78.48	84.99	78.26	81.30	75.82	77.14	95.34	98.18	120.88	130.56
01-Apr-90	0.14	0.84	0.00	78.46	84.99	78.26	81.30	75.82	77.14	95.35	98.18	120.87	130.56
02-Apr-90	0.17	0.84	0.00	78.43	84.94	78.23	81.27	75.79	77.11	95.36	98.18	120.86	130.55
03-Apr-90	0.21	0.84	2.11	78.53	85.10	78.33	81.36	75.87	77.20	95.36	98.18	120.85	130.54
04-Apr-90	0.29	0.84	0.00	78.52	85.08	78.32	81.35	75.87	77.19	95.39	98.18	120.84	130.53
05-Apr-90	0.24	0.84	0.00	78.45	84.97	78.25	81.29	75.81	77.13	95.37	98.14	120.83	130.53
06-Apr-90	0.21	0.84	0.00	78.45	84.97	78.25	81.29	75.81	77.13	95.34	98.11	120.82	130.52
07-Apr-90	0.25	0.84	0.00	78.39	84.87	78.20	81.23	75.76	77.08	95.32	98.07	120.80	130.51
08-Apr-90	0.21	0.84	0.00	78.24	84.63	78.06	81.09	75.64	76.94	95.30	98.03	120.77	130.50
09-Apr-90	0.27	0.84	0.00	78.2	84.57	78.02	81.05	75.61	76.91	95.28	97.99	120.75	130.49
10-Apr-90	0.21	0.84	0.00	78.22	84.60	78.04	81.07	75.63	76.92	95.25	97.96	120.73	130.48
11-Apr-90	0.19	0.84	0.01	78.34	84.79	78.15	81.18	75.72	77.03	95.23	97.92	120.71	130.47
12-Apr-90	0.21	0.84	0.00	78.29	84.71	78.11	81.14	75.68	76.99	95.20	97.89	120.68	130.48
13-Apr-90	0.26	0.84	0.00	78.21	84.58	78.03	81.06	75.62	76.91	95.18	97.86	120.66	130.46
14-Apr-90	0.25	0.84	0.00	78.18	84.53	78.01	81.03	75.60	76.89	95.15	97.83	120.65	130.45
15-Apr-90	0.21	0.84	0.00	78.18	84.53	78.01	81.03	75.60	76.89	95.13	97.80	120.63	130.44
16-Apr-90	0.16	0.84	0.00	78.18	84.53	78.01	81.03	75.60	76.89	95.10	97.77	120.62	130.43
17-Apr-90	0.23	0.84	0.00	78.15	84.49	77.98	81.00	75.57	76.86	95.08	97.74	120.60	130.42
18-Apr-90	0.23	0.84	0.00	78.06	84.34	77.90	80.92	75.50	76.78	95.05	97.71	120.58	130.42
19-Apr-90	0.27	0.84	0.00	78.02	84.28	77.86	80.88	75.47	76.74	95.04	97.69	120.57	130.43
20-Apr-90	0.18	0.84	0.00	77.99	84.23	77.83	80.85	75.44	76.72	95.03	97.67	120.56	130.43
21-Apr-90	0.27	0.84	0.00	78.03	84.29	77.87	80.89	75.48	76.75	95.02	97.65	120.56	130.44
22-Apr-90	0.16	0.84	0.00	78.1	84.41	77.93	80.96	75.53	76.82	95.02	97.62	120.55	130.44
23-Apr-90	0.21	0.84	0.50	78.11	84.42	77.94	80.97	75.54	76.82	95.01	97.60	120.54	130.45
24-Apr-90	0.12	0.84	0.12	78.12	84.57	77.95	80.98	75.55	76.83	95.00	97.58	120.52	130.45
25-Apr-90	0.27	0.84	0.00	78.09	84.39	77.92	80.95	75.52	76.81	94.99	97.56	120.51	130.45
26-Apr-90	0.27	0.84	0.00	78.06	84.34	77.90	80.92	75.50	76.78	94.99	97.55	120.50	130.46
27-Apr-90	0.28	0.84	0.00	78.03	84.29	77.87	80.89	75.48	76.75	94.99	97.53	120.49	130.46
28-Apr-90	0.31	0.84	0.00	78.07	84.36	77.91	80.93	75.51	76.79	94.99	97.52	120.49	130.47
29-Apr-90	0.17	0.84	0.93	78.11	84.42	77.94	80.97	75.54	76.82	94.99	97.50	120.48	130.47
30-Apr-90	0.23	0.84	0.00	78.04	84.31	77.88	80.90	75.48	76.76	94.99	97.49	120.47	130.48
01-May-90	0.28	0.82	0.00	78.04	84.31	77.88	80.90	75.48	76.76	94.99	97.47	120.47	130.48
02-May-90	0.29	0.82	0.00	77.95	84.16	77.80	80.81	75.41	76.68	94.99	97.46	120.46	130.48
03-May-90	0.33	0.82	0.00	77.91	84.10	77.76	80.78	75.38	76.65	94.96	97.42	120.45	130.47
04-May-90	0.27	0.82	0.00	77.86	84.02	77.71	80.73	75.34	76.60	94.93	97.39	120.44	130.47
05-May-90	0.19	0.82	0.00	77.97	84.20	77.81	80.83	75.43	76.70	94.90	97.35	120.44	130.48
06-May-90	0.30	0.82	0.00	77.93	84.13	77.78	80.80	75.40	76.66	94.86	97.31	120.43	130.46

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
07-May-90	0.17	0.82	0.00	77.82	83.95	77.68	80.69	75.31	76.56	94.83	97.27	120.42	130.45
08-May-90	0.32	0.82	0.00	77.76	83.86	77.82	80.64	75.28	76.51	94.80	97.24	120.42	130.45
09-May-90	0.25	0.82	0.01	77.78	83.89	77.64	80.65	75.28	76.53	94.77	97.20	120.41	130.44
10-May-90	0.10	0.82	0.53	77.91	84.10	77.76	80.78	75.38	76.65	94.77	97.19	120.40	130.44
11-May-90	0.31	0.82	0.00	77.79	83.90	77.65	80.66	75.29	76.54	94.77	97.18	120.40	130.43
12-May-90	0.32	0.82	0.00	77.73	83.81	77.80	80.61	75.24	76.48	94.77	97.17	120.39	130.43
13-May-90	0.27	0.82	0.00	77.7	83.76	77.57	80.58	75.21	76.46	94.77	97.15	120.38	130.43
14-May-90	0.34	0.82	0.00	77.67	83.71	77.54	80.55	75.19	76.43	94.77	97.14	120.38	130.42
15-May-90	0.32	0.82	1.34	77.65	83.68	77.52	80.53	75.17	76.41	94.77	97.13	120.37	130.42
16-May-90	0.20	0.82	0.00	77.71	83.78	77.58	80.59	75.22	76.47	94.77	97.12	120.38	130.41
17-May-90	0.32	0.82	0.00	77.71	83.78	77.58	80.59	75.22	76.47	94.74	97.10	120.35	130.41
18-May-90	0.31	0.82	0.00	77.69	83.74	77.56	80.57	75.21	76.45	94.72	97.07	120.35	130.40
19-May-90	0.31	0.82	0.00	77.66	83.70	77.53	80.54	75.18	76.42	94.69	97.05	120.34	130.40
20-May-90	0.23	0.82	0.00	77.68	83.73	77.55	80.56	75.20	76.44	94.67	97.03	120.33	130.39
21-May-90	0.33	0.82	0.00	77.65	83.68	77.52	80.53	75.17	76.41	94.64	97.01	120.33	130.39
22-May-90	0.23	0.82	0.03	77.64	83.66	77.51	80.52	75.17	76.40	94.62	96.98	120.32	130.38
23-May-90	0.16	0.82	0.00	77.64	83.66	77.51	80.52	75.17	76.40	94.59	96.96	120.30	130.38
24-May-90	0.26	0.82	0.00	77.56	83.53	77.44	80.45	75.10	76.33	94.55	96.93	120.27	130.37
25-May-90	0.30	0.82	0.00	77.46	83.37	77.35	80.35	75.02	76.24	94.51	96.90	120.25	130.37
26-May-90	0.17	0.82	0.00	77.43	83.32	77.32	80.32	75.00	76.21	94.48	96.86	120.30	130.36
27-May-90	0.29	0.82	0.00	77.46	83.37	77.35	80.35	75.02	76.24	94.47	96.83	120.27	130.35
28-May-90	0.33	0.82	1.27	77.46	83.37	77.35	80.35	75.02	76.24	94.45	96.79	120.25	130.34
29-May-90	0.27	0.82	0.00	77.37	83.23	77.27	80.27	74.95	76.16	94.43	96.78	120.22	130.33
30-May-90	0.29	0.82	0.00	77.3	83.16	77.20	80.20	74.90	76.10	94.41	96.72	120.19	130.32
31-May-90	0.33	0.82	0.00	77.23	83.00	77.14	80.13	74.84	76.04	94.41	96.70	120.18	130.31
01-Jun-90	0.28	0.85	0.00	77.16	82.89	77.07	80.07	74.78	75.97	94.40	96.69	120.06	130.30
02-Jun-90	0.32	0.85	0.00	77.1	82.79	77.02	80.01	74.74	75.92	94.40	96.67	120.06	130.30
03-Jun-90	0.27	0.85	0.15	77.22	82.99	77.13	80.12	74.83	76.03	94.40	96.65	120.06	130.30
04-Jun-90	0.28	0.85	0.00	77.26	83.05	77.17	80.16	74.86	76.06	94.40	96.63	120.07	130.31
05-Jun-90	0.04	0.85	1.15	77.33	83.16	77.23	80.23	74.92	76.12	94.39	96.62	120.07	130.31
06-Jun-90	0.20	0.85	0.00	77.29	83.10	77.19	80.19	74.89	76.09	94.39	96.60	120.07	130.31
07-Jun-90	0.25	0.85	0.26	77.35	83.20	77.25	80.25	74.94	76.14	94.39	96.60	120.07	130.31
08-Jun-90	0.19	0.85	0.14	77.42	83.31	77.31	80.31	74.99	76.21	94.40	96.61	120.08	130.32
09-Jun-90	0.17	0.85	0.03	77.4	83.28	77.29	80.29	74.98	76.19	94.40	96.61	120.08	130.32
10-Jun-90	0.19	0.85	0.00	77.36	83.24	77.26	80.26	74.96	76.17	94.40	96.61	120.08	130.32
11-Jun-90	0.20	0.85	0.01	77.39	83.26	77.28	80.29	74.97	76.18	94.40	96.61	120.08	130.32
12-Jun-90	0.32	0.85	0.00	77.37	83.23	77.27	80.27	74.95	76.16	94.41	96.62	120.08	130.32
13-Jun-90	0.37	0.85	0.00	77.3	83.11	77.20	80.20	74.90	76.10	94.41	96.62	120.09	130.33
14-Jun-90	0.30	0.85	0.00	77.26	83.05	77.17	80.16	74.86	76.06	94.39	96.58	120.09	130.33
15-Jun-90	0.25	0.85	0.00	77.27	83.07	77.18	80.17	74.87	76.07	94.37	96.55	120.09	130.33
16-Jun-90	0.27	0.85	0.00	77.21	82.97	77.12	80.12	74.82	76.02	94.35	96.51	120.09	130.33
17-Jun-90	0.24	0.85	0.01	77.18	82.92	77.09	80.09	74.80	75.99	94.33	96.47	120.10	130.34
18-Jun-90	0.25	0.85	0.45	77.15	82.87	77.07	80.06	74.78	75.96	94.31	96.43	120.10	130.34
19-Jun-90	0.30	0.85	0.00	77.23	83.00	77.14	80.13	74.84	76.04	94.29	96.40	120.10	130.34
20-Jun-90	0.30	0.85	0.00	77.1	82.79	77.02	80.01	74.74	75.92	94.27	96.36	120.10	130.34
21-Jun-90	0.32	0.85	0.00	77.04	82.69	76.97	79.95	74.69	75.86	94.23	96.32	120.10	130.34
22-Jun-90	0.31	0.85	0.01	77.08	82.76	77.00	79.99	74.72	75.90	94.27	96.35	120.10	130.35
23-Jun-90	0.16	0.85	2.86	77.29	83.10	77.19	80.19	74.89	76.09	94.30	96.38	120.12	130.35
24-Jun-90	0.13	0.85	0.64	77.43	83.32	77.32	80.32	75.00	76.21	94.34	96.41	120.13	130.35
25-Jun-90	0.15	0.85	0.00	77.39	82.76	77.28	80.29	74.97	76.18	94.36	96.44	120.15	130.35
26-Jun-90	0.26	0.85	0.00	77.34	83.18	77.24	80.24	74.93	76.13	94.41	96.47	120.16	130.36
27-Jun-90	0.10	0.85	3.26	77.32	83.15	77.22	80.22	74.91	76.12	94.45	96.50	120.18	130.36
28-Jun-90	0.16	0.85	0.00	77.29	83.10	77.19	80.19	74.89	76.09	94.44	96.51	120.19	130.36
29-Jun-90	0.22	0.85	0.00	77.27	83.07	77.18	80.17	74.87	76.07	94.44	96.53	120.21	130.36
30-Jun-90	0.24	0.85	0.08	77.33	83.16	77.23	80.23	74.92	76.12	94.43	96.54	120.22	130.37
01-Jul-90	0.27	0.91	0.00	77.45	83.36	77.34	80.34	75.02	76.23	94.42	96.55	120.21	130.37
02-Jul-90	0.26	0.91	0.02	77.43	83.32	77.32	80.32	75.00	76.21	94.42	96.57	120.20	130.37
03-Jul-90	0.19	0.91	0.68	77.41	83.29	77.30	80.30	74.98	76.20	94.41	96.58	120.19	130.37
04-Jul-90	0.06	0.91	0.05	77.3	83.11	77.20	80.20	74.90	76.10	94.39	96.55	120.18	130.37
05-Jul-90	0.18	0.91	0.00	77.28	83.08	77.18	80.18	74.88	76.08	94.38	96.52	120.17	130.38
06-Jul-90	0.26	0.91	0.11	77.3	83.11	77.20	80.20	74.90	76.10	94.36	96.48	120.16	130.38
07-Jul-90	0.32	0.91	0.00	77.21	82.97	77.12	80.12	74.82	76.02	94.34	96.45	120.15	130.38
08-Jul-90	0.27	0.91	0.00	77.25	83.03	77.16	80.15	74.86	76.05	94.32	96.42	120.14	130.38
09-Jul-90	0.30	0.91	0.00	77.16	82.89	77.07	80.07	74.78	75.97	94.31	96.39	120.13	130.39
10-Jul-90	0.29	0.91	0.00	77.1	82.79	77.02	80.01	74.74	75.92	94.29	96.35	120.12	130.39
11-Jul-90	0.28	0.91	0.05	77.08	82.76	77.00	79.99	74.72	75.90	94.27	96.32	120.11	130.39
12-Jul-90	0.28	0.91	0.86	77.09	82.78	77.01	80.00	74.73	75.91	94.26	96.30	120.10	130.39
13-Jul-90	0.32	0.91	1.13	77.23	83.00	77.14	80.13	74.84	76.04	94.25	96.29	120.09	130.39
14-Jul-90	0.10	0.91	2.47	77.29	83.10	77.19	80.19	74.89	76.09	94.24	96.27	120.08	130.40
15-Jul-90	0.05	0.91	2.63	77.35	83.20	77.25	80.25	74.94	76.14	94.24	96.25	120.07	130.40

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0118 (ft MSL)	Geneva Floridan Well C-0438 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
16-Jul-90	0.20	0.91	0.00	77.25	83.03	77.16	80.15	74.86	76.05	94.23	96.23	120.06	130.40
17-Jul-90	0.21	0.91	0.18	77.24	83.02	77.15	80.14	74.85	76.04	94.22	96.22	120.05	130.40
18-Jul-90	0.22	0.91	0.00	77.21	82.97	77.12	80.12	74.82	76.02	94.21	96.20	120.04	130.41
19-Jul-90	0.18	0.91	0.01	77.27	83.07	77.18	80.17	74.87	76.07	94.24	96.23	120.03	130.41
20-Jul-90	0.27	0.91	1.32	77.29	83.10	77.19	80.19	74.89	76.09	94.27	96.26	120.02	130.41
21-Jul-90	0.22	0.91	0.53	77.33	83.16	77.23	80.23	74.92	76.12	94.29	96.26	120.05	130.41
22-Jul-90	0.24	0.91	0.25	77.37	83.23	77.27	80.27	74.95	76.16	94.30	96.26	120.09	130.41
23-Jul-90	0.24	0.91	0.00	77.38	82.98	77.28	80.28	74.96	76.17	94.32	96.26	120.12	130.41
24-Jul-90	0.32	0.91	0.00	77.35	83.20	77.25	80.25	74.94	76.14	94.33	96.26	120.10	130.41
25-Jul-90	0.30	0.91	0.00	77.31	83.13	77.21	80.21	74.90	76.11	94.35	96.26	120.09	130.41
26-Jul-90	0.27	0.91	0.00	77.26	83.05	77.17	80.16	74.86	76.06	94.34	96.24	120.07	130.40
27-Jul-90	0.31	0.91	0.00	77.28	83.05	77.17	80.16	74.86	76.06	94.34	96.21	120.06	130.40
28-Jul-90	0.32	0.91	0.07	77.34	83.18	77.24	80.24	74.93	76.13	94.33	96.19	120.04	130.40
29-Jul-90	0.12	0.91	0.00	77.43	83.32	77.32	80.32	75.00	76.21	94.33	96.17	120.02	130.40
30-Jul-90	0.27	0.91	0.00	77.33	83.16	77.23	80.23	74.92	76.12	94.32	96.15	120.01	130.40
31-Jul-90	0.28	0.91	0.00	77.28	83.08	77.18	80.18	74.88	76.08	94.32	96.12	119.99	130.40
01-Aug-90	0.28	0.91	0.00	77.17	82.90	77.08	80.08	74.79	75.98	94.31	96.10	119.97	130.40
02-Aug-90	0.29	0.91	0.00	77.14	82.86	77.06	80.06	74.77	75.95	94.31	96.08	119.96	130.39
03-Aug-90	0.21	0.91	0.05	77.15	82.87	77.07	80.06	74.78	75.96	94.30	96.06	119.94	130.38
04-Aug-90	0.16	0.91	0.36	77.1	82.79	77.02	80.01	74.74	75.92	94.30	96.04	119.93	130.38
05-Aug-90	0.24	0.91	0.00	77.09	82.78	77.01	80.00	74.73	75.91	94.29	96.02	119.91	130.37
06-Aug-90	0.31	0.91	0.00	77.02	82.66	76.95	79.94	74.67	75.85	94.27	95.98	119.89	130.36
07-Aug-90	0.27	0.91	0.00	77.07	82.74	76.99	79.98	74.71	75.89	94.26	95.94	119.88	130.36
08-Aug-90	0.15	0.91	2.35	77.07	82.74	76.99	79.98	74.71	75.89	94.24	95.90	119.86	130.35
09-Aug-90	0.10	0.91	0.11	77.08	82.76	77.00	79.99	74.72	75.90	94.22	95.87	119.84	130.34
10-Aug-90	0.06	0.91	0.09	77.08	82.76	77.00	79.99	74.72	75.90	94.21	95.84	119.83	130.34
11-Aug-90	0.16	0.91	0.21	77.07	82.74	76.99	79.98	74.71	75.89	94.19	95.81	119.81	130.33
12-Aug-90	0.17	0.91	0.03	77.06	82.73	76.98	79.97	74.71	75.88	94.17	95.78	119.80	130.32
13-Aug-90	0.23	0.91	0.00	77.01	82.65	76.94	79.93	74.67	75.84	94.16	95.75	119.78	130.31
14-Aug-90	0.20	0.91	0.67	76.99	82.61	76.92	79.91	74.65	75.82	94.14	95.73	119.77	130.31
15-Aug-90	0.14	0.91	0.14	76.95	82.55	76.88	79.87	74.62	75.78	94.13	95.70	119.76	130.30
16-Aug-90	0.18	0.91	0.01	76.96	82.57	76.89	79.88	74.63	75.79	94.11	95.67	119.75	130.29
17-Aug-90	0.22	0.91	0.00	77.03	82.68	76.96	79.95	74.68	75.86	94.09	95.64	119.73	130.29
18-Aug-90	0.26	0.91	0.50	77.09	82.78	77.01	80.00	74.73	75.91	94.08	95.61	119.72	130.28
19-Aug-90	0.25	0.91	0.00	77	82.63	76.93	79.92	74.66	75.83	94.06	95.58	119.71	130.27
20-Aug-90	0.28	0.91	0.00	76.96	82.57	76.89	79.88	74.63	75.79	94.04	95.55	119.70	130.27
21-Aug-90	0.27	0.91	1.52	76.93	82.52	76.86	79.85	74.60	75.77	94.03	95.47	119.68	130.26
22-Aug-90	0.26	0.91	0.05	76.94	82.53	76.87	79.86	74.61	75.77	94.01	95.38	119.65	130.25
23-Aug-90	0.14	0.91	0.23	76.92	82.50	76.86	79.84	74.58	75.76	94.00	95.36	119.63	130.24
24-Aug-90	0.10	0.91	0.00	76.87	82.42	76.81	79.79	74.55	75.71	93.99	95.34	119.60	130.24
25-Aug-90	0.23	0.91	0.00	76.9	82.47	76.84	79.82	74.58	75.74	93.98	95.31	119.58	130.23
26-Aug-90	0.19	0.91	0.00	76.95	82.55	76.88	79.87	74.62	75.78	93.98	95.29	119.56	130.22
27-Aug-90	0.22	0.91	0.00	76.95	82.55	76.88	79.87	74.62	75.78	93.97	95.27	119.54	130.22
28-Aug-90	0.34	0.91	1.35	76.95	82.5	76.88	79.87	74.62	75.78	93.96	95.25	119.52	130.21
29-Aug-90	0.21	0.91	0.00	76.89	82.45	76.83	79.81	74.57	75.73	93.95	95.23	119.50	130.20
30-Aug-90	0.26	0.91	0.00	76.82	82.34	76.76	79.75	74.51	75.67	93.94	95.20	119.48	130.19
31-Aug-90	0.21	0.91	0.43	76.81	82.33	76.76	79.74	74.51	75.66	93.93	95.18	119.46	130.19
01-Sep-90	0.13	0.85	0.00	76.81	82.32	76.75	79.73	74.50	75.65	93.92	95.16	119.44	130.18
02-Sep-90	0.25	0.85	0.29	76.80	82.31	76.75	79.73	74.50	75.65	93.90	95.14	119.42	130.17
03-Sep-90	0.17	0.85	0.11	76.79	82.30	76.74	79.72	74.49	75.64	93.89	95.12	119.41	130.15
04-Sep-90	0.24	0.85	0.00	76.79	82.28	76.73	79.71	74.49	75.64	93.88	95.09	119.39	130.14
05-Sep-90	0.18	0.85	0.00	76.78	82.27	76.73	79.71	74.48	75.63	93.87	95.07	119.37	130.12
06-Sep-90	0.18	0.85	0.18	76.77	82.26	76.72	79.70	74.48	75.62	93.85	95.05	119.35	130.11
07-Sep-90	0.21	0.85	0.00	76.77	82.25	76.71	79.69	74.47	75.62	93.84	95.03	119.34	130.09
08-Sep-90	0.20	0.85	0.00	76.76	82.24	76.71	79.69	74.47	75.61	93.82	95.00	119.32	130.08
09-Sep-90	0.23	0.85	0.00	76.75	82.23	76.70	79.68	74.46	75.61	93.81	94.98	119.30	130.06
10-Sep-90	0.19	0.85	0.00	76.74	82.22	76.70	79.68	74.45	75.60	93.79	94.96	119.28	130.05
11-Sep-90	0.15	0.85	0.00	76.74	82.21	76.69	79.67	74.45	75.59	93.78	94.94	119.26	130.03
12-Sep-90	0.23	0.85	0.16	76.73	82.20	76.68	79.66	74.44	75.59	93.77	94.92	119.24	130.02
13-Sep-90	0.26	0.85	0.00	76.72	82.18	76.68	79.66	74.44	75.58	93.76	94.89	119.22	130.00
14-Sep-90	0.27	0.85	0.00	76.72	82.17	76.67	79.65	74.43	75.57	93.75	94.87	119.20	129.99
15-Sep-90	0.21	0.85	0.00	76.71	82.16	76.66	79.64	74.43	75.57	93.74	94.85	119.18	129.97
16-Sep-90	0.12	0.85	0.36	76.70	82.15	76.66	79.64	74.42	75.56	93.73	94.83	119.17	129.96
17-Sep-90	0.20	0.85	0.22	76.70	82.14	76.65	79.63	74.42	75.56	93.72	94.81	119.15	129.94
18-Sep-90	0.25	0.85	0.00	76.69	82.13	76.65	79.62	74.41	75.55	93.71	94.78	119.14	129.91
19-Sep-90	0.26	0.85	0.00	76.68	82.12	76.64	79.62	74.40	75.54	93.69	94.76	119.13	129.89
20-Sep-90	0.23	0.85	0.00	76.68	81.92	76.63	79.61	74.40	75.54	93.67	94.74	119.12	129.88
21-Sep-90	0.23	0.85	0.00	76.67	82.10	76.63	79.60	74.39	75.53	93.64	94.70	119.12	129.88
22-Sep-90	0.24	0.85	0.00	76.66	82.08	76.62	79.60	74.39	75.53	93.61	94.66	119.09	129.87
23-Sep-90	0.26	0.85	0.00	76.66	82.07	76.61	79.59	74.38	75.52	93.58	94.62	119.06	129.85

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
24-Sep-90	0.31	0.85	0.00	78.65	82.08	76.61	79.58	74.38	75.51	93.55	94.58	119.03	129.84
25-Sep-90	0.23	0.85	0.00	78.64	82.05	76.60	79.58	74.37	75.51	93.52	94.54	119.01	129.82
26-Sep-90	0.21	0.85	0.00	78.63	82.04	76.60	79.57	74.37	75.50	93.49	94.50	118.98	129.81
27-Sep-90	0.17	0.85	0.00	78.63	82.03	76.59	79.56	74.36	75.49	93.48	94.48	118.95	129.79
28-Sep-90	0.22	0.85	0.00	78.62	82.02	76.58	79.56	74.36	75.49	93.47	94.48	118.92	129.78
29-Sep-90	0.13	0.85	0.68	78.61	82.01	76.58	79.55	74.35	75.48	93.46	94.45	118.91	129.76
30-Sep-90	0.08	0.85	0.14	78.61	82.00	76.57	79.55	74.34	75.48	93.46	94.45	118.90	129.75
01-Oct-90	0.10	0.78	0.00	78.60	81.99	76.56	79.54	74.34	75.47	93.45	94.45	118.89	129.72
02-Oct-90	0.21	0.78	0.00	78.59	81.97	76.56	79.53	74.33	75.46	93.44	94.44	118.88	129.72
03-Oct-90	0.24	0.78	0.00	78.59	81.96	76.55	79.53	74.33	75.46	93.43	94.44	118.87	129.72
04-Oct-90	0.20	0.78	0.00	78.58	81.95	76.54	79.52	74.32	75.45	93.43	94.43	118.86	129.72
05-Oct-90	0.16	0.78	0.00	78.57	81.94	76.54	79.51	74.32	75.45	93.42	94.43	118.85	129.72
06-Oct-90	0.15	0.78	0.08	78.57	81.93	76.53	79.51	74.31	75.44	93.42	94.43	118.84	129.72
07-Oct-90	0.18	0.78	0.00	78.58	81.92	76.53	79.50	74.31	75.43	93.42	94.42	118.87	129.72
08-Oct-90	0.22	0.78	0.00	78.55	81.91	76.52	79.49	74.30	75.43	93.42	94.42	118.90	129.72
09-Oct-90	0.21	0.78	0.00	78.55	81.90	76.51	79.49	74.30	75.42	93.41	94.42	118.93	129.71
10-Oct-90	0.24	0.78	0.58	78.54	81.89	76.51	79.48	74.29	75.41	93.41	94.41	118.97	129.71
11-Oct-90	0.18	0.78	1.68	78.53	81.87	76.50	79.47	74.28	75.41	93.43	94.41	119.00	129.71
12-Oct-90	0.05	0.78	0.74	78.52	81.86	76.49	79.47	74.28	75.40	93.44	94.41	119.03	129.71
13-Oct-90	0.13	0.78	0.00	78.52	81.85	76.49	79.46	74.27	75.40	93.46	94.40	119.06	129.71
14-Oct-90	0.18	0.78	0.00	78.51	81.84	76.48	79.45	74.27	75.39	93.48	94.40	119.04	129.71
15-Oct-90	0.19	0.78	0.00	78.50	81.83	76.48	79.45	74.26	75.38	93.50	94.39	119.01	129.71
16-Oct-90	0.19	0.78	0.00	78.50	81.82	76.47	79.44	74.26	75.38	93.51	94.39	118.99	129.71
17-Oct-90	0.18	0.78	0.00	78.49	81.81	76.48	79.43	74.25	75.37	93.53	94.39	118.97	129.71
18-Oct-90	0.18	0.78	0.00	78.48	81.80	76.46	79.43	74.25	75.36	93.53	94.38	118.94	129.71
19-Oct-90	0.09	0.78	0.12	78.48	81.79	76.45	79.42	74.24	75.36	93.52	94.38	118.92	129.71
20-Oct-90	0.18	0.78	0.00	78.47	81.77	76.44	79.42	74.24	75.35	93.55	94.37	119.06	129.71
21-Oct-90	0.13	0.78	0.00	78.46	81.76	76.44	79.41	74.23	75.35	93.58	94.35	119.04	129.71
22-Oct-90	0.28	0.78	0.00	78.46	81.75	76.43	79.40	74.22	75.34	93.61	94.34	119.01	129.71
23-Oct-90	0.05	0.78	0.31	78.45	81.74	76.43	79.40	74.22	75.33	93.64	94.33	118.99	129.71
24-Oct-90	0.15	0.78	0.00	78.44	81.73	76.42	79.39	74.21	75.33	93.67	94.31	118.97	129.71
25-Oct-90	0.11	0.78	0.00	78.44	81.72	76.41	79.38	74.21	75.32	93.64	94.30	118.95	129.70
26-Oct-90	0.09	0.78	0.00	78.43	81.71	76.41	79.38	74.20	75.32	93.62	94.29	118.92	129.70
27-Oct-90	0.11	0.78	0.00	78.42	81.70	76.40	79.37	74.20	75.31	93.59	94.27	118.90	129.70
28-Oct-90	0.12	0.78	0.00	78.41	81.69	76.39	79.36	74.19	75.30	93.57	94.26	118.88	129.70
29-Oct-90	0.11	0.78	0.00	78.41	81.67	76.39	79.36	74.19	75.30	93.54	94.25	118.86	129.70
30-Oct-90	0.12	0.78	0.00	78.40	81.66	76.38	79.35	74.18	75.29	93.52	94.23	118.84	129.70
31-Oct-90	0.11	0.78	0.00	78.39	81.65	76.38	79.34	74.18	75.28	93.48	94.22	118.82	129.70
01-Nov-90	0.10	0.71	0.00	78.39	81.64	76.37	79.34	74.17	75.28	93.48	94.20	118.80	129.70
02-Nov-90	0.15	0.71	0.00	78.38	81.63	76.36	79.33	74.16	75.27	93.47	94.19	118.78	129.69
03-Nov-90	0.15	0.71	0.00	78.37	81.61	76.35	79.32	74.16	75.26	93.48	94.18	118.76	129.69
04-Nov-90	0.13	0.71	0.00	78.36	81.60	76.34	79.31	74.15	75.25	93.44	94.16	118.76	129.68
05-Nov-90	0.12	0.71	0.00	78.35	81.58	76.34	79.30	74.14	75.25	93.43	94.15	118.76	129.67
06-Nov-90	0.15	0.71	0.00	78.34	81.57	76.33	79.29	74.13	75.24	93.42	94.14	118.76	129.67
07-Nov-90	0.13	0.71	0.00	78.35	81.56	76.34	79.30	74.14	75.25	93.41	94.12	118.76	129.66
08-Nov-90	0.12	0.71	0.00	78.34	81.57	76.33	79.29	74.13	75.24	93.41	94.11	118.76	129.65
09-Nov-90	0.12	0.71	0.00	78.39	81.65	76.37	79.34	74.17	75.28	93.40	94.10	118.76	129.65
10-Nov-90	0.12	0.71	0.77	78.39	81.65	76.37	79.34	74.17	75.28	93.40	94.08	118.76	129.64
11-Nov-90	0.14	0.71	0.00	78.20	81.34	76.20	79.16	74.02	75.11	93.40	94.07	118.73	129.64
12-Nov-90	0.13	0.71	0.00	78.17	81.29	76.17	79.13	74.00	75.08	93.40	94.06	118.71	129.63
13-Nov-90	0.11	0.71	0.00	78.14	81.24	76.14	79.10	73.97	75.06	93.39	94.04	118.68	129.62
14-Nov-90	0.13	0.71	0.00	78.05	81.10	76.06	79.02	73.90	74.98	93.39	94.03	118.65	129.62
15-Nov-90	0.15	0.71	0.00	78.09	81.16	76.10	79.06	73.93	75.01	93.38	94.02	118.63	129.61
16-Nov-90	0.12	0.71	0.00	78.15	81.26	76.15	79.11	73.98	75.07	93.36	94.00	118.60	129.60
17-Nov-90	0.10	0.71	0.00	78.22	81.37	76.22	79.18	74.04	75.13	93.35	93.99	118.59	129.60
18-Nov-90	0.16	0.71	0.00	78.16	81.28	76.16	79.12	73.99	75.07	93.33	93.98	118.58	129.59
19-Nov-90	0.13	0.71	0.00	78.13	81.23	76.13	79.09	73.97	75.05	93.32	93.98	118.58	129.58
20-Nov-90	0.09	0.71	0.00	78.09	81.16	76.10	79.06	73.93	75.01	93.30	93.95	118.55	129.58
21-Nov-90	0.09	0.71	0.00	78.08	81.15	76.09	79.05	73.93	75.00	93.29	93.94	118.54	129.57
22-Nov-90	0.10	0.71	0.00	78.10	81.18	76.11	79.07	73.94	75.02	93.28	93.92	118.53	129.56
23-Nov-90	0.10	0.71	0.00	78.16	81.28	76.18	79.12	73.99	75.07	93.28	93.91	118.51	129.56
24-Nov-90	0.05	0.71	0.14	78.10	81.18	76.11	79.07	73.94	75.02	93.27	93.90	118.50	129.55
25-Nov-90	0.10	0.71	0.00	78.04	81.08	76.05	79.01	73.89	74.97	93.27	93.88	118.48	129.55
26-Nov-90	0.10	0.71	0.00	78.02	81.05	76.03	78.99	73.88	74.95	93.26	93.87	118.47	129.54
27-Nov-90	0.08	0.71	0.00	78.02	81.31	76.03	78.99	73.88	74.95	93.26	93.85	118.45	129.53
28-Nov-90	0.06	0.71	0.16	78.03	81.07	76.04	79.00	73.89	74.96	93.25	93.84	118.43	129.53
29-Nov-90	0.07	0.71	0.00	78.01	81.03	76.03	78.98	73.87	74.94	93.23	93.83	118.41	129.52
30-Nov-90	0.19	0.71	0.00	75.91	80.87	75.93	78.89	73.79	74.85	93.22	93.81	118.40	129.51
01-Dec-90	0.13	0.83	0.00	75.87	80.81	75.90	78.85	73.78	74.81	93.20	93.80	118.38	129.51
02-Dec-90	0.08	0.83	0.00	75.89	80.84	75.92	78.87	73.77	74.83	93.18	93.79	118.37	129.50

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
03-Dec-90	0.11	0.83	0.00	75.99	81.00	78.01	78.99	73.85	74.92	93.18	93.77	118.38	129.50
04-Dec-90	0.12	0.83	0.28	76.00	81.02	78.02	78.97	73.88	74.93	93.15	93.78	118.36	129.50
05-Dec-90	0.09	0.83	0.00	75.93	80.90	75.95	78.91	73.81	74.87	93.13	93.75	118.35	129.49
06-Dec-90	0.09	0.83	0.00	76.02	81.05	78.03	78.99	73.88	74.95	93.13	93.73	118.34	129.49
07-Dec-90	0.04	0.83	0.00	78.10	81.18	78.11	79.07	73.94	75.02	93.12	93.72	118.33	129.49
08-Dec-90	0.05	0.83	1.04	78.04	81.08	78.05	79.01	73.89	74.97	93.12	93.71	118.40	129.49
09-Dec-90	0.04	0.83	0.00	75.90	80.86	75.92	78.88	73.78	74.84	93.12	93.70	118.39	129.48
10-Dec-90	0.12	0.83	0.00	75.89	80.84	75.92	78.87	73.77	74.83	93.13	93.68	118.37	129.48
11-Dec-90	0.12	0.83	0.00	75.93	80.90	75.95	78.91	73.81	74.87	93.13	93.67	118.38	129.48
12-Dec-90	0.08	0.83	0.00	75.90	80.86	75.92	78.88	73.78	74.84	93.13	93.68	118.34	129.47
13-Dec-90	0.04	0.83	0.00	75.91	80.87	75.93	78.89	73.79	74.85	93.13	93.65	118.33	129.47
14-Dec-90	0.08	0.83	0.00	75.87	80.81	75.90	78.85	73.78	74.81	93.12	93.64	118.31	129.47
15-Dec-90	0.05	0.83	0.00	75.90	80.86	75.92	78.88	73.78	74.84	93.12	93.63	118.30	129.47
16-Dec-90	0.04	0.83	0.00	75.97	80.87	75.99	78.94	73.84	74.90	93.12	93.61	118.29	129.48
17-Dec-90	0.08	0.83	0.00	78.00	81.02	78.02	78.97	73.88	74.93	93.12	93.60	118.28	129.48
18-Dec-90	0.08	0.83	0.00	78.05	81.10	78.08	79.02	73.90	74.98	93.11	93.59	118.27	129.48
19-Dec-90	0.08	0.83	0.00	75.96	80.95	75.98	78.93	73.83	74.90	93.11	93.58	118.25	129.45
20-Dec-90	0.06	0.83	0.00	75.84	80.78	75.87	78.82	73.74	74.79	93.10	93.57	118.24	129.45
21-Dec-90	0.09	0.83	0.00	75.81	80.71	75.84	78.79	73.71	74.76	93.08	93.55	118.23	129.45
22-Dec-90	0.09	0.83	0.00	75.87	80.81	75.90	78.85	73.78	74.81	93.07	93.54	118.22	129.45
23-Dec-90	0.10	0.83	0.00	75.91	80.87	75.93	78.89	73.79	74.85	93.08	93.53	118.21	129.44
24-Dec-90	0.11	0.83	0.07	75.93	80.90	75.95	78.91	73.81	74.87	93.04	93.52	118.19	129.44
25-Dec-90	0.18	0.83	0.00	75.86	80.79	75.89	78.84	73.75	74.81	93.03	93.51	118.18	129.44
26-Dec-90	0.06	0.83	0.00	75.83	80.74	75.86	78.81	73.73	74.78	93.02	93.50	118.18	129.43
27-Dec-90	0.10	0.83	0.00	75.81	80.71	75.84	78.79	73.71	74.76	93.00	93.48	118.15	129.43
28-Dec-90	0.08	0.83	0.00	75.83	80.71	75.86	78.81	73.73	74.78	92.99	93.47	118.13	129.43
29-Dec-90	0.02	0.83	0.00	75.86	80.79	75.89	78.84	73.75	74.81	92.99	93.48	118.12	129.43
30-Dec-90	0.07	0.83	0.00	75.91	80.87	75.93	78.89	73.79	74.85	92.98	93.45	118.11	129.42
31-Dec-90	0.07	0.83	0.00	75.90	80.86	75.92	78.88	73.78	74.84	92.98	93.44	118.10	129.42
01-Jan-91	0.04	0.77	0.00	75.91	80.87	75.93	78.89	73.79	74.85	92.97	93.43	118.09	129.42
02-Jan-91	0.01	0.77	0.00	75.91	80.87	75.93	78.89	73.79	74.85	92.97	93.41	118.09	129.42
03-Jan-91	0.06	0.77	0.00	75.88	80.82	75.91	78.86	73.77	74.82	92.98	93.40	118.08	129.43
04-Jan-91	0.06	0.77	0.00	75.84	80.76	75.87	78.82	73.74	74.79	92.94	93.39	118.07	129.44
05-Jan-91	0.05	0.77	0.00	75.80	80.69	75.83	78.78	73.70	74.75	92.93	93.38	118.08	129.44
06-Jan-91	0.04	0.77	0.00	75.80	80.69	75.83	78.78	73.70	74.75	92.91	93.37	118.07	129.45
07-Jan-91	0.05	0.77	0.00	75.84	80.78	75.87	78.82	73.74	74.79	92.90	93.35	118.06	129.46
08-Jan-91	0.06	0.77	0.00	75.81	80.71	75.84	78.79	73.71	74.76	92.88	93.34	118.09	129.47
09-Jan-91	0.06	0.77	0.00	75.70	80.53	75.74	78.69	73.62	74.68	92.87	93.33	118.09	129.47
10-Jan-91	0.12	0.77	0.00	75.74	80.60	75.78	78.73	73.68	74.70	92.89	93.32	118.10	129.48
11-Jan-91	0.07	0.77	0.13	75.88	80.82	75.91	78.88	73.77	74.82	92.91	93.31	118.11	129.49
12-Jan-91	0.16	0.77	2.07	76.01	81.03	78.03	78.98	73.87	74.94	92.93	93.30	118.12	129.50
13-Jan-91	0.21	0.77	0.00	75.90	80.86	75.92	78.88	73.78	74.84	92.95	93.28	118.12	129.51
14-Jan-91	0.10	0.77	0.00	75.84	80.76	75.87	78.82	73.74	74.79	92.97	93.27	118.12	129.51
15-Jan-91	0.09	0.77	0.00	75.89	80.84	75.92	78.87	73.77	74.83	92.99	93.28	118.12	129.52
16-Jan-91	0.02	0.77	0.17	75.89	80.84	75.92	78.87	73.77	74.83	92.99	93.23	118.12	129.53
17-Jan-91	0.10	0.77	0.10	75.75	80.61	75.79	78.74	73.68	74.71	92.99	93.20	118.12	129.54
18-Jan-91	0.09	0.77	0.00	75.89	80.82	75.73	78.68	73.62	74.65	92.98	93.17	118.12	129.55
19-Jan-91	0.08	0.77	0.11	75.79	80.68	75.82	78.77	73.70	74.74	92.98	93.14	118.12	129.55
20-Jan-91	0.15	0.77	1.28	75.85	80.78	75.88	78.83	73.74	74.80	92.98	93.11	118.12	129.56
21-Jan-91	0.13	0.77	0.00	75.76	80.63	75.80	78.74	73.67	74.72	92.97	93.08	118.12	129.57
22-Jan-91	0.07	0.77	0.00	75.70	80.53	75.74	78.69	73.62	74.68	92.97	93.05	118.12	129.58
23-Jan-91	0.15	0.77	0.00	75.64	80.44	75.69	78.63	73.58	74.61	92.97	93.02	118.12	129.58
24-Jan-91	0.08	0.77	0.00	75.75	80.81	75.79	78.74	73.68	74.71	92.99	93.06	118.12	129.59
25-Jan-91	0.10	0.77	1.12	75.73	80.58	75.77	78.72	73.65	74.69	93.00	93.09	118.12	129.60
26-Jan-91	0.05	0.77	0.06	75.69	80.52	75.73	78.68	73.62	74.65	93.02	93.13	118.11	129.61
27-Jan-91	0.05	0.77	0.00	75.74	80.60	75.78	78.73	73.66	74.70	93.04	93.17	118.11	129.62
28-Jan-91	0.06	0.77	0.80	75.83	80.87	75.88	78.81	73.73	74.78	93.06	93.21	118.11	129.62
29-Jan-91	0.02	0.77	0.05	75.82	80.73	75.85	78.80	73.72	74.77	93.07	93.24	118.11	129.63
30-Jan-91	0.02	0.77	0.40	75.85	80.78	75.88	78.83	73.74	74.80	93.09	93.28	118.11	129.64
31-Jan-91	0.15	0.77	0.52	75.80	80.69	75.83	78.78	73.70	74.75	93.10	93.28	118.11	129.65
01-Feb-91	0.08	0.89	0.05	75.69	80.52	75.73	78.68	73.62	74.68	93.10	93.27	118.11	129.66
02-Feb-91	0.11	0.89	0.15	75.70	80.53	75.74	78.69	73.62	74.68	93.11	93.27	118.11	129.66
03-Feb-91	0.02	0.89	0.01	75.77	80.65	75.81	78.75	73.68	74.72	93.12	93.27	118.11	129.67
04-Feb-91	0.14	0.89	0.00	75.78	80.66	75.82	78.76	73.69	74.73	93.13	93.26	118.11	129.68
05-Feb-91	0.15	0.89	0.00	75.85	80.78	75.88	78.83	73.74	74.80	93.13	93.28	118.11	129.69
06-Feb-91	0.12	0.89	0.00	75.87	80.81	75.90	78.85	73.76	74.81	93.11	93.25	118.11	129.69
07-Feb-91	0.02	0.89	0.12	75.98	80.95	75.98	78.93	73.83	74.90	93.10	93.24	118.11	129.70
08-Feb-91	0.05	0.89	0.01	75.99	81.00	78.01	78.96	73.85	74.92	93.09	93.23	118.11	129.71
09-Feb-91	0.05	0.89	0.00	75.97	80.97	75.99	78.94	73.84	74.90	93.07	93.21	118.11	129.70
10-Feb-91	0.12	0.89	0.00	76.02	81.05	78.03	78.99	73.88	74.95	93.06	93.19	118.11	129.70

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (inches)	Pan Factor	Gainesville Precip. (inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
11-Feb-91	0.16	0.69	0.00	75.95	80.94	75.97	78.92	73.82	74.89	93.04	93.18	118.10	129.69
12-Feb-91	0.13	0.69	0.00	75.84	80.78	75.87	78.82	73.74	74.79	93.02	93.14	118.10	129.68
13-Feb-91	0.12	0.69	0.00	75.92	80.89	75.94	78.90	73.80	74.86	93.01	93.12	118.10	129.67
14-Feb-91	0.15	0.69	0.31	76.08	81.15	76.09	79.05	73.93	75.00	93.00	93.10	118.10	129.67
15-Feb-91	0.19	0.69	0.01	75.83	80.90	75.86	78.91	73.81	74.87	92.98	93.08	118.10	129.66
16-Feb-91	0.19	0.69	0.00	75.58	80.34	75.83	78.57	73.53	74.55	92.98	93.08	118.10	129.65
17-Feb-91	0.10	0.69	0.00	75.61	80.39	75.86	78.90	73.55	74.58	92.94	93.04	118.09	129.65
18-Feb-91	0.08	0.69	0.00	75.69	80.52	75.73	78.68	73.62	74.65	92.93	93.02	118.09	129.64
19-Feb-91	0.16	0.69	0.00	75.69	80.52	75.73	78.68	73.62	74.65	92.92	93.00	118.09	129.63
20-Feb-91	0.17	0.69	0.00	75.68	80.50	75.72	78.67	73.61	74.64	92.91	92.98	118.09	129.62
21-Feb-91	0.19	0.69	0.00	75.68	80.50	75.72	78.67	73.61	74.64	92.90	92.95	118.09	129.62
22-Feb-91	0.12	0.69	0.00	75.76	80.63	75.80	78.74	73.67	74.72	92.88	92.93	118.09	129.61
23-Feb-91	0.11	0.69	0.00	75.81	80.71	75.84	78.79	73.71	74.76	92.87	92.90	118.08	129.60
24-Feb-91	0.18	0.69	0.00	75.83	80.74	75.86	78.81	73.73	74.78	92.85	92.88	118.08	129.60
25-Feb-91	0.10	0.69	0.00	75.84	80.7	75.87	78.82	73.74	74.79	92.84	92.85	118.08	129.59
26-Feb-91	0.07	0.69	0.00	75.80	80.51	75.83	78.78	73.70	74.75	92.82	92.83	118.08	129.58
27-Feb-91	0.20	0.69	0.00	75.66	80.37	75.71	78.65	73.59	74.63	92.81	92.80	118.08	129.57
28-Feb-91	0.13	0.69	0.00	75.65	80.36	75.70	78.64	73.58	74.62	92.80	92.85	118.08	129.57
01-Mar-91	0.04	0.73	0.00	75.76	80.47	75.80	78.74	73.67	74.72	92.80	92.89	118.07	129.56
02-Mar-91	0.11	0.73	0.00	75.90	80.60	75.92	78.88	73.78	74.84	92.85	92.94	118.07	129.58
03-Mar-91	0.01	0.73	5.15	76.23	80.91	76.23	79.19	74.05	75.14	92.99	92.98	118.07	129.58
04-Mar-91	0.22	0.73	0.00	76.12	80.81	76.13	79.08	73.96	75.04	93.04	93.03	118.07	129.58
05-Mar-91	0.06	0.73	0.00	76.05	80.74	76.06	79.02	73.90	74.98	93.08	93.07	118.07	129.57
06-Mar-91	0.15	0.73	0.00	76.09	80.78	76.10	79.06	73.93	75.01	93.13	93.12	118.07	129.57
07-Mar-91	0.18	0.73	0.00	76.14	80.83	76.14	79.10	73.97	75.06	93.11	93.10	118.08	129.57
08-Mar-91	0.16	0.73	0.00	76.19	80.88	76.19	79.15	74.01	75.10	93.10	93.09	118.08	129.57
09-Mar-91	0.12	0.73	0.27	76.26	80.94	76.25	79.22	74.07	75.16	93.08	93.07	118.08	129.57
10-Mar-91	0.10	0.73	0.00	76.24	80.92	76.24	79.20	74.05	75.15	93.06	93.05	118.08	129.57
11-Mar-91	0.21	0.73	0.00	76.22	80.91	76.22	79.18	74.04	75.13	93.04	93.03	118.07	129.57
12-Mar-91	0.14	0.73	0.00	76.28	80.96	76.27	79.24	74.09	75.18	93.03	93.02	118.07	129.58
13-Mar-91	0.15	0.73	0.00	76.39	81.07	76.37	79.34	74.17	75.28	93.01	93.00	118.07	129.58
14-Mar-91	0.10	0.73	0.04	76.38	81.06	76.38	79.33	74.18	75.27	93.05	93.03	118.07	129.58
15-Mar-91	0.26	0.73	0.09	76.24	80.92	76.24	79.20	74.05	75.15	93.10	93.07	118.08	129.58
16-Mar-91	0.12	0.73	0.35	76.21	80.90	76.21	79.17	74.03	75.12	93.14	93.10	118.08	129.58
17-Mar-91	0.14	0.73	0.63	76.45	81.12	76.43	79.40	74.22	75.34	93.18	93.14	118.08	129.58
18-Mar-91	0.01	0.73	2.80	76.71	81.37	76.66	79.64	74.43	75.57	93.22	93.17	118.08	129.58
19-Mar-91	0.12	0.73	0.00	76.64	81.31	76.60	79.58	74.37	75.51	93.27	93.21	118.08	129.59
20-Mar-91	0.18	0.73	0.00	76.60	81.27	76.56	79.54	74.34	75.47	93.31	93.24	118.09	129.59
21-Mar-91	0.17	0.73	0.00	76.66	81.32	76.62	79.60	74.39	75.52	93.30	93.22	118.09	129.59
22-Mar-91	0.20	0.73	0.00	76.70	81.36	76.65	79.63	74.42	75.56	93.29	93.20	118.09	129.59
23-Mar-91	0.18	0.73	0.00	76.66	81.34	76.64	79.61	74.40	75.54	93.28	93.18	118.09	129.59
24-Mar-91	0.17	0.73	0.00	76.76	81.42	76.71	79.69	74.47	75.61	93.26	93.18	118.09	129.59
25-Mar-91	0.16	0.73	0.00	76.81	81.42	76.76	79.74	74.51	75.66	93.25	93.14	118.09	129.60
26-Mar-91	0.13	0.73	0.00	76.84	81.50	76.78	79.77	74.53	75.69	93.24	93.12	118.09	129.60
27-Mar-91	0.19	0.73	0.00	76.88	81.53	76.82	79.80	74.56	75.72	93.23	93.10	118.10	129.60
28-Mar-91	0.23	0.73	0.00	76.98	81.63	76.91	79.90	74.64	75.81	93.22	93.08	118.10	129.60
29-Mar-91	0.18	0.73	0.00	77.09	81.73	77.01	80.00	74.73	75.91	93.20	93.07	118.10	129.60
30-Mar-91	0.28	0.73	0.86	77.16	81.80	77.07	80.07	74.78	75.97	93.19	93.05	118.10	129.60
31-Mar-91	0.09	0.73	0.00	77.14	81.78	77.06	80.05	74.77	75.95	93.17	93.03	118.09	129.60
01-Apr-91	0.14	0.84	0.00	77.06	81.71	76.98	79.97	74.71	75.88	93.18	93.01	118.08	129.61
02-Apr-91	0.20	0.84	0.00	77.04	81.69	76.97	79.95	74.69	75.86	93.14	93.00	118.07	129.61
03-Apr-91	0.23	0.84	0.00	77.00	81.65	76.93	79.92	74.66	75.83	93.13	92.98	118.07	129.61
04-Apr-91	0.20	0.84	0.00	77.01	81.66	76.94	79.93	74.66	75.84	93.14	92.98	118.08	129.61
05-Apr-91	0.18	0.84	0.01	77.06	81.71	76.98	79.97	74.78	75.92	93.14	92.97	118.08	129.61
06-Apr-91	0.12	0.84	0.00	77.09	81.73	77.01	80.00	74.91	76.00	93.15	92.97	118.04	129.57
07-Apr-91	0.18	0.84	0.00	77.20	81.84	77.11	80.11	74.99	76.10	93.15	92.97	118.05	129.58
08-Apr-91	0.18	0.84	0.01	77.17	81.81	77.08	80.08	75.02	76.10	93.16	92.97	118.06	129.58
09-Apr-91	0.19	0.84	0.47	77.28	81.91	77.18	80.18	75.07	76.18	93.16	92.98	118.07	129.61
10-Apr-91	0.13	0.84	0.53	77.35	81.98	77.25	80.25	75.14	76.25	93.17	92.98	118.08	129.64
11-Apr-91	0.17	0.84	0.10	77.31	81.94	77.21	80.21	75.13	76.22	93.15	92.94	118.09	129.65
12-Apr-91	0.21	0.84	0.00	77.26	81.90	77.17	80.18	75.08	76.18	93.13	92.91	118.10	129.65
13-Apr-91	0.23	0.84	0.00	77.27	81.91	77.18	80.17	75.06	76.17	93.11	92.87	118.12	129.65
14-Apr-91	0.20	0.84	0.00	77.34	81.97	77.24	80.24	75.13	76.24	93.09	92.85	118.15	129.64
15-Apr-91	0.25	0.84	0.01	77.31	81.94	77.21	80.21	75.14	76.23	93.07	92.83	118.17	129.62
16-Apr-91	0.17	0.84	0.00	77.29	81.92	77.19	80.19	75.1	76.20	93.05	92.80	118.19	129.62
17-Apr-91	0.20	0.84	0.00	77.36	81.99	77.26	80.26	75.11	76.24	93.03	92.78	118.21	129.67
18-Apr-91	0.10	0.84	0.84	77.53	82.15	77.41	80.42	75.2	76.37	93.25	92.99	118.24	129.75
19-Apr-91	0.15	0.84	0.00	77.55	82.17	77.43	80.44	75.21	76.38	93.25	93.04	118.26	129.75
20-Apr-91	0.11	0.84	1.30	77.56	82.18	77.44	80.45	75.23	76.40	93.25	93.08	118.28	129.87
21-Apr-91	0.05	0.84	1.48	77.60	82.22	77.48	80.48	75.23	76.42	93.27	93.10	118.30	129.88

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0118 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
22-Apr-91	0.23	0.84	0.00	77.55	82.17	77.43	80.44	75.17	76.36	93.29	93.12	118.33	129.87
23-Apr-91	0.19	0.84	0.00	77.58	81.92	77.48	80.47	75.19	76.39	93.31	93.14	118.35	130.01
24-Apr-91	0.02	0.84	0.26	77.55	82.17	77.43	80.44	75.18	76.36	93.33	93.15	118.37	130.1
25-Apr-91	0.20	0.84	0.00	77.50	82.12	77.39	80.39	75.09	76.30	93.35	93.17	118.39	130.14
26-Apr-91	0.10	0.84	1.11	77.59	82.21	77.47	80.47	75.13	76.36	93.37	93.19	118.42	130.19
27-Apr-91	0.07	0.84	0.03	77.67	82.29	77.54	80.55	75.28	76.47	93.38	93.19	118.44	130.2
28-Apr-91	0.22	0.84	0.00	77.71	82.32	77.58	80.59	75.37	76.54	93.35	93.20	118.44	130.21
29-Apr-91	0.25	0.84	0.00	77.74	82.35	77.60	80.62	75.36	76.55	93.35	93.20	118.45	130.22
30-Apr-91	0.24	0.84	0.00	77.68	82.30	77.55	80.58	75.27	76.48	93.34	93.20	118.45	130.24
01-May-91	0.24	0.82	0.00	77.69	82.31	77.56	80.57	75.28	76.48	93.33	93.21	118.45	130.24
02-May-91	0.24	0.82	0.36	77.76	82.37	77.62	80.64	75.29	76.53	93.32	93.21	118.45	130.3
03-May-91	0.22	0.82	0.00	77.79	82.40	77.65	80.66	75.31	76.55	93.30	93.19	118.46	130.3
04-May-91	0.22	0.82	0.00	77.74	82.35	77.60	80.62	75.31	76.53	93.29	93.17	118.46	130.3
05-May-91	0.18	0.82	0.00	77.75	82.36	77.61	80.63	75.29	76.52	93.27	93.15	118.47	130.3
06-May-91	0.24	0.82	0.00	77.74	82.35	77.60	80.62	75.28	76.51	93.28	93.14	118.48	130.3
07-May-91	0.14	0.82	0.11	77.78	82.37	77.62	80.64	75.22	76.49	93.24	93.12	118.48	130.31
08-May-91	0.19	0.82	0.08	77.75	82.36	77.61	80.63	75.23	76.49	93.22	93.10	118.49	130.31
09-May-91	0.28	0.82	0.00	77.70	82.31	77.57	80.58	75.23	76.47	93.21	93.08	118.50	130.3
10-May-91	0.23	0.82	0.00	77.67	82.29	77.54	80.55	75.17	76.42	93.19	93.06	118.51	130.3
11-May-91	0.23	0.82	0.02	77.76	82.37	77.62	80.64	75.17	76.47	93.19	93.06	118.51	130.31
12-May-91	0.18	0.82	0.40	77.90	82.51	77.75	80.77	75.25	76.58	93.19	93.08	118.52	130.34
13-May-91	0.20	0.82	0.00	77.92	82.52	77.77	80.79	75.3	76.61	93.19	93.06	118.53	130.35
14-May-91	0.22	0.82	0.30	77.94	82.54	77.79	80.81	75.29	76.62	93.19	93.06	118.54	130.4
15-May-91	0.27	0.82	0.00	77.84	82.45	77.70	80.71	75.24	76.54	93.18	93.06	118.55	130.4
16-May-91	0.28	0.82	0.00	77.80	82.41	77.68	80.67	75.19	76.50	93.18	93.06	118.55	130.41
17-May-91	0.26	0.82	0.50	77.89	82.50	77.74	80.78	75.19	76.54	93.18	93.06	118.56	130.45
18-May-91	0.21	0.82	0.00	77.89	82.50	77.74	80.78	75.22	76.58	93.18	93.06	118.57	130.45
19-May-91	0.29	0.82	0.00	77.89	82.50	77.74	80.78	75.24	76.57	93.17	93.05	118.58	130.45
20-May-91	0.21	0.82	0.75	77.90	82.51	77.75	80.77	75.28	76.58	93.18	93.04	118.58	130.44
21-May-91	0.21	0.82	0.00	77.87	82.48	77.72	80.74	75.21	76.54	93.15	93.03	118.59	130.42
22-May-91	0.19	0.82	0.00	77.82	82.43	77.68	80.69	75.17	76.50	93.14	93.02	118.60	130.42
23-May-91	0.19	0.82	0.01	77.81	82.42	77.67	80.68	75.12	76.47	93.13	93.01	118.61	130.4
24-May-91	0.05	0.82	0.20	77.90	82.51	77.75	80.77	75.13	76.52	93.12	93.00	118.62	130.51
25-May-91	0.09	0.82	0.08	77.95	82.55	77.80	80.81	75.18	76.57	93.11	92.99	118.62	130.53
26-May-91	0.28	0.82	0.00	77.96	82.56	77.81	80.82	75.22	76.59	93.10	92.99	118.63	130.53
27-May-91	0.09	0.82	0.25	77.97	82.57	77.81	80.83	75.2	76.59	93.09	92.98	118.64	130.57
28-May-91	0.24	0.82	0.70	77.91	82.51	77.76	80.78	75.15	76.53	93.07	92.97	118.65	130.56
29-May-91	0.21	0.82	0.00	77.88	82.49	77.73	80.75	75.12	76.50	93.08	92.97	118.66	130.56
30-May-91	0.26	0.82	0.31	77.88	82.56	77.73	80.75	75.14	76.51	93.05	92.96	118.66	130.56
31-May-91	0.15	0.82	0.03	77.87	82.48	77.72	80.74	75.14	76.51	93.07	92.92	118.67	130.57
01-Jun-91	0.09	0.85	1.67	77.96	82.56	77.81	80.82	75.18	76.57	93.10	92.98	118.68	130.58
02-Jun-91	0.24	0.85	0.00	78.01	82.61	77.85	80.87	75.27	76.64	93.11	92.91	118.69	130.59
03-Jun-91	0.28	0.85	0.00	77.98	82.58	77.82	80.84	75.3	76.64	93.12	92.94	118.69	130.58
04-Jun-91	0.20	0.85	0.00	78.03	82.63	77.87	80.89	75.3	76.67	93.13	92.97	118.70	130.58
05-Jun-91	0.29	0.85	1.03	78.09	82.68	77.92	80.94	75.34	76.71	93.13	93.00	118.71	130.74
06-Jun-91	0.17	0.85	0.42	78.14	82.73	77.97	80.99	75.33	76.73	93.14	93.02	118.72	130.77
07-Jun-91	0.12	0.85	0.08	78.19	82.78	78.02	81.04	75.33	76.78	93.16	93.04	118.73	130.79
08-Jun-91	0.04	0.85	0.09	78.25	82.83	78.07	81.09	75.41	76.83	93.17	93.06	118.73	130.81
09-Jun-91	0.22	0.85	0.00	78.30	82.88	78.11	81.14	75.52	76.91	93.19	93.08	118.74	130.8
10-Jun-91	0.30	0.85	0.00	78.35	82.93	78.18	81.19	75.62	76.99	93.20	93.10	118.75	130.8
11-Jun-91	0.25	0.85	0.00	78.40	82.99	78.21	81.24	75.68	77.03	93.22	93.12	118.76	130.79
12-Jun-91	0.22	0.85	0.00	78.46	83.04	78.26	81.29	75.72	77.09	93.23	93.14	118.76	130.8
13-Jun-91	0.29	0.85	0.00	78.51	83.09	78.31	81.34	75.78	77.14	93.22	93.13	118.77	130.79
14-Jun-91	0.22	0.85	0.00	78.50	83.08	78.30	81.33	75.8	77.15	93.21	93.12	118.78	130.78
15-Jun-91	0.22	0.85	0.00	78.60	83.17	78.39	81.43	75.9	77.25	93.20	93.11	118.82	130.78
16-Jun-91	0.25	0.85	0.00	78.71	83.28	78.49	81.53	76.02	77.37	93.19	93.10	118.87	130.78
17-Jun-91	0.23	0.85	0.00	78.74	83.31	78.52	81.56	76.1	77.42	93.19	93.10	118.91	130.78
18-Jun-91	0.15	0.85	1.34	78.78	83.34	78.55	81.60	76.12	77.45	93.18	93.09	118.96	130.8
19-Jun-91	0.12	0.85	0.07	78.75	83.31	78.53	81.57	76.11	77.43	93.17	93.08	119.00	130.8
20-Jun-91	0.12	0.85	0.20	78.75	83.31	78.53	81.57	76.11	77.43	93.16	93.08	119.05	130.8
21-Jun-91	0.26	0.85	0.00	78.77	83.33	78.54	81.59	76.17	77.47	93.15	93.08	119.09	130.84
22-Jun-91	0.27	0.85	0.00	78.76	83.32	78.54	81.58	76.21	77.49	93.14	93.08	119.14	130.83
23-Jun-91	0.27	0.85	0.00	78.78	83.34	78.55	81.60	76.23	77.51	93.14	93.08	119.18	130.82
24-Jun-91	0.26	0.85	0.00	78.73	83.30	78.51	81.55	76.19	77.46	93.13	93.06	119.23	130.83
25-Jun-91	0.23	0.85	0.32	78.80	83.36	78.57	81.62	76.17	77.49	93.12	93.08	119.27	131.01
26-Jun-91	0.24	0.85	0.06	78.86	83.41	78.63	81.67	76.18	77.52	93.11	93.08	119.32	131.03
27-Jun-91	0.18	0.85	1.42	78.84	83.40	78.61	81.66	76.15	77.50	93.10	93.07	119.38	131.05
28-Jun-91	0.22	0.85	0.02	78.79	83.35	78.56	81.61	76.12	77.48	93.09	93.05	119.41	131.05
29-Jun-91	0.26	0.85	0.00	78.84	83.40	78.61	81.66	76.16	77.50	93.08	93.04	119.45	131.05
30-Jun-91	0.13	0.85	0.13	78.93	83.49	78.69	81.74	76.21	77.57	93.06	93.02	119.50	131.07

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0118 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
01-Jul-91	0.20	0.91	0.00	78.95	83.51	78.72	81.77	76.25	77.60	93.05	93.01	119.54	131.08
02-Jul-91	0.19	0.91	0.14	78.93	83.49	78.71	81.76	76.25	77.59	93.04	92.99	119.59	131.08
03-Jul-91	0.23	0.91	0.00	78.88	83.44	78.69	81.74	76.24	77.56	93.03	92.98	119.63	131.05
04-Jul-91	0.23	0.91	0.06	78.89	83.45	78.76	81.81	76.25	77.57	93.02	92.97	119.68	131.05
05-Jul-91	0.30	0.91	0.17	78.85	83.41	78.72	81.77	76.26	77.56	93.01	92.98	119.72	131.06
06-Jul-91	0.16	0.91	0.04	78.87	83.43	78.7	81.75	76.23	77.55	93.00	92.95	119.77	131.06
07-Jul-91	0.16	0.91	0.00	78.91	83.47	78.69	81.74	76.22	77.57	93.00	92.95	119.81	131.1
08-Jul-91	0.16	0.91	0.00	78.92	83.48	78.67	81.72	76.24	77.56	92.99	92.94	119.86	131.09
09-Jul-91	0.21	0.91	0.26	78.99	83.54	78.75	81.80	76.27	77.63	92.98	92.93	119.90	131.13
10-Jul-91	0.13	0.91	0.47	79.00	83.55	78.8	81.85	76.26	77.63	92.97	92.92	119.95	131.14
11-Jul-91	0.17	0.91	1.09	79.00	83.55	78.69	81.74	76.25	77.63	92.97	92.93	119.99	131.15
12-Jul-91	0.10	0.91	0.10	79.01	83.56	78.69	81.74	76.24	77.63	92.96	92.94	120.03	131.16
13-Jul-91	0.07	0.91	0.00	79.01	83.56	78.69	81.74	76.26	77.64	92.96	92.95	120.06	131.17
14-Jul-91	0.12	0.91	0.00	79.00	83.55	78.69	81.74	76.27	77.64	92.96	92.95	120.12	131.16
15-Jul-91	0.13	0.91	0.02	78.96	83.51	78.69	81.74	76.24	77.60	92.96	92.96	120.17	131.19
16-Jul-91	0.23	0.91	0.02	78.99	83.54	78.69	81.74	76.23	77.61	92.95	92.97	120.21	131.25
17-Jul-91	0.22	0.91	0.00	78.96	83.53	78.72	81.77	76.24	77.61	92.95	92.96	120.26	131.24
18-Jul-91	0.22	0.91	0.00	79.00	83.55	78.75	81.80	76.25	77.63	92.97	92.99	120.30	131.23
19-Jul-91	0.13	0.91	0.01	79.01	83.56	78.76	81.81	76.24	77.63	93.00	93.01	120.35	131.23
20-Jul-91	0.31	0.91	0.94	79.01	83.56	78.76	81.83	76.25	77.63	93.02	93.02	120.39	131.25
21-Jul-91	0.18	0.91	0.00	79.01	83.56	78.79	81.84	76.27	77.64	93.04	93.04	120.44	131.25
22-Jul-91	0.23	0.91	0.00	79.04	83.59	78.82	81.87	76.32	77.66	93.06	93.05	120.48	131.25
23-Jul-91	0.25	0.91	0.00	79.14	83.69	78.9	81.96	76.41	77.76	93.09	93.07	120.53	131.34
24-Jul-91	0.18	0.91	0.00	79.24	83.78	78.95	82.01	76.52	77.86	93.11	93.08	120.57	131.44
25-Jul-91	0.17	0.91	0.53	79.20	83.74	78.96	82.02	76.55	77.86	93.12	93.10	120.62	131.45
26-Jul-91	0.18	0.91	0.00	79.26	83.80	79.01	82.07	76.53	77.90	93.13	93.12	120.66	131.54
27-Jul-91	0.14	0.91	0.76	79.29	83.83	79.06	82.12	76.57	77.93	93.14	93.14	120.71	131.58
28-Jul-91	0.13	0.91	1.18	79.32	83.86	79.1	82.16	76.62	77.97	93.15	93.16	120.75	131.6
29-Jul-91	0.14	0.91	0.35	79.33	83.87	79.13	82.20	76.66	78.00	93.17	93.20	120.80	131.61
30-Jul-91	0.12	0.91	0.42	79.38	83.91	79.14	82.21	76.68	78.03	93.20	93.24	120.84	131.61
31-Jul-91	0.14	0.91	0.77	79.49	83.94	79.21	82.26	76.73	78.11	93.22	93.26	120.89	131.69
01-Aug-91	0.09	0.91	1.48	79.57	84.10	79.27	82.34	76.79	78.18	93.25	93.32	120.93	131.72
02-Aug-91	0.05	0.91	0.13	79.55	84.08	79.28	82.35	76.8	78.18	93.27	93.36	120.96	131.69
03-Aug-91	0.17	0.91	0.06	79.60	84.12	79.33	82.40	76.82	78.21	93.30	93.40	121.02	131.67
04-Aug-91	0.14	0.91	0.02	79.69	84.21	79.41	82.49	76.9	78.30	93.32	93.44	121.07	131.7
05-Aug-91	0.22	0.91	0.06	79.75	84.27	79.44	82.52	76.96	78.36	93.35	93.48	121.11	131.77
06-Aug-91	0.15	0.91	0.07	79.69	84.21	79.4	82.48	76.93	78.31	93.37	93.52	121.16	131.76
07-Aug-91	0.24	0.91	0.00	79.71	84.23	79.4	82.48	76.9	78.31	93.38	93.54	121.20	131.75
08-Aug-91	0.25	0.91	0.00	79.73	84.25	79.45	82.53	76.94	78.34	93.36	93.53	121.29	131.73
09-Aug-91	0.21	0.91	0.07	79.80	84.31	79.5	82.58	77.01	78.41	93.34	93.52	121.38	131.72
10-Aug-91	0.13	0.91	0.00	79.78	84.30	79.48	82.56	77.03	78.41	93.33	93.51	121.47	131.71
11-Aug-91	0.20	0.91	0.16	79.73	84.25	79.45	82.53	77.01	78.37	93.31	93.50	121.56	131.7
12-Aug-91	0.25	0.91	0.00	79.74	84.26	79.44	82.52	77	78.37	93.29	93.49	121.64	131.68
13-Aug-91	0.10	0.91	0.05	79.75	84.27	79.45	82.53	77.01	78.38	93.27	93.48	121.73	131.67
14-Aug-91	0.24	0.91	0.00	79.73	84.25	79.46	82.54	77	78.37	93.26	93.48	121.82	131.65
15-Aug-91	0.29	0.91	0.00	79.72	84.24	79.44	82.52	76.99	78.36	93.25	93.49	121.91	131.65
16-Aug-91	0.18	0.91	0.61	79.76	84.28	79.45	82.53	76.96	78.36	93.24	93.49	121.99	131.64
17-Aug-91	0.20	0.91	0.00	79.77	84.29	79.5	82.56	76.97	78.37	93.23	93.49	122.07	131.63
18-Aug-91	0.25	0.91	0.00	79.77	84.29	79.5	82.56	77.01	78.39	93.22	93.49	122.15	131.6
19-Aug-91	0.17	0.91	0.00	79.71	84.23	79.43	82.51	76.96	78.34	93.21	93.50	122.22	131.58
20-Aug-91	0.16	0.91	0.14	79.73	84.25	79.4	82.48	76.89	78.31	93.20	93.50	122.30	131.6
21-Aug-91	0.14	0.91	0.01	79.65	84.17	79.34	82.41	76.8	78.23	93.19	93.50	122.38	131.58
22-Aug-91	0.23	0.91	0.00	79.62	84.14	79.33	82.40	76.77	78.20	93.21	93.53	122.46	131.57
23-Aug-91	0.20	0.91	0.00	79.61	84.13	79.31	82.38	76.74	78.16	93.24	93.55	122.54	131.58
24-Aug-91	0.17	0.91	0.54	79.68	84.20	79.36	82.43	76.73	78.21	93.26	93.58	122.62	131.65
25-Aug-91	0.10	0.91	0.13	79.72	84.24	79.43	82.47	76.77	78.25	93.28	93.60	122.70	131.66
26-Aug-91	0.13	0.91	0.00	79.75	84.27	79.44	82.52	76.77	78.26	93.30	93.63	122.77	131.65
27-Aug-91	0.05	0.91	2.74	79.68	84.20	79.42	82.52	76.75	78.22	93.33	93.65	122.85	131.64
28-Aug-91	0.15	0.91	0.67	79.67	84.19	79.37	82.5	76.78	78.22	93.35	93.68	122.93	131.64
29-Aug-91	0.21	0.91	0.84	79.61	84.32	79.32	82.45	76.73	78.17	93.34	93.68	123.01	131.64
30-Aug-91	0.14	0.91	0.00	79.67	84.19	79.36	82.45	76.75	78.21	93.33	93.69	123.09	131.62
31-Aug-91	0.13	0.91	0.02	79.66	84.18	79.41	82.5	76.78	78.22	93.32	93.69	123.17	131.61
01-Sep-91	0.22	0.85	0.00	79.63	84.15	79.38	82.48	76.77	78.20	93.30	93.69	123.25	131.59
02-Sep-91	0.18	0.85	0.00	79.62	84.14	79.36	82.45	76.75	78.19	93.29	93.69	123.32	131.58
03-Sep-91	0.19	0.85	0.00	79.71	84.23	79.36	82.44	76.76	78.25	93.28	93.70	123.40	131.6
04-Sep-91	0.22	0.85	0.45	79.74	84.26	79.41	82.48	76.82	78.26	93.27	93.70	123.46	131.62
05-Sep-91	0.18	0.85	0.00	79.69	84.21	79.36	82.45	76.81	78.25	93.25	93.69	123.56	131.61
06-Sep-91	0.2	0.85	0.00	79.65	84.17	79.33	82.41	76.77	78.21	93.23	93.68	123.59	131.59
07-Sep-91	0.21	0.85	0.00	79.61	84.13	79.32	82.39	76.75	78.18	93.21	93.67	123.61	131.58
08-Sep-91	0.2	0.85	0.01	79.66	84.18	79.35	82.4	76.77	78.22	93.20	93.66	123.64	131.57

DAILY WATER BUDGET DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES:

Date	Gainesville Evap. (Inches)	Pan Factor	Gainesville Precip. (Inches)	Brooklyn Floridan Well C-0120 (ft MSL)	Brooklyn Intermed. Well C-0116 (ft MSL)	Geneva Floridan Well C-0436 (ft MSL)	Geneva Intermed. Well C-0437 (ft MSL)	Sand Hill Floridan Well C-0439 (ft MSL)	Magnolia Floridan (calculated) (ft MSL)	Geneva Elevation (ft MSL)	Brooklyn Elevation (ft MSL)	Magnolia Elevation (ft MSL)	Sand Hill Elevation (ft MSL)
09-Sep-91	0.22	0.85	0.00	79.65	84.17	79.36	82.42	76.79	78.22	93.18	93.65	123.68	131.54
10-Sep-91	0.2	0.85	0.00	79.61	84.13	79.31	82.39	76.75	78.18	93.16	93.64	123.69	131.52
11-Sep-91	0.2	0.85	0.00	79.61	84.13	79.31	82.38	76.73	78.17	93.14	93.63	123.71	131.51
12-Sep-91	0.27	0.85	0.00	79.59	84.11	79.3	82.38	76.74	78.17	93.12	93.62	123.74	131.5
13-Sep-91	0.2	0.85	0.00	79.53	84.06	79.28	82.36	76.72	78.13	93.10	93.61	123.77	131.48
14-Sep-91	0.22	0.85	0.00	79.46	83.99	79.25	82.33	76.69	78.08	93.08	93.60	123.79	131.47
15-Sep-91	0.18	0.85	0.01	79.46	83.99	79.21	82.29	76.64	78.05	93.07	93.59	123.82	131.46
16-Sep-91	0.19	0.85	0.00	79.46	83.99	79.18	82.26	76.59	78.03	93.05	93.58	123.84	131.45
17-Sep-91	0.15	0.85	0.00	79.43	83.96	79.14	82.22	76.57	78.00	93.03	93.57	123.87	131.44
18-Sep-91		0.85	0.00	79.41	83.94	79.11	82.19	76.54	77.98	93.01	93.56	123.89	131.43
19-Sep-91	0.18	0.85	0.00	79.34	83.88	79.07	82.15	76.49	77.92	92.99	93.53	123.92	131.4
20-Sep-91				79.31	83.85	79.06	82.13	76.47	77.89	92.98	93.51	123.95	131.39
21-Sep-91				79.29	83.83	79.01	82.09	76.41	77.85	92.96	93.48	123.97	131.38
22-Sep-91				79.28	83.82	78.96	82.06	76.37	77.83	92.94	93.46	124.00	131.34
23-Sep-91				79.23	83.77	78.97	82.04	76.34	77.79	92.92	93.43	124.02	131.32
24-Sep-91				79.29	83.83	79	82.05	76.39	77.84	92.91	93.41	124.05	131.31
25-Sep-91				79.40	83.93	79.09	82.1	76.48	77.94	92.89	93.38	124.07	131.32
26-Sep-91				79.42	83.95	79.07	82.11	76.49	77.96	92.89	93.38	124.10	131.32
27-Sep-91				79.32	83.86	79	82.09	76.39	77.86	92.90	93.39	124.12	131.31
28-Sep-91				79.22	83.76	78.93	82.01	76.29	77.76	92.90	93.39	124.13	131.28
29-Sep-91				79.20	83.74	78.93	81.97	76.23	77.72	92.91	93.40	124.15	131.28
30-Sep-91				79.34	83.88	79	82	76.26	77.80	92.91	93.40	124.16	131.32
01-Oct-91				79.47	84.00	79.1	82.11	76.38	77.93	92.92	93.40	124.18	131.33
02-Oct-91				79.59	84.11	79.2	82.23	76.5	78.05	92.92	93.40	124.20	131.36
03-Oct-91				79.49	84.02	79.14	82.22	76.47	77.98	92.93	93.39	124.21	131.41
04-Oct-91				79.53	84.06	79.2	82.25	76.48	78.01	92.94	93.39	124.23	131.41
05-Oct-91				79.55	84.08	79.25	82.28	76.54	78.05	92.95	93.39	124.24	131.4
06-Oct-91				79.61	84.13	79.31	82.33	76.61	78.11	92.95	93.39	124.26	131.41
07-Oct-91				79.58	84.11	79.23	82.31	76.58	78.08	92.96	93.39	124.28	131.4
08-Oct-91				79.48	84.01	79.14	82.25	76.49	77.99	92.97	93.39	124.29	131.35
09-Oct-91				79.48	84.01	79.14	82.22	76.47	77.98	92.96	93.38	124.31	131.32
10-Oct-91				79.57	84.10	79.21	82.25	76.54	78.06	92.98	93.38	124.32	131.31
11-Oct-91				79.55	84.08	79.22	82.27	76.6	78.08	92.99	93.38	124.34	131.31
12-Oct-91				79.53	84.06	79.18	82.26	76.59	78.06				131.3
13-Oct-91				79.47	84.00	79.11	82.22	76.53	78.00				131.29
14-Oct-91				79.43	83.96	79.09	82.17	76.47	77.95				131.27

D2. Sand Hill Lake Daily Water Budget

SAND HILL LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 5555

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jan-89	0.06	0.77	0.00	79.53	131.78	52.25	1293.7	19783.3	NA	4.98				NA	NA
02-Jan-89	0.08	0.77	0.00	79.51	131.78	52.27	1293.7	19783.3	0.00	6.64					
03-Jan-89	0.08	0.77	0.00	79.54	131.78	52.24	1293.7	19783.3	0.00	6.64					
04-Jan-89	0.16	0.77	0.00	79.40	131.78	52.38	1293.7	19782.4	-0.89	13.28					
05-Jan-89	0.15	0.77	0.00	79.32	131.78	52.46	1293.7	19781.5	-0.89	12.45					
06-Jan-89	0.10	0.77	0.00	79.34	131.78	52.44	1293.6	19780.6	-0.89	8.30					
07-Jan-89	0.10	0.77	0.00	79.31	131.78	52.47	1293.6	19779.7	-0.89	8.30					
08-Jan-89	0.10	0.77	0.00	79.32	131.78	52.45	1293.6	19778.8	-0.89	8.30					
09-Jan-89	0.09	0.77	0.00	79.32	131.78	52.46	1293.6	19777.9	-0.89	7.47					
10-Jan-89	0.07	0.77	0.00	79.26	131.78	52.52	1293.5	19777.0	-0.89	5.81					
11-Jan-89	0.03	0.77	0.00	79.24	131.77	52.54	1293.5	19776.1	-0.89	2.49					
12-Jan-89	0.02	0.77	0.00	79.24	131.77	52.54	1293.5	19775.2	-0.89	1.66					
13-Jan-89	0.05	0.77	0.00	79.25	131.77	52.52	1293.5	19774.4	-0.89	4.15					
14-Jan-89	0.14	0.77	0.00	79.20	131.77	52.58	1293.5	19773.5	-0.89	11.62					
15-Jan-89	0.09	0.77	0.00	79.22	131.77	52.55	1293.4	19772.6	-0.89	7.47					
16-Jan-89	0.11	0.77	0.00	79.20	131.77	52.57	1293.4	19771.7	-0.89	9.13					
17-Jan-89	0.19	0.77	0.00	79.14	131.77	52.63	1293.4	19770.8	-0.89	15.77					
18-Jan-89	0.09	0.77	0.00	79.16	131.77	52.61	1293.4	19769.9	-0.89	7.47					
19-Jan-89	0.10	0.77	0.00	79.16	131.77	52.61	1293.4	19769.0	-0.89	8.30					
20-Jan-89	0.10	0.77	0.00	79.20	131.77	52.57	1293.3	19768.1	-0.89	8.30					
21-Jan-89	0.10	0.77	0.18	79.18	131.77	52.59	1293.3	19767.2	-0.89	8.30	19.40	0.83			
22-Jan-89	0.07	0.77	0.96	79.32	131.77	52.45	1293.3	19766.3	-0.89	5.81	103.46	4.44			
23-Jan-89	0.03	0.77	0.01	79.28	131.77	52.48	1293.3	19765.4	-0.89	2.49	1.08	0.05			
24-Jan-89	0.12	0.77	0.00	79.20	131.77	52.57	1293.2	19764.5	-0.89	9.96					
25-Jan-89	0.13	0.77	0.00	79.16	131.76	52.61	1293.2	19763.6	-0.89	10.79					
26-Jan-89	0.14	0.77	0.00	79.12	131.76	52.64	1293.2	19762.8	-0.89	11.62					
27-Jan-89	0.10	0.77	0.00	79.16	131.76	52.60	1293.2	19761.9	-0.89	8.30					
28-Jan-89	0.13	0.77	0.00	79.14	131.76	52.62	1293.2	19761.0	-0.89	10.79					
29-Jan-89	0.11	0.77	0.00	79.16	131.76	52.60	1293.1	19760.1	-0.89	9.13					
30-Jan-89	0.11	0.77	0.00	79.20	131.76	52.56	1293.1	19759.2	-0.89	9.13					
31-Jan-89	0.12	0.77	0.00	79.13	131.76	52.63	1293.1	19758.3	-0.89	9.96					
01-Feb-89	0.16	0.69	0.00	79.08	131.76	52.68	1293.1	19757.4	-0.89	11.90					
02-Feb-89	0.09	0.69	0.00	79.03	131.75	52.72	1292.6	19738.0	-19.39	6.69					
03-Feb-89	0.13	0.69	0.00	78.99	131.73	52.74	1292.1	19718.6	-19.39	9.66					
04-Feb-89	0.13	0.69	0.00	79.01	131.72	52.71	1291.7	19699.2	-19.38	9.66					
05-Feb-89	0.12	0.69	0.00	79.05	131.70	52.65	1291.2	19679.9	-19.37	8.91					
06-Feb-89	0.16	0.69	0.00	79.05	131.69	52.63	1290.7	19660.5	-19.36	11.87					
07-Feb-89	0.17	0.69	0.00	79.01	131.67	52.66	1290.3	19641.2	-19.36	12.61					
08-Feb-89	0.07	0.69	0.00	78.96	131.66	52.70	1289.8	19621.8	-19.35	5.19					
09-Feb-89	0.21	0.69	0.00	78.85	131.64	52.79	1289.3	19602.5	-19.34	15.57					
10-Feb-89	0.16	0.69	0.00	78.85	131.64	52.79	1289.3	19601.3	-1.17	11.86					
11-Feb-89	0.14	0.69	0.00	78.89	131.64	52.75	1289.3	19600.1	-1.17	10.38					
12-Feb-89	0.13	0.69	0.00	78.85	131.64	52.78	1289.2	19598.9	-1.17	9.64					
13-Feb-89	0.12	0.69	0.00	78.81	131.64	52.82	1289.2	19597.8	-1.17	8.90					
14-Feb-89	0.14	0.69	0.00	78.75	131.64	52.88	1289.2	19596.6	-1.17	10.38					
15-Feb-89	0.17	0.69	0.00	78.72	131.63	52.92	1289.2	19595.4	-1.17	12.60					
16-Feb-89	0.17	0.69	0.00	78.74	131.63	52.90	1289.1	19594.3	-1.17	12.60					
17-Feb-89	0.15	0.69	0.00	78.76	131.63	52.87	1289.1	19593.1	-1.17	11.12					
18-Feb-89	0.09	0.69	0.00	78.78	131.63	52.85	1289.1	19591.9	-1.17	6.67					
19-Feb-89	0.04	0.69	0.00	78.81	131.63	52.82	1289.0	19590.7	-1.17	2.96					
20-Feb-89	0.08	0.69	0.00	78.83	131.63	52.80	1289.0	19589.6	-1.17	5.93					
21-Feb-89	0.14	0.69	0.00	78.85	131.63	52.77	1289.0	19588.4	-1.17	10.38					
22-Feb-89	0.21	0.69	0.84	78.89	131.63	52.74	1289.0	19587.2	-1.17	15.56	90.23	3.89			
23-Feb-89	0.15	0.69	0.00	78.78	131.63	52.85	1288.9	19586.1	-1.17	11.12					
24-Feb-89	0.14	0.69	0.00	78.60	131.63	53.03	1288.9	19584.9	-1.17	10.38					
25-Feb-89	0.14	0.69	0.00	78.57	131.63	53.06	1288.9	19583.7	-1.17	10.38					
26-Feb-89	0.14	0.69	0.00	78.62	131.62	53.00	1288.8	19582.5	-1.17	10.38					
27-Feb-89	0.15	0.69	0.00	78.73	131.62	52.90	1288.8	19581.4	-1.17	11.12					
28-Feb-89	0.19	0.69	0.00	78.70	131.62	52.93	1288.8	19580.2	-1.17	14.08					
01-Mar-89	0.20	0.73	0.00	78.65	131.62	52.97	1288.8	19579.0	-1.17	15.68					
02-Mar-89	0.11	0.73	0.92	78.76	131.62	52.86	1288.7	19577.9	-1.17	8.62	98.80	4.26			
03-Mar-89	0.01	0.73	0.21	78.81	131.62	52.81	1288.7	19576.7	-1.17	0.78	22.55	0.97			
04-Mar-89	0.13	0.73	0.13	78.76	131.61	52.85	1288.5	19569.2	-7.48	10.19	13.96	0.60			
05-Mar-89	0.18	0.73	0.00	78.75	131.61	52.86	1288.3	19561.7	-7.48	14.11					
06-Mar-89	0.19	0.73	0.00	78.75	131.60	52.85	1288.2	19554.2	-7.48	14.89					
07-Mar-89	0.15	0.73	0.00	78.73	131.60	52.87	1288.0	19546.8	-7.48	11.75					
08-Mar-89	0.09	0.73	0.00	78.66	131.59	52.93	1287.8	19539.3	-7.48	7.05					
09-Mar-89	0.05	0.73	0.00	78.63	131.59	52.95	1287.6	19531.8	-7.48	3.92					
10-Mar-89	0.04	0.73	0.00	78.62	131.58	52.96	1287.4	19524.3	-7.48	3.13					
11-Mar-89	0.21	0.73	0.00	78.60	131.57	52.97	1287.2	19516.9	-7.47	16.44					
12-Mar-89	0.19	0.73	0.00	78.62	131.57	52.94	1287.1	19509.4	-7.47	14.88					

SAND HILL LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 5555

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. (ac-ft)	Lake Precip. (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
13-Mar-89	0.23	0.73	0.00	78.61	131.56	52.95	1286.9	19501.9	-7.47	18.01					
14-Mar-89	0.20	0.73	0.00	78.58	131.56	52.98	1286.7	19494.4	-7.47	15.65					
15-Mar-89	0.30	0.73	0.00	78.52	131.55	53.03	1286.5	19487.0	-7.47	23.48					
16-Mar-89	0.19	0.73	0.00	78.46	131.54	53.09	1286.3	19479.5	-7.47	14.87					
17-Mar-89	0.23	0.73	0.00	78.39	131.54	53.15	1286.2	19472.0	-7.47	18.00					
18-Mar-89	0.23	0.73	0.00	78.35	131.53	53.18	1286.0	19464.6	-7.47	17.99					
19-Mar-89	0.19	0.73	0.00	78.32	131.53	53.21	1285.8	19457.1	-7.47	14.86					
20-Mar-89	0.26	0.73	0.00	78.33	131.52	53.19	1285.6	19449.6	-7.47	20.33					
21-Mar-89	0.15	0.73	0.00	78.36	131.52	53.15	1285.4	19442.2	-7.46	11.73					
22-Mar-89	0.22	0.73	0.00	78.35	131.51	53.16	1285.2	19434.7	-7.46	17.20					
23-Mar-89	0.14	0.73	0.22	78.43	131.50	53.07	1285.1	19427.2	-7.46	10.94	23.56	1.02			
24-Mar-89	0.17	0.73	0.08	78.40	131.50	53.10	1284.9	19419.8	-7.46	13.29	8.57	0.37			
25-Mar-89	0.12	0.73	0.00	78.38	131.49	53.11	1284.7	19412.3	-7.46	9.38					
26-Mar-89	0.12	0.73	0.00	78.36	131.49	53.12	1284.5	19404.9	-7.46	9.38					
27-Mar-89	0.21	0.73	0.00	78.30	131.48	53.18	1284.3	19397.4	-7.46	16.41					
28-Mar-89	0.21	0.73	0.00	78.28	131.47	53.19	1284.2	19389.9	-7.46	16.41					
29-Mar-89	0.26	0.73	0.00	78.28	131.47	53.19	1284.0	19382.5	-7.46	20.31					
30-Mar-89	0.19	0.73	0.00	78.33	131.46	53.13	1283.8	19375.0	-7.45	14.84					
31-Mar-89	0.17	0.73	0.00	78.31	131.46	53.14	1283.6	19367.6	-7.45	13.27					
01-Apr-89	0.38	0.84	0.00	78.15	131.45	53.30	1283.4	19360.1	-7.45	34.14					
02-Apr-89	0.23	0.84	0.00	78.09	131.45	53.35	1283.3	19352.7	-7.45	20.66					
03-Apr-89	0.23	0.84	0.00	78.08	131.44	53.36	1283.1	19345.2	-7.45	20.66					
04-Apr-89	0.18	0.84	0.00	78.04	131.44	53.39	1283.0	19343.4	-1.77	16.17					
05-Apr-89	0.23	0.84	0.19	78.12	131.44	53.32	1283.0	19341.7	-1.77	20.66	20.31	0.88			
06-Apr-89	0.17	0.84	0.12	78.17	131.44	53.26	1282.9	19339.9	-1.77	15.27	12.83	0.56			
07-Apr-89	0.27	0.84	0.00	78.21	131.43	53.22	1282.9	19338.1	-1.77	24.25					
08-Apr-89	0.22	0.84	0.00	78.18	131.43	53.25	1282.9	19336.4	-1.77	19.76					
09-Apr-89	0.25	0.84	0.00	78.10	131.43	53.33	1282.8	19334.6	-1.77	22.45					
10-Apr-89	0.25	0.84	0.00	78.03	131.43	53.40	1282.8	19332.8	-1.77	22.45					
11-Apr-89	0.23	0.84	0.08	78.01	131.43	53.42	1282.7	19331.1	-1.77	20.65	8.55	0.37			
12-Apr-89	0.04	0.84	0.13	78.04	131.43	53.38	1282.7	19329.3	-1.77	3.59	13.90	0.60			
13-Apr-89	0.15	0.84	0.00	78.06	131.43	53.37	1282.6	19327.5	-1.77	13.47					
14-Apr-89	0.12	0.84	0.00	78.03	131.42	53.40	1282.6	19325.8	-1.77	10.77					
15-Apr-89	0.16	0.84	0.75	78.12	131.42	53.31	1282.6	19324.0	-1.77	14.36	80.16	3.47			
16-Apr-89	0.10	0.84	0.06	78.08	131.42	53.35	1282.5	19322.2	-1.77	8.98	6.41	0.28			
17-Apr-89	0.20	0.84	0.00	77.97	131.42	53.45	1282.5	19320.4	-1.77	17.95					
18-Apr-89	0.24	0.84	0.00	77.97	131.42	53.45	1282.4	19318.7	-1.77	21.54					
19-Apr-89	0.21	0.84	0.00	77.97	131.42	53.45	1282.4	19316.9	-1.77	18.85					
20-Apr-89	0.21	0.84	0.00	77.96	131.42	53.45	1282.3	19315.1	-1.77	18.85					
21-Apr-89	0.17	0.84	0.01	77.98	131.42	53.44	1282.3	19313.4	-1.77	15.26	1.07	0.05			
22-Apr-89	0.13	0.84	0.00	77.88	131.41	53.53	1282.3	19311.6	-1.77	11.67					
23-Apr-89	0.21	0.84	0.00	77.81	131.41	53.60	1282.2	19309.8	-1.77	18.85					
24-Apr-89	0.23	0.84	0.00	77.77	131.41	53.65	1282.2	19308.1	-1.77	20.64					
25-Apr-89	0.26	0.84	0.00	77.77	131.41	53.64	1282.1	19306.3	-1.77	23.33					
26-Apr-89	0.27	0.84	0.00	77.74	131.41	53.67	1282.1	19304.5	-1.77	24.23					
27-Apr-89	0.27	0.84	0.00	77.72	131.41	53.69	1282.0	19302.8	-1.77	24.23					
28-Apr-89	0.29	0.84	0.00	77.66	131.41	53.74	1282.0	19301.0	-1.77	26.02					
29-Apr-89	0.28	0.84	0.00	77.59	131.40	53.81	1281.9	19299.2	-1.77	25.13					
30-Apr-89	0.28	0.84	0.00	77.58	131.40	53.82	1281.9	19297.5	-1.77	25.13					
01-May-89	0.22	0.82	0.08	77.72	131.40	53.68	1281.9	19295.7	-1.77	19.27	8.55	0.37			
02-May-89	0.13	0.82	0.59	77.73	131.40	53.67	1281.8	19293.9	-1.77	11.39	63.02	2.73			
03-May-89	0.27	0.82	0.00	77.65	131.39	53.74	1281.6	19285.4	-8.54	23.65					
04-May-89	0.25	0.82	0.00	77.62	131.39	53.76	1281.4	19276.8	-8.54	21.89					
05-May-89	0.22	0.82	0.00	77.60	131.38	53.78	1281.2	19268.3	-8.54	19.26					
06-May-89	0.26	0.82	0.00	77.61	131.37	53.76	1281.0	19259.7	-8.54	22.76					
07-May-89	0.30	0.82	0.10	77.62	131.37	53.74	1280.8	19251.2	-8.54	26.26	10.67	0.46			
08-May-89	0.39	0.82	0.00	77.57	131.36	53.79	1280.6	19242.7	-8.54	34.13					
09-May-89	0.24	0.82	0.00	77.54	131.35	53.81	1280.4	19234.1	-8.54	21.00					
10-May-89	0.31	0.82	0.00	77.58	131.35	53.76	1280.2	19225.6	-8.54	27.12					
11-May-89	0.16	0.82	0.30	77.62	131.34	53.72	1279.9	19217.1	-8.53	13.99	32.00	1.39			
12-May-89	0.27	0.82	0.00	77.57	131.33	53.76	1279.7	19208.5	-8.53	23.61					
13-May-89	0.32	0.82	0.00	77.52	131.33	53.81	1279.5	19200.0	-8.53	27.98					
14-May-89	0.16	0.82	0.00	77.46	131.32	53.86	1279.3	19191.5	-8.53	13.99					
15-May-89	0.28	0.82	0.00	77.38	131.31	53.94	1279.1	19182.9	-8.53	24.47					
16-May-89	0.31	0.82	0.00	77.34	131.31	53.97	1278.9	19174.4	-8.53	27.09					
17-May-89	0.31	0.82	0.00	77.28	131.30	54.02	1278.7	19165.9	-8.53	27.09					
18-May-89	0.32	0.82	0.00	77.22	131.29	54.08	1278.5	19157.4	-8.52	27.96					
19-May-89	0.31	0.82	0.00	77.22	131.29	54.06	1278.3	19148.8	-8.52	27.08					
20-May-89	0.19	0.82	0.00	77.20	131.28	54.08	1278.1	19140.3	-8.52	16.59					
21-May-89	0.20	0.82	0.02	77.22	131.27	54.05	1277.9	19131.8	-8.52	17.46	2.13	0.09			

SAND HILL LAKE DAILY WATER BUDGET:

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 5555		Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)				
22-May-89	0.25	0.82	0.74	77.36	131.27	53.91	1277.7	19123.3	-8.52	21.83	78.79	3.43			
23-May-89	0.22	0.82	0.00	77.31	131.26	53.95	1277.4	19114.8	-8.52	19.20					
24-May-89	0.23	0.82	0.00	77.30	131.25	53.95	1277.2	19106.3	-8.52	20.07					
25-May-89	0.16	0.82	0.10	77.28	131.25	53.97	1277.0	19097.7	-8.51	13.96	10.64	0.46			
26-May-89	0.23	0.82	0.00	77.16	131.24	54.08	1276.8	19089.2	-8.51	20.07					
27-May-89	0.28	0.82	0.00	77.07	131.23	54.16	1276.6	19080.7	-8.51	24.43					
28-May-89	0.33	0.82	0.00	77.03	131.23	54.20	1276.4	19072.2	-8.51	28.78					
29-May-89	0.36	0.82	0.00	76.97	131.22	54.25	1276.2	19063.7	-8.51	31.39					
30-May-89	0.25	0.82	0.05	76.98	131.21	54.23	1276.0	19055.2	-8.51	21.80	5.32	0.23			
31-May-89	0.30	0.82	0.00	76.95	131.21	54.25	1275.8	19046.7	-8.51	26.15					
01-Jun-89	0.35	0.85	0.00	76.92	131.20	54.28	1275.6	19038.2	-8.50	31.62					
02-Jun-89	0.34	0.85	0.00	76.88	131.18	54.30	1274.8	19007.6	-30.60	30.70					
03-Jun-89	0.28	0.85	0.00	76.86	131.15	54.29	1274.1	18977.0	-30.59	25.27					
04-Jun-89	0.33	0.85	0.00	76.82	131.13	54.31	1273.3	18946.4	-30.57	29.76					
05-Jun-89	0.30	0.85	0.00	76.84	131.10	54.26	1272.6	18915.9	-30.55	27.04					
06-Jun-89	0.27	0.85	0.00	77.00	131.08	54.08	1271.8	18885.3	-30.53	24.32					
07-Jun-89	0.12	0.85	0.47	77.10	131.08	53.98	1271.8	18883.4	-1.88	10.81	49.81	2.18			
08-Jun-89	0.11	0.85	0.01	77.08	131.08	54.00	1271.7	18881.6	-1.88	9.91	1.06	0.05			
09-Jun-89	0.15	0.85	0.81	77.10	131.08	53.98	1271.7	18879.7	-1.88	13.51	85.84	3.75			
10-Jun-89	0.28	0.85	0.00	77.00	131.07	54.07	1271.6	18877.8	-1.88	25.22					
11-Jun-89	0.30	0.85	0.00	76.96	131.07	54.11	1271.6	18875.9	-1.88	27.02					
12-Jun-89	0.27	0.85	0.00	76.96	131.07	54.11	1271.5	18874.0	-1.88	24.32					
13-Jun-89	0.26	0.85	0.00	76.95	131.07	54.11	1271.5	18872.1	-1.88	23.42					
14-Jun-89	0.29	0.85	0.00	76.89	131.07	54.18	1271.4	18870.3	-1.88	26.12					
15-Jun-89	0.31	0.85	0.00	76.83	131.07	54.24	1271.4	18868.4	-1.88	27.92					
16-Jun-89	0.28	0.85	0.00	76.84	131.07	54.23	1271.4	18866.5	-1.88	25.22					
17-Jun-89	0.33	0.85	1.31	76.81	131.06	54.25	1271.3	18864.6	-1.88	29.72	138.78	6.06			
18-Jun-89	0.14	0.85	0.02	76.82	131.06	54.24	1271.3	18862.7	-1.88	12.61	2.12	0.09			
19-Jun-89	0.40	0.85	0.94	76.93	131.06	54.13	1271.2	18860.8	-1.88	36.02	99.58	4.35			
20-Jun-89	0.31	0.85	0.09	76.96	131.06	54.10	1271.2	18859.0	-1.88	27.91	9.53	0.42			
21-Jun-89	0.15	0.85	1.72	76.91	131.06	54.14	1271.1	18857.1	-1.88	13.51	182.19	7.96			
22-Jun-89	0.25	0.85	1.72	76.91	131.06	54.14	1271.1	18855.2	-1.88	22.51	182.19	7.96			
23-Jun-89	0.32	0.85	0.00	76.92	131.05	54.13	1271.0	18853.3	-1.88	28.81					
24-Jun-89	0.13	0.85	0.70	76.95	131.05	54.10	1271.0	18851.4	-1.88	11.70	74.14	3.24			
25-Jun-89	0.15	0.85	0.00	76.94	131.05	54.11	1270.9	18849.5	-1.88	13.50					
26-Jun-89	0.21	0.85	0.00	76.89	131.05	54.16	1270.9	18847.7	-1.88	18.90					
27-Jun-89	0.25	0.85	0.00	76.84	131.05	54.21	1270.8	18845.8	-1.88	22.50					
28-Jun-89	0.30	0.85	0.00	76.78	131.05	54.27	1270.8	18843.9	-1.88	27.00					
29-Jun-89	0.25	0.85	2.20	76.78	131.05	54.27	1270.8	18842.0	-1.88	22.50	232.97	10.18			
30-Jun-89	0.18	0.85	0.67	76.84	131.04	54.20	1270.7	18840.1	-1.88	16.20	70.95	3.10			
01-Jul-89	0.27	0.91	0.08	76.92	131.04	54.12	1270.7	18838.3	-1.88	26.02	8.47	0.37			
02-Jul-89	0.18	0.91	0.27	76.95	131.04	54.09	1270.6	18836.4	-1.88	17.34	28.59	1.25			
03-Jul-89	0.21	0.91	0.02	76.95	131.04	54.09	1270.6	18834.5	-1.88	20.23	2.12	0.09			
04-Jul-89	0.23	0.91	0.00	76.95	131.04	54.09	1270.6	18835.2	0.69	22.16					
05-Jul-89	0.14	0.91	0.00	76.91	131.04	54.13	1270.6	18835.9	0.69	13.49					
06-Jul-89	0.25	0.91	0.00	76.84	131.04	54.21	1270.6	18836.5	0.69	24.09					
07-Jul-89	0.20	0.91	0.00	76.80	131.04	54.25	1270.6	18837.2	0.69	19.27					
08-Jul-89	0.24	0.91	0.00	76.79	131.04	54.25	1270.7	18837.9	0.69	23.13					
09-Jul-89	0.30	0.91	0.00	76.78	131.04	54.26	1270.7	18838.6	0.69	28.91					
10-Jul-89	0.30	0.91	0.00	76.78	131.04	54.26	1270.7	18839.3	0.69	28.91					
11-Jul-89	0.23	0.91	0.00	76.74	131.04	54.30	1270.7	18840.0	0.69	22.16					
12-Jul-89	0.36	0.91	0.00	76.72	131.04	54.33	1270.7	18840.7	0.69	34.69					
13-Jul-89	0.31	0.91	0.17	76.76	131.05	54.29	1270.7	18841.4	0.69	29.87	18.00	0.79			
14-Jul-89	0.17	0.91	0.00	76.84	131.05	54.20	1270.8	18842.0	0.69	16.38					
15-Jul-89	0.13	0.91	0.01	76.81	131.05	54.23	1270.8	18842.7	0.69	12.53	1.06	0.05			
16-Jul-89	0.17	0.91	0.00	76.82	131.05	54.23	1270.8	18843.4	0.69	16.38					
17-Jul-89	0.17	0.91	0.00	76.82	131.05	54.23	1270.8	18844.1	0.69	16.38					
18-Jul-89	0.22	0.91	0.00	76.80	131.05	54.24	1270.8	18844.8	0.69	21.20					
19-Jul-89	0.21	0.91	0.05	76.80	131.05	54.24	1270.8	18845.5	0.69	20.24	5.30	0.23			
20-Jul-89	0.11	0.91	0.51	76.84	131.05	54.21	1270.9	18846.2	0.69	10.60	54.01	2.36			
21-Jul-89	0.17	0.91	0.25	76.80	131.05	54.25	1270.9	18846.8	0.69	16.38	26.48	1.16			
22-Jul-89	0.34	0.91	1.86	76.75	131.05	54.30	1270.9	18847.5	0.69	32.77	196.99	8.61			
23-Jul-89	0.25	0.91	0.72	76.76	131.05	54.29	1270.9	18848.2	0.69	24.09	76.25	3.33			
24-Jul-89	0.16	0.91	0.01	76.76	131.05	54.29	1270.9	18848.9	0.69	15.42	1.06	0.05			
25-Jul-89	0.21	0.91	0.00	76.75	131.05	54.30	1270.9	18849.6	0.69	20.24					
26-Jul-89	0.29	0.91	0.00	76.75	131.05	54.30	1271.0	18850.3	0.69	27.95					
27-Jul-89	0.18	0.91	0.03	76.78	131.05	54.27	1271.0	18851.0	0.69	17.35	3.18	0.14			
28-Jul-89	0.31	0.91	0.00	76.76	131.05	54.30	1271.0	18851.7	0.69	29.88					
29-Jul-89	0.39	0.91	0.00	76.71	131.05	54.35	1271.0	18852.3	0.69	37.59					
30-Jul-89	0.31	0.91	0.00	76.70	131.05	54.35	1271.0	18853.0	0.69	29.88					

SAND HILL LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 5555

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
31-Jul-89	0.14	0.91	0.00	76.66	131.06	54.39	1271.0	18853.7	0.69	13.49					
01-Aug-89	0.31	0.91	0.00	76.64	131.06	54.41	1271.1	18854.4	0.69	29.88					
02-Aug-89	0.19	0.91	0.00	76.68	131.06	54.38	1271.1	18855.1	0.69	18.31					
03-Aug-89	0.27	0.91	0.75	76.72	131.06	54.34	1271.1	18855.8	0.69	26.03	79.44	3.47			
04-Aug-89	0.24	0.91	0.00	76.68	131.06	54.37	1271.1	18856.5	0.69	23.13					
05-Aug-89	0.30	0.91	0.00	76.66	131.06	54.40	1271.1	18857.2	0.69	28.92					
06-Aug-89	0.23	0.91	0.00	76.64	131.06	54.42	1271.1	18857.8	0.69	22.17					
07-Aug-89	0.30	0.91	0.00	76.57	131.06	54.49	1271.2	18859.9	2.06	28.92					
08-Aug-89	0.23	0.91	0.00	76.53	131.06	54.53	1271.2	18858.9	-1.02	22.17					
09-Aug-89	0.20	0.91	0.23	76.51	131.06	54.55	1271.1	18857.9	-1.02	19.28	24.36	1.06			
10-Aug-89	0.05	0.91	0.11	76.57	131.06	54.48	1271.1	18856.9	-1.02	4.82	11.65	0.51			
11-Aug-89	0.12	0.91	0.50	76.61	131.06	54.44	1271.1	18855.8	-1.02	11.57	52.96	2.31			
12-Aug-89	0.29	0.91	1.29	76.63	131.06	54.43	1271.1	18854.8	-1.02	27.95	136.64	5.97			
13-Aug-89	0.10	0.91	0.13	76.65	131.06	54.40	1271.0	18853.8	-1.02	9.64	13.77	0.60			
14-Aug-89	0.12	0.91	0.01	76.68	131.05	54.38	1271.0	18852.8	-1.02	11.57	1.06	0.05			
15-Aug-89	0.24	0.91	0.88	76.67	131.05	54.39	1271.0	18851.8	-1.02	23.13	93.21	4.07			
16-Aug-89	0.33	0.91	0.00	76.66	131.05	54.39	1271.0	18850.8	-1.02	31.81					
17-Aug-89	0.18	0.91	0.01	76.61	131.05	54.44	1270.9	18849.7	-1.02	17.35	1.06	0.05			
18-Aug-89	0.21	0.91	0.00	76.57	131.05	54.49	1270.9	18848.7	-1.02	20.24					
19-Aug-89	0.25	0.91	0.00	76.55	131.05	54.50	1270.9	18847.7	-1.02	24.09					
20-Aug-89	0.18	0.91	0.10	76.60	131.05	54.45	1270.9	18846.7	-1.02	17.35	10.59	0.46			
21-Aug-89	0.20	0.91	0.31	76.62	131.05	54.43	1270.8	18845.7	-1.02	19.27	32.83	1.44			
22-Aug-89	0.24	0.91	0.20	76.61	131.05	54.44	1270.8	18844.7	-1.02	23.13	21.18	0.93			
23-Aug-89	0.34	0.91	1.40	76.60	131.05	54.44	1270.8	18843.6	-1.02	32.77	148.26	6.48			
24-Aug-89	0.28	0.91	0.00	76.59	131.05	54.46	1270.8	18842.6	-1.02	26.98					
25-Aug-89	0.32	0.91	0.49	76.64	131.05	54.40	1270.7	18841.6	-1.02	30.84	51.89	2.27			
26-Aug-89	0.17	0.91	0.06	76.63	131.04	54.42	1270.7	18840.6	-1.02	16.38	6.35	0.28			
27-Aug-89	0.25	0.91	0.60	76.61	131.04	54.43	1270.7	18839.6	-1.02	24.09	63.53	2.78			
28-Aug-89	0.24	0.91	0.74	76.60	131.04	54.45	1270.7	18838.6	-1.02	23.13	78.36	3.43			
29-Aug-89	0.26	0.91	0.00	76.59	131.04	54.45	1270.6	18837.5	-1.02	25.05					
30-Aug-89	0.27	0.91	0.00	76.60	131.04	54.44	1270.6	18836.5	-1.02	26.02					
31-Aug-89	0.22	0.91	0.00	76.57	131.04	54.47	1270.6	18835.5	-1.02	21.20					
01-Sep-89	0.31	0.85	1.27	76.62	131.04	54.42	1270.6	18834.5	-1.02	27.90	134.47	5.88			
02-Sep-89	0.26	0.85	0.23	76.62	131.04	54.42	1270.6	18837.8	3.28	23.40	24.35	1.06			
03-Sep-89	0.27	0.85	1.63	76.61	131.05	54.43	1270.7	18841.0	3.28	24.30	172.61	7.55			
04-Sep-89	0.19	0.85	0.24	76.60	131.05	54.44	1270.8	18844.3	3.28	17.10	25.42	1.11			
05-Sep-89	0.15	0.85	0.13	76.63	131.05	54.42	1270.9	18847.6	3.28	13.50	13.77	0.60			
06-Sep-89	0.29	0.85	0.55	76.64	131.05	54.41	1271.0	18850.9	3.28	26.11	58.25	2.55			
07-Sep-89	0.18	0.85	0.00	76.68	131.06	54.38	1271.0	18854.2	3.28	16.21					
08-Sep-89	0.14	0.85	0.33	76.71	131.06	54.35	1271.1	18857.4	3.28	12.61	34.96	1.53			
09-Sep-89	0.19	0.85	0.28	76.71	131.06	54.35	1271.2	18860.7	3.28	17.11	29.66	1.30			
10-Sep-89	0.23	0.85	0.00	76.69	131.06	54.37	1271.3	18864.0	3.28	20.71					
11-Sep-89	0.21	0.85	0.00	76.69	131.07	54.37	1271.4	18867.3	3.28	18.91					
12-Sep-89	0.21	0.85	0.00	76.68	131.07	54.39	1271.5	18870.6	3.28	18.91					
13-Sep-89	0.23	0.85	0.00	76.70	131.07	54.37	1271.5	18873.8	3.28	20.72					
14-Sep-89	0.17	0.85	0.00	76.72	131.07	54.36	1271.6	18877.1	3.28	15.31					
15-Sep-89	0.18	0.85	0.01	76.73	131.08	54.34	1271.7	18880.4	3.28	16.21	1.06	0.05			
16-Sep-89	0.22	0.85	0.42	76.72	131.08	54.35	1271.8	18883.7	3.28	19.82	44.51	1.94			
17-Sep-89	0.13	0.85	0.55	76.81	131.08	54.27	1271.9	18887.0	3.28	11.71	58.29	2.55			
18-Sep-89	0.11	0.85	0.33	76.89	131.08	54.19	1271.9	18890.3	3.28	9.91	34.98	1.53			
19-Sep-89	0.21	0.85	0.00	76.83	131.09	54.26	1272.0	18893.5	3.28	18.92					
20-Sep-89	0.23	0.85	0.00	76.80	131.09	54.29	1272.1	18896.8	3.28	20.72					
21-Sep-89	0.22	0.85	0.00	76.84	131.09	54.26	1272.2	18900.1	3.28	19.82					
22-Sep-89	0.23	0.85	0.00	76.81	131.09	54.28	1272.3	18903.4	3.28	20.73					
23-Sep-89	0.06	0.85	0.75	76.83	131.10	54.27	1272.3	18906.7	3.28	5.41	79.52	3.47			
24-Sep-89	0.06	0.85	0.32	76.81	131.10	54.29	1272.4	18910.0	3.28	5.41	33.93	1.48			
25-Sep-89	0.10	0.85	0.42	76.87	131.10	54.23	1272.5	18913.2	3.28	9.01	44.54	1.94			
26-Sep-89	0.01	0.85	0.26	76.87	131.10	54.24	1272.6	18916.5	3.28	0.90	27.57	1.20			
27-Sep-89	0.08	0.85	0.02	76.82	131.11	54.29	1272.7	18919.8	3.28	7.21	2.12	0.09			
28-Sep-89	0.15	0.85	0.00	76.82	131.11	54.29	1272.7	18923.1	3.28	13.52					
29-Sep-89	0.16	0.85	0.38	76.85	131.11	54.26	1272.8	18926.4	3.28	14.43	40.31	1.76			
30-Sep-89	0.18	0.85	0.00	76.84	131.11	54.27	1272.9	18929.7	3.28	16.23					
01-Oct-89	0.24	0.76	0.57	76.87	131.12	54.25	1273.0	18932.9	3.29	19.35	60.47	2.64			
02-Oct-89	0.21	0.76	1.30	76.88	131.12	54.24	1273.1	18936.2	3.29	16.93	137.92	6.02			
03-Oct-89	0.18	0.76	0.00	76.87	131.11	54.24	1272.7	18920.3	-15.91	14.51					
04-Oct-89	0.15	0.76	0.00	76.87	131.10	54.23	1272.3	18904.4	-15.91	12.09					
05-Oct-89	0.20	0.76	0.00	76.83	131.08	54.25	1271.9	18888.5	-15.90	16.11					
06-Oct-89	0.19	0.76	0.00	76.81	131.07	54.26	1271.5	18872.6	-15.90	15.30					
07-Oct-89	0.21	0.76	0.00	76.83	131.06	54.23	1271.1	18856.7	-15.89	16.91					
08-Oct-89	0.26	0.76	0.25	76.87	131.05	54.18	1270.7	18840.8	-15.89	20.92	26.47	1.16			

SAND HILL LAKE DAILY WATER BUDGET:

													Runoff Coeff. = 0.01							
													Drain. Area (ac) = 5555							
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)					
09-Oct-89	0.18	0.76	0.00	76.82	131.03	54.21	1270.3	18825.0	-15.88	14.48										
10-Oct-89	0.11	0.76	0.00	76.85	131.02	54.17	1269.9	18809.1	-15.88	8.85										
11-Oct-89	0.07	0.76	0.00	76.82	131.01	54.19	1269.6	18796.4	-12.70	5.63										
12-Oct-89	0.13	0.76	0.05	76.77	131.00	54.23	1269.3	18783.7	-12.69	10.45	5.29	0.23	11.9	7.07						
13-Oct-89	0.13	0.76	0.00	76.77	130.99	54.22	1269.0	18771.0	-12.69	10.45			11.9	19.66	2.86E-04					
14-Oct-89	0.16	0.76	0.00	76.76	130.98	54.22	1268.7	18758.3	-12.69	12.86			11.9	14.14	2.06E-04					
15-Oct-89	0.16	0.76	0.00	76.72	130.97	54.25	1268.4	18745.6	-12.69	12.85			11.9	11.73	1.70E-04					
16-Oct-89	0.08	0.76	0.00	76.71	130.96	54.25	1268.1	18732.9	-12.68	6.42			11.9	11.73	1.70E-04					
17-Oct-89	0.19	0.76	0.00	76.70	130.95	54.25	1267.8	18720.3	-12.68	15.26			11.9	18.15	2.64E-04					
18-Oct-89	0.15	0.76	0.27	76.74	130.94	54.20	1267.4	18707.6	-12.68	12.04		1.25	11.9	9.32	1.36E-04					
19-Oct-89	0.16	0.76	0.66	76.72	130.93	54.21	1267.1	18694.9	-12.67	12.84	69.69	3.06	11.9	42.30	6.16E-04					
20-Oct-89	0.14	0.76	0.02	76.64	130.92	54.28	1266.8	18682.2	-12.67	11.23	2.11	0.09	11.9	84.48	1.23E-03					
21-Oct-89	0.15	0.76	0.00	76.57	130.91	54.34	1266.5	18669.6	-12.67	12.03			11.9	15.54	2.26E-04					
22-Oct-89	0.13	0.76	0.00	76.57	130.90	54.33	1266.2	18656.9	-12.66	10.42			11.9	12.53	1.82E-04					
23-Oct-89	0.14	0.76	0.00	76.60	130.89	54.29	1265.9	18644.3	-12.66	11.22			11.9	14.14	2.06E-04					
24-Oct-89	0.15	0.76	0.00	76.60	130.88	54.28	1265.6	18631.6	-12.66	12.02			11.9	13.33	1.94E-04					
25-Oct-89	0.17	0.76	0.00	76.61	130.87	54.26	1265.3	18618.9	-12.65	13.62			11.9	12.53	1.83E-04					
26-Oct-89	0.20	0.76	0.00	76.60	130.86	54.26	1264.9	18606.3	-12.65	16.02			11.9	10.93	1.59E-04					
27-Oct-89	0.11	0.76	0.00	76.61	130.85	54.24	1264.6	18593.6	-12.65	8.81			11.9	8.53	1.24E-04					
28-Oct-89	0.14	0.76	0.00	76.60	130.84	54.24	1264.3	18581.0	-12.64	11.21			11.9	15.73	2.29E-04					
29-Oct-89	0.22	0.76	0.00	76.64	130.83	54.19	1264.0	18568.4	-12.64	17.61			11.9	13.33	1.95E-04					
30-Oct-89	0.20	0.76	0.00	76.64	130.82	54.18	1263.7	18555.7	-12.64	16.01			11.9	6.93	1.01E-04					
31-Oct-89	0.01	0.76	0.00	76.57	130.81	54.24	1263.4	18543.1	-12.64	0.80			11.9	8.53	1.24E-04					
01-Nov-89	0.08	0.71	0.00	76.52	130.80	54.28	1263.1	18530.4	-12.63	5.98			11.9	23.73	3.46E-04					
02-Nov-89	0.12	0.71	0.00	76.52	130.79	54.27	1262.8	18517.8	-12.63	8.97			11.9	18.55	2.71E-04					
03-Nov-89	0.16	0.71	0.00	76.49	130.78	54.29	1262.4	18505.2	-12.63	11.95			11.9	15.56	2.27E-04					
04-Nov-89	0.09	0.71	0.00	76.41	130.78	54.36	1262.3	18499.8	-5.41	6.72			11.9	5.36	7.81E-05					
05-Nov-89	0.12	0.71	0.00	76.38	130.77	54.39	1262.2	18494.4	-5.41	8.96			11.9	10.59	1.54E-04					
06-Nov-89	0.15	0.71	0.00	76.41	130.77	54.35	1262.0	18489.0	-5.41	11.20			11.9	8.35	1.22E-04					
07-Nov-89	0.12	0.71	0.00	76.43	130.76	54.33	1261.9	18483.6	-5.41	8.96			11.9	6.11	8.91E-05					
08-Nov-89	0.13	0.71	0.00	76.46	130.76	54.30	1261.8	18478.1	-5.41	9.71			11.9	8.35	1.22E-04					
09-Nov-89	0.13	0.71	1.02	76.49	130.75	54.26	1261.6	18472.7	-5.41	9.70	107.24	4.72	11.9	7.60	1.11E-04					
10-Nov-89	0.07	0.71	0.03	76.45	130.75	54.30	1261.5	18467.3	-5.41	5.22	3.15	0.14	11.9	119.56	1.75E-03					
11-Nov-89	0.12	0.71	0.00	76.39	130.75	54.36	1261.4	18461.9	-5.41	8.96			11.9	15.37	2.24E-04					
12-Nov-89	0.13	0.71	0.00	76.37	130.74	54.37	1261.2	18456.5	-5.41	9.70			11.9	8.35	1.22E-04					
13-Nov-89	0.11	0.71	0.00	76.38	130.74	54.35	1261.1	18451.1	-5.41	8.21			11.9	7.60	1.11E-04					
14-Nov-89	0.14	0.71	0.00	76.42	130.73	54.31	1261.0	18445.7	-5.40	10.44			11.9	9.10	1.33E-04					
15-Nov-89	0.05	0.71	0.00	76.48	130.73	54.25	1260.8	18440.3	-5.40	3.73			11.9	6.86	1.00E-04					
16-Nov-89	0.08	0.71	0.09	76.50	130.72	54.22	1260.7	18434.9	-5.40	5.97	9.46	0.42	11.9	13.57	1.99E-04					
17-Nov-89	0.13	0.71	0.00	76.44	130.72	54.28	1260.6	18429.5	-5.40	9.70			11.9	21.21	3.10E-04					
18-Nov-89	0.10	0.71	0.00	76.33	130.72	54.38	1260.4	18424.1	-5.40	7.46			11.9	7.61	1.11E-04					
19-Nov-89	0.08	0.71	0.00	76.30	130.71	54.41	1260.3	18418.7	-5.40	5.97			11.9	9.84	1.44E-04					
20-Nov-89	0.08	0.71	0.00	76.37	130.71	54.33	1260.2	18413.3	-5.40	5.96			11.9	11.34	1.66E-04					
21-Nov-89	0.14	0.71	0.00	76.44	130.70	54.26	1260.0	18407.9	-5.40	10.44			11.9	11.34	1.66E-04					
22-Nov-89	0.09	0.71	0.00	76.43	130.70	54.27	1259.9	18402.5	-5.40	6.71			11.9	6.86	1.00E-04					
23-Nov-89	0.07	0.71	0.62	76.41	130.69	54.28	1259.8	18397.1	-5.40	5.22	65.09	2.87	11.9	10.59	1.55E-04					
24-Nov-89	0.09	0.71	0.00	76.30	130.69	54.39	1259.6	18391.7	-5.40	6.71			11.9	80.04	1.17E-03					
25-Nov-89	0.11	0.71	0.00	76.34	130.69	54.34	1259.5	18386.3	-5.40	8.20			11.9	10.59	1.55E-04					
26-Nov-89	0.07	0.71	0.05	76.40	130.68	54.28	1259.4	18380.9	-5.40	5.22	5.25	0.23	11.9	9.10	1.33E-04					
27-Nov-89	0.10	0.71	0.00	76.40	130.68	54.28	1259.2	18375.5	-5.40	7.45			11.9	17.56	2.57E-04					
28-Nov-89	0.04	0.71	0.00	76.39	130.67	54.28	1259.1	18370.1	-5.40	2.98			11.9	9.85	1.44E-04					
29-Nov-89	0.07	0.71	0.00	76.37	130.67	54.29	1259.0	18364.7	-5.40	5.21			11.9	14.32	2.09E-04					
30-Nov-89	0.21	0.71	0.00	76.27	130.66	54.39	1258.8	18359.3	-5.40	15.64			11.9	12.08	1.76E-04					
01-Dec-89	0.10	0.83	0.00	76.29	130.66	54.37	1258.7	18353.9	-5.39	8.71			11.9	1.65	2.42E-05					
02-Dec-89	0.11	0.83	0.00	76.30	130.65	54.34	1258.3	18337.7	-16.18	9.57			11.9	19.37	2.83E-04					
03-Dec-89	0.17	0.83	0.00	76.30	130.63	54.33	1257.9	18321.6	-16.18	14.79			11.9	18.50	2.71E-04					
04-Dec-89	0.13	0.83	0.00	76.26	130.62	54.36	1257.5	18305.4	-16.17	11.31			11.9	13.28	1.94E-04					
05-Dec-89	0.09	0.83	0.00	76.29	130.61	54.31	1257.1	18289.2	-16.17	7.83			11.9	16.76	2.45E-04					
06-Dec-89	0.11	0.83	0.00	76.31	130.60	54.28	1256.7	18273.1	-16.16	9.56			11.9	20.23	2.97E-04					
07-Dec-89	0.08	0.83	0.00	76.26	130.58	54.32	1256.3	18256.9	-16.15	6.95			11.9	18.49	2.71E-04					
08-Dec-89	0.11	0.83	0.00	76.36	130.57	54.21	1255.9	18240.8	-16.15	9.56			11.9	21.10	3.10E-04					
09-Dec-89	0.13	0.83	1.67	76.37	130.57	54.20	1256.0	18245.5	4.76	11.29	174.79	7.73	11.9	-2.42						
10-Dec-89	0.15	0.83	0.02	76.26	130.58	54.32	1256.1	18250.3	4.76	13.03	2.09	0.09	11.9	178.36	2.61E-03					
11-Dec-89	0.04	0.83	0.00	76.26	130.58	54.32	1256.2	18255.1	4.76	3.48			11.9	-3.71						
12-Dec-89	0.08	0.83	0.00	76.34	130.59	54.24	1256.3	18259.8	4.77	6.95			11.9	3.66	5.37E-05					
13-Dec-89	0.15	0.83	0.27	76.29	130.59	54.30	1256.5	18264.6	4.77	13.04	28.27	1.25	11.9	0.18	2.67E-06					
14-Dec-89	0.09	0.83	0.00	76.14	130.59	54.46	1256.6	18269.4	4.77	7.82			11.9	-0.69	3.45E-04					
15-Dec-89	0.09	0.83	0.00	76.21	130.60	54.39	1256.7	18274.1	4.77	7.82			11.9	-0.69						
16-Dec-89	0.06	0.83	0.25	76.22	130.60	54.38	1256.8	18278.9	4.77	5.22	26.18	1.16	11.9	-0.69						
17-Dec-89	0.09	0.83	0.01	76.15	130.60	54.45	1256.9	18283.7	4.77	7.82	1.05	0.05	11.9	29.26	4.27E-04					

SAND HILL LAKE DAILY WATER BUDGET:

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01		Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Drain. Area (ac) = 5555					
18-Dec-89	0.05	0.83	0.05	76.17	130.61	54.44	1257.1	18288.4	4.77	4.35	5.24	0.23	11.9	0.40	5.86E-06
19-Dec-89	0.01	0.83	0.43	76.21	130.61	54.40	1257.2	18293.2	4.77	0.87	45.05	1.99	11.9	8.25	1.21E-04
20-Dec-89	0.01	0.83	0.64	76.19	130.62	54.42	1257.3	18298.0	4.77	0.87	67.06	2.96	11.9	53.30	7.79E-04
21-Dec-89	0.04	0.83	0.00	76.17	130.62	54.45	1257.4	18302.7	4.77	3.48			11.9	76.28	1.11E-03
22-Dec-89	0.07	0.83	0.00	76.10	130.62	54.52	1257.5	18307.5	4.77	6.09			11.9	3.65	5.33E-05
23-Dec-89	0.05	0.83	0.36	76.01	130.63	54.62	1257.7	18312.3	4.77	4.35	37.73	1.67	11.9	1.04	1.52E-05
24-Dec-89	0.05	0.83	0.27	75.92	130.63	54.71	1257.8	18317.0	4.77	4.35	28.30	1.25	11.9	42.18	6.13E-04
25-Dec-89	0.05	0.83	0.05	75.86	130.63	54.78	1257.9	18321.8	4.77	4.35	5.24	0.23	11.9	32.33	4.69E-04
26-Dec-89	0.08	0.83	0.00	75.86	130.64	54.78	1258.0	18326.6	4.77	6.96			11.9	8.25	1.20E-04
27-Dec-89	0.08	0.83	0.00	75.92	130.64	54.72	1258.1	18331.4	4.77	6.96			11.9	0.17	2.43E-06
28-Dec-89	0.10	0.83	0.00	75.98	130.65	54.66	1258.2	18336.1	4.77	8.70			11.9	0.17	2.41E-06
29-Dec-89	0.07	0.83	0.00	76.02	130.65	54.63	1258.4	18340.9	4.77	6.09			11.9	-1.58	
30-Dec-89	0.07	0.83	0.00	76.04	130.65	54.61	1258.5	18345.7	4.77	6.09			11.9	1.03	1.50E-05
31-Dec-89	0.11	0.83	0.00	76.10	130.66	54.56	1258.6	18350.5	4.77	9.58			11.9	1.03	1.50E-05
01-Jan-90	0.15	0.77	0.25	76.06	130.66	54.60	1258.7	18355.2	4.77	12.12	26.22	1.16	11.9	-2.45	
02-Jan-90	0.16	0.77	0.00	75.97	130.66	54.70	1258.8	18360.0	4.77	12.92			11.9	22.39	3.25E-04
03-Jan-90	0.12	0.77	0.00	76.02	130.67	54.64	1259.0	18364.8	4.78	9.69			11.9	-5.80	
04-Jan-90	0.10	0.77	0.00	76.05	130.67	54.62	1259.1	18369.6	4.78	8.08			11.9	-2.57	
05-Jan-90	0.05	0.77	0.00	76.08	130.68	54.60	1259.2	18374.3	4.78	4.04			11.9	-0.96	
06-Jan-90	0.05	0.77	0.00	76.11	130.68	54.57	1259.3	18379.1	4.78	4.04			11.9	3.08	4.49E-05
07-Jan-90	0.03	0.77	0.57	76.14	130.68	54.54	1259.3	18377.8	-1.33	2.42	59.82	2.64	11.9	9.19	1.34E-04
08-Jan-90	0.07	0.77	0.46	76.14	130.68	54.54	1259.2	18376.5	-1.33	5.66	48.27	2.13	11.9	73.26	1.07E-03
09-Jan-90	0.15	0.77	0.00	76.02	130.68	54.65	1259.2	18375.1	-1.33	12.12			11.9	57.97	8.42E-04
10-Jan-90	0.06	0.77	0.00	76.05	130.68	54.63	1259.2	18373.8	-1.33	4.85			11.9	1.11	1.61E-05
11-Jan-90	0.09	0.77	0.00	76.06	130.67	54.62	1259.1	18372.5	-1.33	7.27			11.9	8.38	1.22E-04
12-Jan-90	0.10	0.77	0.00	76.10	130.67	54.58	1259.1	18371.1	-1.33	8.08			11.9	5.95	8.66E-05
13-Jan-90	0.23	0.77	0.00	75.95	130.67	54.73	1259.1	18369.8	-1.33	18.58			11.9	5.15	7.47E-05
14-Jan-90	0.13	0.77	0.00	75.90	130.67	54.77	1259.0	18368.5	-1.33	10.50			11.9	-5.36	
15-Jan-90	0.10	0.77	0.00	75.92	130.67	54.75	1259.0	18367.2	-1.33	8.08			11.9	2.72	3.95E-05
16-Jan-90	0.13	0.77	0.00	75.92	130.67	54.75	1259.0	18365.8	-1.33	10.50			11.9	5.15	7.47E-05
17-Jan-90	0.13	0.77	0.00	75.95	130.67	54.72	1258.9	18364.5	-1.33	10.50			11.9	2.72	3.95E-05
18-Jan-90	0.11	0.77	0.00	75.98	130.67	54.69	1258.9	18363.2	-1.33	8.89			11.9	2.72	3.96E-05
19-Jan-90	0.10	0.77	0.00	76.00	130.67	54.67	1258.9	18361.9	-1.33	8.08			11.9	4.34	6.31E-05
20-Jan-90	0.13	0.77	0.00	75.99	130.67	54.67	1258.9	18360.5	-1.33	10.50			11.9	5.15	7.48E-05
21-Jan-90	0.15	0.77	0.00	76.01	130.66	54.66	1258.8	18359.2	-1.33	12.12			11.9	2.72	3.96E-05
22-Jan-90	0.08	0.77	0.00	76.00	130.66	54.66	1258.8	18357.9	-1.33	6.46			11.9	1.11	1.61E-05
23-Jan-90	0.15	0.77	0.00	75.97	130.66	54.69	1258.8	18356.6	-1.33	12.12			11.9	6.76	9.82E-05
24-Jan-90	0.13	0.77	0.00	75.98	130.66	54.68	1258.7	18355.2	-1.32	10.50			11.9	1.11	1.61E-05
25-Jan-90	0.12	0.77	0.00	76.02	130.66	54.64	1258.7	18353.9	-1.32	9.69			11.9	2.73	3.96E-05
26-Jan-90	0.20	0.77	0.21	75.93	130.67	54.74	1258.8	18360.2	6.29	16.16	22.03	0.97	11.9	-4.09	
27-Jan-90	0.15	0.77	0.00	75.80	130.67	54.87	1259.0	18366.5	6.29	12.12			11.9	12.45	1.80E-04
28-Jan-90	0.13	0.77	0.00	75.93	130.68	54.75	1259.2	18372.8	6.30	10.50			11.9	-6.51	
29-Jan-90	0.12	0.77	0.00	76.06	130.68	54.62	1259.3	18379.1	6.30	9.70			11.9	-4.90	
30-Jan-90	0.11	0.77	0.00	76.03	130.69	54.65	1259.5	18385.4	6.30	8.89			11.9	-4.09	
31-Jan-90	0.09	0.77	0.39	76.01	130.69	54.68	1259.6	18391.7	6.30	7.27	40.94	1.81	11.9	-3.29	
01-Feb-90	0.12	0.69	0.00	75.95	130.70	54.75	1259.8	18398.0	6.30	8.69			11.9	41.07	5.95E-04
02-Feb-90	0.09	0.69	0.00	75.94	130.70	54.76	1259.9	18404.3	6.30	6.52			11.9	-3.09	
03-Feb-90	0.13	0.69	0.00	75.94	130.70	54.76	1259.8	18400.7	-3.55	9.42			11.9	8.93	1.29E-04
04-Feb-90	0.16	0.69	0.00	75.96	130.69	54.73	1259.8	18397.2	-3.55	11.59			11.9	6.04	8.75E-05
05-Feb-90	0.20	0.69	0.00	75.92	130.69	54.77	1259.7	18393.6	-3.55	14.49			11.9	3.86	5.60E-05
06-Feb-90	0.22	0.69	0.00	75.83	130.69	54.85	1259.6	18390.1	-3.55	15.93			11.9	0.97	1.40E-05
07-Feb-90	0.10	0.69	0.00	75.86	130.69	54.83	1259.5	18386.5	-3.55	7.24			11.9	-0.48	
08-Feb-90	0.14	0.69	0.00	75.85	130.68	54.83	1259.4	18383.0	-3.55	10.14			11.9	8.21	1.19E-04
09-Feb-90	0.12	0.69	0.00	75.86	130.68	54.82	1259.3	18379.4	-3.55	8.69			11.9	5.31	7.70E-05
10-Feb-90	0.16	0.69	0.00	75.91	130.68	54.76	1259.2	18375.9	-3.55	11.58			11.9	6.76	9.81E-05
11-Feb-90	0.07	0.69	0.89	75.94	130.67	54.74	1259.1	18372.3	-3.55	5.07	93.39	4.12	11.9	3.87	5.61E-05
12-Feb-90	0.15	0.69	0.00	75.85	130.67	54.82	1259.1	18368.8	-3.55	10.86			11.9	107.89	1.56E-03
13-Feb-90	0.18	0.69	0.00	75.79	130.67	54.88	1259.0	18365.2	-3.55	13.03			11.9	4.59	6.65E-05
14-Feb-90	0.15	0.69	0.00	75.79	130.67	54.87	1258.9	18361.7	-3.55	10.86			11.9	2.42	3.50E-05
15-Feb-90	0.15	0.69	0.00	75.80	130.66	54.86	1258.8	18358.1	-3.55	10.86			11.9	4.59	6.65E-05
16-Feb-90	0.17	0.69	0.00	75.83	130.66	54.83	1258.7	18354.6	-3.55	12.30			11.9	4.59	6.66E-05
17-Feb-90	0.16	0.69	0.47	75.84	130.66	54.82	1258.6	18351.0	-3.55	11.58	49.30	2.18	11.9	3.15	4.56E-05
18-Feb-90	0.17	0.69	0.13	75.84	130.65	54.81	1258.5	18347.5	-3.55	12.30	13.63	0.60	11.9	55.34	8.02E-04
19-Feb-90	0.00	0.69	0.01	75.91	130.65	54.75	1258.4	18343.9	-3.55	0.00	1.05	0.05	11.9	17.38	2.52E-04
20-Feb-90	0.16	0.69	0.15	75.91	130.65	54.74	1258.3	18340.4	-3.55	11.58	15.73	0.69	11.9	16.54	2.40E-04
21-Feb-90	0.05	0.69	0.00	75.91	130.65	54.74	1258.3	18336.8	-3.55	3.62			11.9	20.30	2.95E-04
22-Feb-90	0.02	0.69	0.00	75.96	130.64	54.68	1258.2	18333.3	-3.55	1.45			11.9	11.83	1.72E-04
23-Feb-90	0.18	0.69	1.07	76.06	130.64	54.58	1258.1	18329.7	-3.55	13.02	112.18	4.95	11.9	14.00	2.04E-04
24-Feb-90	0.14	0.69	0.14	76.00	130.64	54.64	1258.0	18326.2	-3.55	10.13	14.66	0.65	11.9	119.56	1.74E-03
25-Feb-90	0.18	0.69	0.00	75.94	130.64	54.70	1257.9	18322.6	-3.55	13.02			11.9	20.65	3.00E-04

SAND HILL LAKE DAILY WATER BUDGET:

											Runoff Coeff. = 0.01							
											Drain. Area (ac) = 5555							
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)			
26-Feb-90	0.21	0.69	0.00	75.90	130.63	54.73	1257.8	18319.1	-3.55	15.19			11.9	2.43	3.53E-05			
27-Feb-90	0.15	0.69	0.00	75.91	130.63	54.72	1257.7	18315.5	-3.55	10.85			11.9	0.26	3.77E-06			
28-Feb-90	0.16	0.69	0.00	75.97	130.63	54.66	1257.6	18312.0	-3.55	11.57			11.9	4.60	6.69E-05			
01-Mar-90	0.12	0.73	0.00	76.01	130.62	54.62	1257.6	18308.4	-3.55	9.18			11.9	3.88	5.64E-05			
02-Mar-90	0.18	0.73	0.00	76.10	130.62	54.52	1257.5	18304.9	-3.55	13.77			11.9	6.27	9.14E-05			
03-Mar-90	0.13	0.73	0.43	76.19	130.62	54.43	1257.4	18301.3	-3.55	9.94	45.06	1.99	11.9	1.68	2.45E-05			
04-Mar-90	0.18	0.73	0.00	76.14	130.62	54.47	1257.3	18297.8	-3.55	13.77			11.9	52.55	7.67E-04			
05-Mar-90	0.15	0.73	0.00	76.08	130.61	54.53	1257.2	18294.3	-3.55	11.47			11.9	1.68	2.45E-05			
06-Mar-90	0.18	0.73	0.00	76.05	130.61	54.56	1257.1	18290.7	-3.55	13.77			11.9	3.97	5.79E-05			
07-Mar-90	0.19	0.73	0.00	76.03	130.61	54.57	1257.0	18287.2	-3.55	14.53			11.9	1.68	2.45E-05			
08-Mar-90	0.16	0.73	0.04	76.00	130.60	54.60	1256.9	18283.6	-3.55	12.23	4.19	0.19	11.9	0.92	1.33E-05			
09-Mar-90	0.18	0.73	0.00	76.01	130.60	54.59	1256.9	18280.1	-3.55	13.76			11.9	7.59	1.11E-04			
10-Mar-90	0.17	0.73	0.00	75.99	130.60	54.61	1256.8	18276.5	-3.54	13.00			11.9	1.68	2.45E-05			
11-Mar-90	0.13	0.73	0.00	75.95	130.60	54.65	1256.7	18273.0	-3.54	9.94			11.9	2.45	3.56E-05			
12-Mar-90	0.22	0.73	0.00	75.95	130.59	54.65	1256.6	18269.4	-3.54	16.82			11.9	5.51	8.02E-05			
13-Mar-90	0.21	0.73	0.00	75.95	130.59	54.64	1256.5	18265.9	-3.54	16.05			11.9	-1.37				
14-Mar-90	0.23	0.73	0.00	75.95	130.59	54.64	1256.4	18262.3	-3.54	17.58			11.9	-0.61				
15-Mar-90	0.23	0.73	0.00	75.95	130.58	54.64	1256.3	18258.8	-3.54	17.58			11.9	-2.14				
16-Mar-90	0.19	0.73	0.00	75.95	130.58	54.64	1256.2	18255.3	-3.54	14.52			11.9	-2.13				
17-Mar-90	0.19	0.73	0.00	75.95	130.58	54.63	1256.1	18251.7	-3.54	14.52			11.9	0.92	1.35E-05			
18-Mar-90	0.14	0.73	0.58	75.94	130.58	54.64	1256.1	18248.2	-3.54	10.70	60.71	2.68	11.9	0.92	1.35E-05			
19-Mar-90	0.19	0.73	0.00	75.94	130.57	54.64	1256.0	18244.6	-3.54	14.52			11.9	68.14	9.93E-04			
20-Mar-90	0.20	0.73	0.00	75.92	130.57	54.65	1255.9	18241.1	-3.54	15.28			11.9	0.93	1.35E-05			
21-Mar-90	0.22	0.73	0.00	75.82	130.57	54.75	1255.8	18237.5	-3.54	16.81			11.9	0.16	2.36E-06			
22-Mar-90	0.18	0.73	0.00	75.75	130.56	54.82	1255.7	18234.0	-3.54	13.75			11.9	-1.36				
23-Mar-90	0.18	0.73	0.00	75.81	130.59	54.78	1256.5	18265.9	31.89	13.76			11.9	-33.74				
24-Mar-90	0.19	0.73	0.00	75.81	130.59	54.78	1256.4	18261.7	-4.19	14.52			11.9	2.33	3.38E-05			
25-Mar-90	0.20	0.73	0.00	75.79	130.58	54.79	1256.3	18257.5	-4.19	15.28			11.9	1.57	2.28E-05			
26-Mar-90	0.19	0.73	0.00	75.77	130.58	54.81	1256.2	18253.3	-4.19	14.52			11.9	0.80	1.17E-05			
27-Mar-90	0.20	0.73	0.00	75.78	130.58	54.80	1256.1	18249.1	-4.19	15.28			11.9	1.57	2.28E-05			
28-Mar-90	0.18	0.73	0.00	75.75	130.57	54.82	1256.0	18245.0	-4.19	13.75			11.9	0.80	1.17E-05			
29-Mar-90	0.22	0.73	1.09	75.75	130.57	54.82	1255.9	18240.8	-4.19	16.81	114.08	5.05	11.9	2.33	3.39E-05			
30-Mar-90	0.18	0.73	0.00	75.75	130.57	54.81	1255.8	18236.6	-4.19	13.75			11.9	118.40	1.72E-03			
31-Mar-90	0.24	0.73	1.48	75.82	130.56	54.75	1255.7	18232.4	-4.19	18.33	154.87	6.85	11.9	2.34	3.40E-05			
01-Apr-90	0.14	0.84	0.00	75.82	130.56	54.74	1255.6	18228.2	-4.19	12.30			11.9	159.47	2.32E-03			
02-Apr-90	0.17	0.84	0.00	75.79	130.55	54.76	1255.3	18217.2	-10.99	14.94			11.9	10.58	1.54E-04			
03-Apr-90	0.21	0.84	2.11	75.87	130.54	54.67	1255.0	18206.2	-10.98	18.45	220.67	9.77	11.9	7.94	1.16E-04			
04-Apr-90	0.29	0.84	0.00	75.87	130.53	54.67	1254.7	18195.3	-10.98	25.47			11.9	234.87	3.42E-03			
05-Apr-90	0.24	0.84	0.00	75.81	130.53	54.71	1254.5	18184.3	-10.98	21.08			11.9	-2.59				
06-Apr-90	0.21	0.84	0.00	75.81	130.52	54.71	1254.2	18173.3	-10.98	18.44			11.9	1.80	2.62E-05			
07-Apr-90	0.25	0.84	0.00	75.76	130.51	54.75	1253.9	18162.3	-10.97	21.94			11.9	4.44	6.46E-05			
08-Apr-90	0.21	0.84	0.00	75.64	130.50	54.86	1253.6	18151.4	-10.97	18.43			11.9	0.93	1.35E-05			
09-Apr-90	0.27	0.84	0.00	75.61	130.49	54.88	1253.4	18140.4	-10.97	23.69			11.9	4.44	6.45E-05			
10-Apr-90	0.21	0.84	0.00	75.63	130.48	54.85	1253.1	18129.4	-10.97	18.42			11.9	-0.82				
11-Apr-90	0.19	0.84	0.01	75.72	130.47	54.75	1252.8	18118.5	-10.96	16.66	1.04	0.05	11.9	4.44	6.48E-05			
12-Apr-90	0.21	0.84	0.00	75.68	130.46	54.78	1252.6	18107.5	-10.96	18.41			11.9	7.29	1.06E-04			
13-Apr-90	0.26	0.84	0.00	75.62	130.46	54.84	1252.3	18096.5	-10.96	22.79			11.9	4.45	6.47E-05			
14-Apr-90	0.25	0.84	0.00	75.60	130.45	54.85	1252.0	18085.6	-10.96	21.91			11.9	0.06	9.45E-07			
15-Apr-90	0.21	0.84	0.00	75.60	130.44	54.84	1251.7	18074.6	-10.95	18.40			11.9	0.94	1.37E-05			
16-Apr-90	0.16	0.84	0.00	75.60	130.43	54.83	1251.5	18063.7	-10.95	14.02			11.9	4.45	6.49E-05			
17-Apr-90	0.23	0.84	0.00	75.57	130.42	54.85	1251.2	18052.7	-10.95	20.14			11.9	8.83	1.29E-04			
18-Apr-90	0.23	0.84	0.00	75.50	130.42	54.92	1251.3	18058.1	5.36	20.15			11.9	-13.61				
19-Apr-90	0.27	0.84	0.00	75.47	130.43	54.96	1251.5	18063.5	5.36	23.65			11.9	-13.61				
20-Apr-90	0.18	0.84	0.00	75.44	130.43	54.99	1251.6	18068.8	5.36	15.77			11.9	-17.12				
21-Apr-90	0.27	0.84	0.00	75.48	130.44	54.96	1251.7	18074.2	5.36	23.66			11.9	-9.23				
22-Apr-90	0.16	0.84	0.00	75.53	130.44	54.91	1251.9	18079.6	5.36	14.02			11.9	-17.12				
23-Apr-90	0.21	0.84	0.50	75.54	130.45	54.91	1252.0	18084.9	5.37	18.40	52.17	2.31	11.9	-7.49				
24-Apr-90	0.12	0.84	0.12	75.55	130.45	54.90	1252.1	18090.3	5.37	10.52	12.52	0.56	11.9	42.61	6.20E-04			
25-Apr-90	0.27	0.84	0.00	75.52	130.45	54.93	1252.3	18095.7	5.37	23.67			11.9	9.09	1.32E-04			
26-Apr-90	0.27	0.84	0.00	75.50	130.46	54.96	1252.4	18101.0	5.37	23.67			11.9	-17.13				
27-Apr-90	0.28	0.84	0.00	75.48	130.46	54.99	1252.5	18106.4	5.37	24.55			11.9	-17.14				
28-Apr-90	0.31	0.84	0.00	75.51	130.47	54.96	1252.7	18111.8	5.37	27.18			11.9	-18.02				
29-Apr-90	0.17	0.84	0.93	75.54	130.47	54.93	1252.8	18117.1	5.37	14.91	97.09	4.31	11.9	-20.65				
30-Apr-90	0.23	0.84	0.00	75.48	130.48	54.99	1252.9	18122.5	5.37	20.17			11.9	93.02	1.35E-03			
01-May-90	0.28	0.82	0.00	75.48	130.48	55.00	1253.1	18127.9	5.37	23.98			11.9	-13.64				
02-May-90	0.29	0.82	0.00	75.41	130.48	55.06	1252.9	18122.1	-5.74	24.83			11.9	-6.33				
03-May-90	0.33	0.82	0.00	75.38	130.47	55.09	1252.8	18116.4	-5.74	28.25			11.9	-7.19				
04-May-90	0.27	0.82	0.00	75.34	130.47	55.13	1252.6	18110.6	-5.74	23.11			11.9	-10.61				
05-May-90	0.19	0.82	0.00	75.43	130.46	55.03	1252.5	18104.9	-5.74	16.26			11.9	-5.47				
06-May-90	0.30	0.82	0.00	75.40	130.46	55.06	1252.3	18099.2	-5.74	25.67			11.9	1.38	2.00E-05			

SAND HILL LAKE DAILY WATER BUDGET:

Date	Gaines Evap. (in)	Pan Coeff.	Gaines Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 5555		Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. (ac-ft)	Lake Precip. (ac-ft)				
07-May-90	0.17	0.82	0.00	75.31	130.45	55.14	1252.2	18093.4	-5.74	14.55			11.9	-8.03	
08-May-90	0.32	0.82	0.00	75.26	130.45	55.19	1252.1	18087.7	-5.74	27.38			11.9	3.09	4.48E-05
09-May-90	0.25	0.82	0.01	75.28	130.44	55.17	1251.9	18081.9	-5.74	21.39	1.04	0.05	11.9	-9.74	
10-May-90	0.10	0.82	0.53	75.38	130.44	55.06	1251.8	18076.2	-5.74	8.55	55.29	2.45	11.9	-2.66	
11-May-90	0.31	0.82	0.00	75.29	130.43	55.15	1251.6	18070.5	-5.74	26.51			11.9	66.82	9.68E-04
12-May-90	0.32	0.82	0.00	75.24	130.43	55.19	1251.5	18064.7	-5.74	27.37			11.9	-8.88	
13-May-90	0.27	0.82	0.00	75.21	130.43	55.21	1251.3	18059.0	-5.74	23.09			11.9	-9.73	
14-May-90	0.34	0.82	0.00	75.19	130.42	55.23	1251.2	18053.3	-5.74	29.07			11.9	-5.45	
15-May-90	0.32	0.82	1.34	75.17	130.42	55.24	1251.1	18047.5	-5.73	27.36	139.70	6.20	11.9	-11.44	
16-May-90	0.20	0.82	0.00	75.22	130.41	55.19	1250.9	18041.8	-5.73	17.10			11.9	136.18	1.97E-03
17-May-90	0.32	0.82	0.00	75.22	130.41	55.18	1250.8	18036.1	-5.73	27.35			11.9	0.54	7.78E-06
18-May-90	0.31	0.82	0.00	75.21	130.40	55.20	1250.6	18030.3	-5.73	26.49			11.9	-9.72	
19-May-90	0.31	0.82	0.00	75.18	130.40	55.22	1250.5	18024.6	-5.73	26.49			11.9	-8.86	
20-May-90	0.23	0.82	0.00	75.20	130.39	55.20	1250.3	18018.9	-5.73	19.65			11.9	-8.86	
21-May-90	0.33	0.82	0.00	75.17	130.39	55.21	1250.2	18013.1	-5.73	28.19			11.9	-2.02	
22-May-90	0.23	0.82	0.03	75.17	130.38	55.22	1250.0	18007.4	-5.73	19.65	3.13	0.14	11.9	-10.56	
23-May-90	0.16	0.82	0.00	75.17	130.38	55.21	1249.9	18001.7	-5.73	13.67			11.9	1.25	1.81E-05
24-May-90	0.26	0.82	0.00	75.10	130.37	55.27	1249.8	17995.9	-5.73	22.20			11.9	3.96	5.74E-05
25-May-90	0.30	0.82	0.00	75.02	130.37	55.35	1249.6	17990.2	-5.73	25.62			11.9	-4.58	
26-May-90	0.17	0.82	0.00	75.00	130.36	55.36	1249.3	17977.7	-12.49	14.51			11.9	-1.22	
27-May-90	0.29	0.82	0.00	75.02	130.35	55.33	1249.0	17965.2	-12.49	24.75			11.9	9.88	1.43E-04
28-May-90	0.33	0.82	1.27	75.02	130.34	55.32	1248.7	17952.7	-12.49	28.16	132.15	5.88	11.9	-0.36	
29-May-90	0.27	0.82	0.00	74.95	130.33	55.38	1248.4	17940.3	-12.49	23.03			11.9	134.26	1.94E-03
30-May-90	0.29	0.82	0.00	74.90	130.32	55.42	1248.1	17927.8	-12.48	24.73			11.9	1.35	1.95E-05
31-May-90	0.33	0.82	0.00	74.84	130.31	55.47	1247.7	17915.3	-12.48	28.14			11.9	-0.35	
01-Jun-90	0.28	0.85	0.00	74.78	130.30	55.52	1247.4	17902.8	-12.48	24.74			11.9	-3.76	
02-Jun-90	0.32	0.85	0.00	74.74	130.30	55.57	1247.5	17905.6	2.80	28.28			11.9	-15.64	
03-Jun-90	0.27	0.85	0.15	74.83	130.30	55.47	1247.6	17908.4	2.80	23.86	15.59	0.69	11.9	-19.18	
04-Jun-90	0.28	0.85	0.00	74.86	130.31	55.44	1247.6	17911.2	2.80	24.74			11.9	1.53	2.21E-05
05-Jun-90	0.04	0.85	1.15	74.92	130.31	55.39	1247.7	17914.0	2.80	3.54	119.57	5.32	11.9	-15.65	
06-Jun-90	0.20	0.85	0.00	74.89	130.31	55.42	1247.8	17916.8	2.80	17.68			11.9	130.46	1.89E-03
07-Jun-90	0.25	0.85	0.26	74.94	130.31	55.38	1247.9	17919.6	2.80	22.10	27.04	1.20	11.9	-8.58	
08-Jun-90	0.19	0.85	0.14	74.99	130.32	55.32	1247.9	17922.4	2.80	16.79	14.56	0.65	11.9	15.24	2.21E-04
09-Jun-90	0.17	0.85	0.03	74.98	130.32	55.34	1248.0	17925.2	2.80	15.03	3.12	0.14	11.9	7.51	1.09E-04
10-Jun-90	0.19	0.85	0.00	74.96	130.32	55.36	1248.1	17928.0	2.80	16.80			11.9	-2.67	
11-Jun-90	0.20	0.85	0.01	74.97	130.32	55.36	1248.1	17930.8	2.80	17.68	1.04	0.05	11.9	-7.70	
12-Jun-90	0.32	0.85	0.00	74.95	130.32	55.37	1248.2	17933.6	2.80	28.29			11.9	-7.50	
13-Jun-90	0.37	0.85	0.00	74.90	130.33	55.43	1248.3	17936.4	2.80	32.72			11.9	-19.19	
14-Jun-90	0.30	0.85	0.00	74.86	130.33	55.47	1248.3	17939.2	2.80	26.53			11.9	-23.62	
15-Jun-90	0.25	0.85	0.00	74.87	130.33	55.46	1248.4	17942.0	2.80	22.11			11.9	-17.43	
16-Jun-90	0.27	0.85	0.00	74.82	130.33	55.51	1248.5	17944.8	2.80	23.88			11.9	-13.01	
17-Jun-90	0.24	0.85	0.01	74.80	130.34	55.54	1248.6	17947.6	2.80	21.23	1.04	0.05	11.9	-14.78	
18-Jun-90	0.25	0.85	0.45	74.78	130.34	55.56	1248.6	17950.4	2.80	22.11	46.82	2.08	11.9	-11.04	
19-Jun-90	0.30	0.85	0.00	74.84	130.34	55.50	1248.7	17953.2	2.80	26.53			11.9	35.89	5.18E-04
20-Jun-90	0.30	0.85	0.00	74.74	130.34	55.61	1248.8	17956.1	2.80	26.54			11.9	-17.44	
21-Jun-90	0.32	0.85	0.00	74.69	130.34	55.66	1248.8	17958.9	2.80	28.31			11.9	-17.44	
22-Jun-90	0.31	0.85	0.01	74.72	130.35	55.63	1248.9	17961.7	2.80	27.42	1.04	0.05	11.9	-19.21	
23-Jun-90	0.16	0.85	2.86	74.89	130.35	55.46	1249.0	17964.5	2.80	14.16	297.67	13.24	11.9	-17.24	
24-Jun-90	0.13	0.85	0.64	75.00	130.35	55.35	1249.0	17967.3	2.80	11.50	66.62	2.96	11.9	305.85	4.42E-03
25-Jun-90	0.15	0.85	0.00	74.97	130.35	55.39	1249.1	17970.1	2.80	13.27			11.9	67.17	9.71E-04
26-Jun-90	0.26	0.85	0.00	74.93	130.36	55.43	1249.2	17972.9	2.80	23.01			11.9	-4.18	
27-Jun-90	0.10	0.85	3.26	74.91	130.36	55.45	1249.3	17975.7	2.80	8.85	339.38	15.09	11.9	-13.91	
28-Jun-90	0.16	0.85	0.00	74.89	130.36	55.47	1249.3	17978.5	2.80	14.16			11.9	354.72	5.12E-03
29-Jun-90	0.22	0.85	0.00	74.87	130.36	55.49	1249.4	17981.3	2.80	19.47			11.9	-5.06	
30-Jun-90	0.24	0.85	0.08	74.92	130.37	55.45	1249.5	17984.1	2.80	21.24	8.33	0.37	11.9	-10.37	
01-Jul-90	0.27	0.91	0.00	75.02	130.37	55.35	1249.5	17986.9	2.81	25.58			11.9	-3.45	
02-Jul-90	0.26	0.91	0.02	75.00	130.37	55.37	1249.6	17989.7	2.81	24.64	2.08	0.09	11.9	-16.49	
03-Jul-90	0.19	0.91	0.68	74.98	130.37	55.39	1249.7	17992.5	2.81	18.01	70.82	3.15	11.9	-13.37	
04-Jul-90	0.06	0.91	0.05	74.90	130.37	55.48	1249.7	17995.3	2.81	5.69	5.21	0.23	11.9	65.05	9.38E-04
05-Jul-90	0.18	0.91	0.00	74.88	130.38	55.50	1249.8	17998.1	2.81	17.06			11.9	8.85	1.28E-04
06-Jul-90	0.26	0.91	0.11	74.90	130.38	55.48	1249.9	18000.9	2.81	24.64	11.46	0.51	11.9	-7.97	
07-Jul-90	0.32	0.91	0.00	74.82	130.38	55.56	1250.0	18003.7	2.81	30.33			11.9	-3.58	
08-Jul-90	0.27	0.91	0.00	74.86	130.38	55.53	1250.0	18006.5	2.81	25.59			11.9	-21.24	
09-Jul-90	0.30	0.91	0.00	74.78	130.39	55.60	1250.1	18009.3	2.81	28.44			11.9	-16.50	
10-Jul-90	0.29	0.91	0.00	74.74	130.39	55.65	1250.2	18012.2	2.81	27.49			11.9	-19.35	
11-Jul-90	0.28	0.91	0.05	74.72	130.39	55.67	1250.2	18015.0	2.81	26.55	5.21	0.23	11.9	-18.40	
12-Jul-90	0.28	0.91	0.86	74.73	130.39	55.66	1250.3	18017.8	2.81	26.55	89.61	3.98	11.9	-12.01	
13-Jul-90	0.32	0.91	1.13	74.84	130.39	55.55	1250.4	18020.6	2.81	30.34	117.74	5.23	11.9	76.13	1.10E-03
14-Jul-90	0.10	0.91	2.47	74.89	130.40	55.51	1250.4	18023.4	2.81	9.48	257.38	11.43	11.9	101.73	1.47E-03
15-Jul-90	0.05	0.91	2.63	74.94	130.40	55.46	1250.5	18026.2	2.81	4.74	274.07	12.17	11.9	288.43	3.87E-03

SAND HILL LAKE DAILY WATER BUDGET:

														Runoff Coeff. = 0.01			
														Drain. Area (ac) = 5555			
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
16-Jul-90	0.20	0.91	0.00	74.86	130.40	55.54	1250.6	18029.0	2.81	18.97			11.9	290.60	4.18E-03		
17-Jul-90	0.21	0.91	0.18	74.85	130.40	55.56	1250.7	18031.8	2.81	19.92	18.76	0.83	11.9	-9.87			
18-Jul-90	0.22	0.91	0.00	74.82	130.41	55.58	1250.7	18034.6	2.81	20.87			11.9	8.77	1.26E-04		
19-Jul-90	0.18	0.91	0.01	74.87	130.41	55.54	1250.8	18037.4	2.81	17.07	1.04	0.05	11.9	-11.77			
20-Jul-90	0.27	0.91	1.32	74.89	130.41	55.52	1250.9	18040.2	2.81	25.61	137.60	6.11	11.9	-6.89			
21-Jul-90	0.22	0.91	0.53	74.92	130.41	55.49	1250.8	18039.2	-1.04	20.87	55.25	2.45	11.9	131.04	1.89E-03		
22-Jul-90	0.24	0.91	0.25	74.95	130.41	55.46	1250.8	18038.1	-1.04	22.76	26.06	1.16	11.9	49.77	7.18E-04		
23-Jul-90	0.24	0.91	0.00	74.96	130.41	55.45	1250.8	18037.1	-1.04	22.76			11.9	17.39	2.51E-04		
24-Jul-90	0.32	0.91	0.00	74.94	130.41	55.47	1250.8	18036.1	-1.04	30.35			11.9	-9.82			
25-Jul-90	0.30	0.91	0.00	74.90	130.41	55.50	1250.7	18035.0	-1.04	28.45			11.9	-17.41			
26-Jul-90	0.27	0.91	0.00	74.86	130.40	55.54	1250.7	18034.0	-1.04	25.61			11.9	-15.51			
27-Jul-90	0.31	0.91	0.00	74.86	130.40	55.54	1250.7	18032.9	-1.04	29.40			11.9	-12.67			
28-Jul-90	0.32	0.91	0.07	74.93	130.40	55.48	1250.7	18031.9	-1.04	30.35	7.30	0.32	11.9	-16.46			
29-Jul-90	0.12	0.91	0.00	75.00	130.40	55.40	1250.6	18030.8	-1.04	11.38			11.9	-9.79			
30-Jul-90	0.27	0.91	0.00	74.92	130.40	55.48	1250.6	18029.8	-1.04	25.61			11.9	1.56	2.25E-05		
31-Jul-90	0.28	0.91	0.00	74.88	130.40	55.52	1250.6	18028.8	-1.04	26.55			11.9	-12.66			
01-Aug-90	0.28	0.91	0.00	74.79	130.40	55.61	1250.6	18027.7	-1.04	26.55			11.9	-13.61			
02-Aug-90	0.29	0.91	0.00	74.77	130.39	55.62	1250.3	18018.8	-8.87	27.50			11.9	-5.78			
03-Aug-90	0.21	0.91	0.05	74.78	130.39	55.61	1250.1	18010.0	-8.87	19.91	5.21	0.23	11.9	-6.72			
04-Aug-90	0.16	0.91	0.36	74.74	130.38	55.64	1249.9	18001.1	-8.87	15.17	37.50	1.67	11.9	6.30	9.06E-05		
05-Aug-90	0.24	0.91	0.00	74.73	130.37	55.64	1249.7	17992.2	-8.87	22.74			11.9	44.77	6.44E-04		
06-Aug-90	0.31	0.91	0.00	74.67	130.36	55.69	1249.4	17983.4	-8.87	29.37			11.9	-1.98			
07-Aug-90	0.27	0.91	0.00	74.71	130.36	55.64	1249.2	17974.5	-8.87	25.58			11.9	-8.61			
08-Aug-90	0.15	0.91	2.35	74.71	130.35	55.64	1249.0	17965.6	-8.86	14.21	244.60	10.88	11.9	-4.81			
09-Aug-90	0.10	0.91	0.11	74.72	130.34	55.62	1248.8	17956.8	-8.86	9.47	11.45	0.51	11.9	262.03	3.77E-03		
10-Aug-90	0.06	0.91	0.09	74.72	130.34	55.62	1248.6	17947.9	-8.86	5.68	9.36	0.42	11.9	23.25	3.35E-04		
11-Aug-90	0.16	0.91	0.21	74.71	130.33	55.62	1248.3	17939.0	-8.86	15.15	21.85	0.97	11.9	24.86	3.58E-04		
12-Aug-90	0.17	0.91	0.03	74.71	130.32	55.62	1248.1	17930.2	-8.86	16.09	3.12	0.14	11.9	28.43	4.10E-04		
13-Aug-90	0.23	0.91	0.00	74.67	130.31	55.65	1247.9	17921.3	-8.86	21.77			11.9	7.93	1.14E-04		
14-Aug-90	0.20	0.91	0.67	74.65	130.31	55.66	1247.7	17912.5	-8.86	18.92	69.66	3.10	11.9	-1.01			
15-Aug-90	0.14	0.91	0.14	74.62	130.30	55.68	1247.5	17903.6	-8.85	13.24	14.55	0.65	11.9	74.59	1.07E-03		
16-Aug-90	0.18	0.91	0.01	74.63	130.29	55.67	1247.2	17894.8	-8.85	17.02	1.04	0.05	11.9	22.71	3.27E-04		
17-Aug-90	0.22	0.91	0.00	74.68	130.29	55.61	1247.0	17885.9	-8.85	20.80			11.9	4.81	6.94E-05		
18-Aug-90	0.26	0.91	0.50	74.73	130.28	55.55	1246.8	17877.1	-8.85	24.58	51.95	2.31	11.9	-0.06			
19-Aug-90	0.25	0.91	0.00	74.66	130.27	55.61	1246.6	17868.2	-8.85	23.63			11.9	50.43	7.27E-04		
20-Aug-90	0.28	0.91	0.00	74.63	130.27	55.64	1246.3	17859.4	-8.85	26.46			11.9	-2.89			
21-Aug-90	0.27	0.91	1.52	74.60	130.26	55.66	1246.1	17850.5	-8.84	25.51	157.84	7.04	11.9	-5.72			
22-Aug-90	0.26	0.91	0.05	74.61	130.25	55.64	1245.9	17841.7	-8.84	24.56	5.19	0.23	11.9	160.11	2.31E-03		
23-Aug-90	0.14	0.91	0.23	74.59	130.24	55.65	1245.7	17832.8	-8.84	13.22	23.88	1.06	11.9	1.60	2.31E-05		
24-Aug-90	0.10	0.91	0.00	74.55	130.24	55.68	1245.5	17824.0	-8.84	9.44			11.9	32.45	4.68E-04		
25-Aug-90	0.23	0.91	0.00	74.58	130.23	55.65	1245.2	17815.2	-8.84	21.72			11.9	11.29	1.63E-04		
26-Aug-90	0.19	0.91	0.00	74.62	130.22	55.60	1245.0	17806.3	-8.84	17.94			11.9	-0.98			
27-Aug-90	0.22	0.91	0.00	74.62	130.22	55.60	1244.8	17797.5	-8.83	20.77			11.9	2.80	4.04E-05		
28-Aug-90	0.34	0.91	1.35	74.62	130.21	55.59	1244.6	17788.7	-8.83	32.09	140.01	6.25	11.9	-0.03			
29-Aug-90	0.21	0.91	0.00	74.57	130.20	55.63	1244.3	17779.8	-8.83	19.82			11.9	134.91	1.95E-03		
30-Aug-90	0.26	0.91	0.00	74.51	130.19	55.68	1244.1	17771.0	-8.83	24.53			11.9	0.91	1.32E-05		
31-Aug-90	0.21	0.91	0.43	74.51	130.19	55.68	1243.9	17762.2	-8.83	19.81	44.57	1.99	11.9	-3.80			
01-Sep-90	0.13	0.85	0.00	74.50	130.18	55.68	1243.7	17753.3	-8.83	11.45			11.9	47.48	6.86E-04		
02-Sep-90	0.25	0.85	0.29	74.50	130.17	55.67	1243.2	17734.9	-18.45	22.02	30.04	1.34	11.9	18.90	2.73E-04		
03-Sep-90	0.17	0.85	0.11	74.49	130.15	55.66	1242.8	17716.5	-18.44	14.96	11.39	0.51	11.9	39.72	5.74E-04		
04-Sep-90	0.24	0.85	0.00	74.49	130.14	55.65	1242.3	17698.0	-18.44	21.12			11.9	27.27	3.95E-04		
05-Sep-90	0.18	0.85	0.00	74.48	130.12	55.64	1241.8	17679.6	-18.43	15.83			11.9	9.21	1.33E-04		
06-Sep-90	0.18	0.85	0.18	74.48	130.11	55.63	1241.4	17661.2	-18.42	15.83	18.62	0.83	11.9	14.49	2.10E-04		
07-Sep-90	0.21	0.85	0.00	74.47	130.09	55.62	1240.9	17642.7	-18.42	18.46			11.9	33.94	4.92E-04		
08-Sep-90	0.20	0.85	0.00	74.47	130.08	55.61	1240.4	17624.3	-18.41	17.57			11.9	11.85	1.72E-04		
09-Sep-90	0.23	0.85	0.00	74.46	130.06	55.60	1240.0	17605.9	-18.40	20.20			11.9	12.73	1.85E-04		
10-Sep-90	0.19	0.85	0.00	74.45	130.05	55.59	1239.5	17587.5	-18.40	16.68			11.9	10.10	1.47E-04		
11-Sep-90	0.15	0.85	0.00	74.45	130.03	55.58	1239.0	17569.1	-18.39	13.16			11.9	13.61	1.98E-04		
12-Sep-90	0.23	0.85	0.16	74.44	130.02	55.57	1238.6	17550.8	-18.38	20.18	16.51	0.74	11.9	17.12	2.49E-04		
13-Sep-90	0.26	0.85	0.00	74.44	130.00	55.56	1238.1	17532.4	-18.38	22.80			11.9	27.35	3.98E-04		
14-Sep-90	0.27	0.85	0.00	74.43	129.99	55.55	1237.6	17514.0	-18.37	23.67			11.9	7.47	1.09E-04		
15-Sep-90	0.21	0.85	0.00	74.43	129.97	55.55	1237.2	17495.7	-18.36	18.40			11.9	6.59	9.59E-05		
16-Sep-90	0.12	0.85	0.36	74.42	129.96	55.54	1236.7	17477.3	-18.35	10.51	37.10	1.67	11.9	11.85	1.73E-04		
17-Sep-90	0.20	0.85	0.22	74.42	129.94	55.53	1236.3	17459.0	-18.35	17.51	22.66	1.02	11.9	58.50	8.52E-04		
18-Sep-90	0.25	0.85	0.00	74.41	129.93	55.52	1235.8	17440.6	-18.34	21.88			11.9	36.41	5.31E-04		
19-Sep-90	0.26	0.85	0.00	74.40	129.91	55.51	1235.3	17422.3	-18.33	22.75			11.9	8.35	1.22E-04		
20-Sep-90	0.23	0.85	0.00	74.40	129.90	55.50	1234.9	17403.9	-18.33	20.12			11.9	7.48	1.09E-04		
21-Sep-90	0.23	0.85	0.00	74.39	129.88	55.49	1234.4	17385.6	-18.32	20.11			11.9	10.10	1.47E-04		
22-Sep-90	0.24	0.85	0.00	74.39	129.87	55.48	1233.9	17367.3	-18.31	20.98			11.9	10.10	1.48E-04		
23-Sep-90	0.26	0.85	0.00	74.38	129.85	55.47	1233.5	17349.0	-18.31	22.72			11.9	9.23	1.35E-04		

SAND HILL LAKE DAILY WATER BUDGET:

											Runoff Coeff. = 0.01							
											Drain. Area (ac) = 5555							
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. (ac-ft)	Lake Precip. (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)			
24-Sep-90	0.31	0.85	0.00	74.38	129.84	55.46	1233.0	17330.7	-18.30	27.07			11.9	7.48	1.09E-04			
25-Sep-90	0.23	0.85	0.00	74.37	129.82	55.45	1232.5	17312.4	-18.29	20.08			11.9	3.12	4.56E-05			
26-Sep-90	0.21	0.85	0.00	74.37	129.81	55.44	1232.1	17294.1	-18.29	18.33			11.9	10.11	1.48E-04			
27-Sep-90	0.17	0.85	0.00	74.36	129.79	55.43	1231.6	17275.9	-18.28	14.83			11.9	11.85	1.74E-04			
28-Sep-90	0.22	0.85	0.00	74.36	129.78	55.42	1231.2	17257.6	-18.27	19.19			11.9	15.34	2.25E-04			
29-Sep-90	0.13	0.85	0.68	74.35	129.76	55.41	1230.7	17239.3	-18.27	11.33	69.74	3.15	11.9	10.98	1.61E-04			
30-Sep-90	0.06	0.85	0.14	74.34	129.75	55.40	1230.2	17221.1	-18.26	5.23	14.35	0.65	11.9	91.71	1.35E-03			
01-Oct-90	0.10	0.76	0.00	74.34	129.72	55.38	1229.3	17184.6	-36.50	7.79			11.9	58.17	8.54E-04			
02-Oct-90	0.21	0.76	0.00	74.33	129.72	55.39	1229.3	17183.8	-0.79	16.35			11.9	4.91	7.21E-05			
03-Oct-90	0.24	0.76	0.00	74.33	129.72	55.39	1229.3	17183.0	-0.79	18.68			11.9	-3.66				
04-Oct-90	0.20	0.76	0.00	74.32	129.72	55.40	1229.2	17182.2	-0.79	15.57			11.9	-5.99				
05-Oct-90	0.16	0.76	0.00	74.32	129.72	55.40	1229.2	17181.4	-0.79	12.46			11.9	-2.88				
06-Oct-90	0.15	0.76	0.08	74.31	129.72	55.40	1229.2	17180.6	-0.79	11.68	8.19	0.37	11.9	0.24	3.48E-06			
07-Oct-90	0.18	0.76	0.00	74.31	129.72	55.41	1229.2	17179.8	-0.79	14.01			11.9	9.58	1.41E-04			
08-Oct-90	0.22	0.76	0.00	74.30	129.72	55.41	1229.2	17179.0	-0.79	17.13			11.9	-1.32				
09-Oct-90	0.21	0.76	0.00	74.30	129.71	55.42	1229.1	17178.2	-0.79	16.35			11.9	-4.43				
10-Oct-90	0.24	0.76	0.58	74.29	129.71	55.42	1229.1	17177.4	-0.79	18.68	59.41	2.68	11.9	-3.65				
11-Oct-90	0.18	0.76	1.68	74.28	129.71	55.43	1229.1	17176.6	-0.79	14.01	172.07	7.78	11.9	56.10	8.23E-04			
12-Oct-90	0.05	0.76	0.74	74.28	129.71	55.43	1229.1	17175.8	-0.79	3.89	75.79	3.43	11.9	178.53	2.62E-03			
13-Oct-90	0.13	0.76	0.00	74.27	129.71	55.44	1229.1	17175.0	-0.79	10.12			11.9	88.02	1.29E-03			
14-Oct-90	0.18	0.76	0.00	74.27	129.71	55.44	1229.0	17174.2	-0.79	14.01			11.9	2.57	3.78E-05			
15-Oct-90	0.19	0.76	0.00	74.26	129.71	55.45	1229.0	17173.5	-0.79	14.79			11.9	-1.32				
16-Oct-90	0.19	0.76	0.00	74.26	129.71	55.45	1229.0	17172.7	-0.79	14.79			11.9	-2.10				
17-Oct-90	0.16	0.76	0.00	74.25	129.71	55.46	1229.0	17171.9	-0.79	12.45			11.9	-2.10				
18-Oct-90	0.18	0.76	0.00	74.25	129.71	55.46	1229.0	17171.1	-0.79	14.01			11.9	0.24	3.51E-06			
19-Oct-90	0.09	0.76	0.12	74.24	129.71	55.47	1228.9	17170.3	-0.79	7.00	12.29	0.56	11.9	-1.32				
20-Oct-90	0.16	0.76	0.00	74.24	129.71	55.47	1228.9	17169.5	-0.79	12.45			11.9	18.53	2.72E-04			
21-Oct-90	0.13	0.76	0.00	74.23	129.71	55.48	1228.9	17168.7	-0.79	10.12			11.9	0.24	3.52E-06			
22-Oct-90	0.28	0.76	0.00	74.22	129.71	55.48	1228.9	17167.9	-0.79	21.79			11.9	2.57	3.78E-05			
23-Oct-90	0.05	0.76	0.31	74.22	129.71	55.49	1228.9	17167.1	-0.79	3.89	31.75	1.44	11.9	-9.10				
24-Oct-90	0.15	0.76	0.00	74.21	129.71	55.49	1228.8	17166.3	-0.79	11.67			11.9	41.98	6.16E-04			
25-Oct-90	0.11	0.76	0.00	74.21	129.70	55.50	1228.8	17165.5	-0.79	8.56			11.9	1.02	1.49E-05			
26-Oct-90	0.09	0.76	0.00	74.20	129.70	55.50	1228.8	17164.7	-0.79	7.00			11.9	4.13	6.06E-05			
27-Oct-90	0.11	0.76	0.00	74.20	129.70	55.51	1228.8	17163.9	-0.79	8.56			11.9	5.69	8.34E-05			
28-Oct-90	0.12	0.76	0.00	74.19	129.70	55.51	1228.8	17163.1	-0.79	9.34			11.9	4.13	6.06E-05			
29-Oct-90	0.11	0.76	0.00	74.19	129.70	55.52	1228.7	17162.4	-0.79	8.56			11.9	3.35	4.92E-05			
30-Oct-90	0.12	0.76	0.00	74.18	129.70	55.52	1228.7	17161.6	-0.79	9.34			11.9	4.13	6.06E-05			
31-Oct-90	0.11	0.76	0.00	74.18	129.70	55.53	1228.7	17160.8	-0.79	8.56			11.9	3.35	4.92E-05			
01-Nov-90	0.10	0.71	0.00	74.17	129.70	55.53	1228.7	17160.0	-0.79	7.27			11.9	4.13	6.06E-05			
02-Nov-90	0.15	0.71	0.00	74.16	129.69	55.53	1228.5	17152.1	-7.93	10.90			11.9	12.56	1.84E-04			
03-Nov-90	0.15	0.71	0.00	74.16	129.69	55.53	1228.3	17144.1	-7.93	10.90			11.9	8.92	1.31E-04			
04-Nov-90	0.13	0.71	0.00	74.15	129.68	55.53	1228.1	17136.2	-7.92	9.45			11.9	8.92	1.31E-04			
05-Nov-90	0.12	0.71	0.00	74.14	129.67	55.53	1227.9	17128.3	-7.92	8.72			11.9	10.38	1.52E-04			
06-Nov-90	0.15	0.71	0.00	74.13	129.67	55.54	1227.7	17120.4	-7.92	10.90			11.9	11.10	1.63E-04			
07-Nov-90	0.13	0.71	0.00	74.14	129.66	55.52	1227.5	17112.4	-7.92	9.44			11.9	8.92	1.31E-04			
08-Nov-90	0.12	0.71	0.00	74.13	129.65	55.52	1227.3	17104.5	-7.92	8.71			11.9	10.38	1.52E-04			
09-Nov-90	0.12	0.71	0.00	74.17	129.65	55.48	1227.1	17096.6	-7.92	8.71			11.9	11.10	1.63E-04			
10-Nov-90	0.12	0.71	0.77	74.17	129.64	55.47	1226.9	17088.7	-7.92	8.71	78.72	3.56	11.9	11.10	1.63E-04			
11-Nov-90	0.14	0.71	0.00	74.02	129.64	55.61	1226.7	17080.8	-7.91	10.16			11.9	93.39	1.37E-03			
12-Nov-90	0.13	0.71	0.00	74.00	129.63	55.63	1226.5	17072.9	-7.91	9.43			11.9	9.65	1.41E-04			
13-Nov-90	0.11	0.71	0.00	73.97	129.62	55.65	1226.3	17064.9	-7.91	7.98			11.9	10.38	1.52E-04			
14-Nov-90	0.13	0.71	0.00	73.90	129.62	55.71	1226.1	17057.0	-7.91	9.43			11.9	11.83	1.73E-04			
15-Nov-90	0.15	0.71	0.00	73.93	129.61	55.68	1225.9	17049.1	-7.91	10.88			11.9	10.38	1.52E-04			
16-Nov-90	0.12	0.71	0.00	73.98	129.60	55.62	1225.6	17041.2	-7.91	8.70			11.9	8.93	1.31E-04			
17-Nov-90	0.10	0.71	0.00	74.04	129.60	55.56	1225.4	17033.3	-7.91	7.25			11.9	11.10	1.63E-04			
18-Nov-90	0.16	0.71	0.00	73.99	129.59	55.60	1225.2	17025.4	-7.91	11.60			11.9	12.55	1.84E-04			
19-Nov-90	0.13	0.71	0.00	73.97	129.58	55.62	1225.0	17017.5	-7.90	9.42			11.9	8.21	1.20E-04			
20-Nov-90	0.09	0.71	0.00	73.93	129.58	55.64	1224.8	17009.6	-7.90	6.52			11.9	10.38	1.52E-04			
21-Nov-90	0.09	0.71	0.00	73.93	129.57	55.64	1224.6	17001.7	-7.90	6.52			11.9	13.28	1.95E-04			
22-Nov-90	0.10	0.71	0.00	73.94	129.56	55.62	1224.4	16993.8	-7.90	7.24			11.9	13.28	1.95E-04			
23-Nov-90	0.10	0.71	0.00	73.99	129.56	55.57	1224.2	16985.9	-7.90	7.24			11.9	12.55	1.85E-04			
24-Nov-90	0.05	0.71	0.14	73.94	129.55	55.61	1224.0	16978.0	-7.90	3.62	14.28	0.65	11.9	12.55	1.84E-04			
25-Nov-90	0.10	0.71	0.00	73.89	129.55	55.65	1223.8	16970.1	-7.90	7.24			11.9	31.10	4.57E-04			
26-Nov-90	0.10	0.71	0.00	73.88	129.54	55.66	1223.6	16962.2	-7.90	7.24			11.9	12.55	1.84E-04			
27-Nov-90	0.08	0.71	0.00	73.88	129.53	55.65	1223.4	16954.3	-7.89	5.79			11.9	12.55	1.84E-04			
28-Nov-90	0.06	0.71	0.16	73.89	129.53	55.64	1223.2	16946.4	-7.89	4.34	16.31	0.74	11.9	14.00	2.06E-04			
29-Nov-90	0.07	0.71	0.00	73.87	129.52	55.65	1223.0	16938.5	-7.89	5.07			11.9	32.50	4.78E-04			
30-Nov-90	0.19	0.71	0.00	73.79	129.51	55.72	1222.8	16930.6	-7.89	13.75			11.9	14.72	2.16E-04			
01-Dec-90	0.13	0.83	0.00	73.76	129.51	55.75	1222.6	16922.8	-7.89	10.99			11.9	6.04	8.86E-05			
02-Dec-90	0.08	0.83	0.00	73.77	129.50	55.73	1222.4	16914.9	-7.89	6.76			11.9	8.79	1.29E-04			

SAND HILL LAKE DAILY WATER BUDGET:

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 5555		Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)				
03-Dec-90	0.11	0.83	0.00	73.85	129.50	55.65	1222.4	16914.9	0.00	9.30		11.9	5.14	7.55E-05	
04-Dec-90	0.12	0.83	0.28	73.86	129.50	55.63	1222.3	16911.4	-3.49	10.15	28.52	11.9	6.09	8.96E-05	
05-Dec-90	0.09	0.83	0.00	73.81	129.49	55.69	1222.2	16907.9	-3.49	7.61		11.9	35.06	5.15E-04	
06-Dec-90	0.09	0.83	0.00	73.88	129.49	55.61	1222.2	16904.4	-3.49	7.61		11.9	7.78	1.15E-04	
07-Dec-90	0.04	0.83	0.00	73.94	129.49	55.55	1222.1	16900.9	-3.49	3.38		11.9	7.78	1.15E-04	
08-Dec-90	0.05	0.83	1.04	73.89	129.49	55.59	1222.0	16897.4	-3.49	4.23	105.90	11.9	12.01	1.77E-04	
09-Dec-90	0.04	0.83	0.00	73.78	129.48	55.70	1221.9	16893.9	-3.49	3.38		11.9	121.88	1.79E-03	
10-Dec-90	0.12	0.83	0.00	73.77	129.48	55.71	1221.8	16890.4	-3.49	10.14		11.9	12.01	1.76E-04	
11-Dec-90	0.12	0.83	0.00	73.81	129.48	55.67	1221.7	16886.9	-3.49	10.14		11.9	5.25	7.72E-05	
12-Dec-90	0.08	0.83	0.00	73.78	129.47	55.69	1221.6	16883.4	-3.49	6.76		11.9	5.25	7.72E-05	
13-Dec-90	0.04	0.83	0.00	73.79	129.47	55.68	1221.5	16880.0	-3.49	3.38		11.9	8.63	1.27E-04	
14-Dec-90	0.08	0.83	0.00	73.76	129.47	55.71	1221.4	16876.5	-3.49	6.76		11.9	12.01	1.77E-04	
15-Dec-90	0.05	0.83	0.00	73.78	129.47	55.68	1221.4	16873.0	-3.49	4.22		11.9	8.63	1.27E-04	
16-Dec-90	0.04	0.83	0.00	73.84	129.46	55.62	1221.3	16869.5	-3.49	3.38		11.9	11.17	1.64E-04	
17-Dec-90	0.08	0.83	0.00	73.86	129.46	55.60	1221.2	16866.0	-3.49	6.76		11.9	12.01	1.77E-04	
18-Dec-90	0.08	0.83	0.00	73.90	129.46	55.55	1221.1	16862.5	-3.49	6.76		11.9	8.63	1.27E-04	
19-Dec-90	0.08	0.83	0.00	73.83	129.45	55.62	1221.0	16859.0	-3.49	6.76		11.9	8.63	1.27E-04	
20-Dec-90	0.06	0.83	0.00	73.74	129.45	55.72	1220.9	16855.5	-3.49	5.07		11.9	8.63	1.27E-04	
21-Dec-90	0.09	0.83	0.00	73.71	129.45	55.74	1220.8	16852.0	-3.49	7.60		11.9	10.32	1.52E-04	
22-Dec-90	0.09	0.83	0.00	73.76	129.45	55.69	1220.7	16848.6	-3.49	7.60		11.9	7.79	1.15E-04	
23-Dec-90	0.10	0.83	0.00	73.79	129.44	55.65	1220.6	16845.1	-3.49	8.44		11.9	7.79	1.15E-04	
24-Dec-90	0.11	0.83	0.07	73.81	129.44	55.63	1220.5	16841.6	-3.49	9.29	7.12	0.32	11.9	6.94	1.02E-04
25-Dec-90	0.16	0.83	0.00	73.75	129.44	55.69	1220.5	16838.1	-3.49	13.51		11.9	13.54	1.99E-04	
26-Dec-90	0.06	0.83	0.00	73.73	129.43	55.71	1220.4	16834.6	-3.49	5.06		11.9	1.88	2.77E-05	
27-Dec-90	0.10	0.83	0.00	73.71	129.43	55.72	1220.3	16831.1	-3.49	8.44		11.9	10.32	1.52E-04	
28-Dec-90	0.08	0.83	0.00	73.73	129.43	55.70	1220.2	16827.6	-3.49	6.75		11.9	6.95	1.02E-04	
29-Dec-90	0.02	0.83	0.00	73.75	129.43	55.67	1220.1	16824.1	-3.49	1.69		11.9	8.63	1.27E-04	
30-Dec-90	0.07	0.83	0.00	73.79	129.42	55.63	1220.0	16820.7	-3.49	5.91		11.9	13.70	2.02E-04	
31-Dec-90	0.07	0.83	0.00	73.78	129.42	55.64	1219.9	16817.2	-3.49	5.91		11.9	9.48	1.40E-04	
01-Jan-91	0.04	0.77	0.00	73.79	129.42	55.63	1219.8	16813.7	-3.49	3.13		11.9	9.48	1.40E-04	
02-Jan-91	0.01	0.77	0.00	73.79	129.42	55.63	1219.9	16817.2	3.49	0.78		11.9	5.28	7.79E-05	
03-Jan-91	0.06	0.77	0.00	73.77	129.43	55.66	1220.2	16826.7	9.56	4.70		11.9	1.55	2.29E-05	
04-Jan-91	0.06	0.77	0.00	73.74	129.44	55.70	1220.4	16836.3	9.56	4.70		11.9	-2.36		
05-Jan-91	0.05	0.77	0.00	73.70	129.44	55.74	1220.7	16845.9	9.57	3.92		11.9	-2.37		
06-Jan-91	0.04	0.77	0.00	73.70	129.45	55.75	1220.9	16855.4	9.57	3.13		11.9	-1.58		
07-Jan-91	0.05	0.77	0.00	73.74	129.46	55.72	1221.1	16865.0	9.57	3.92		11.9	-0.80		
08-Jan-91	0.06	0.77	0.00	73.71	129.47	55.76	1221.4	16874.6	9.57	4.70		11.9	-1.59		
09-Jan-91	0.06	0.77	0.00	73.62	129.47	55.85	1221.6	16884.1	9.57	4.70		11.9	-2.38		
10-Jan-91	0.12	0.77	0.00	73.66	129.48	55.83	1221.9	16893.7	9.58	9.41		11.9	-2.38		
11-Jan-91	0.07	0.77	0.13	73.77	129.49	55.72	1222.1	16903.3	9.58	5.49	13.24	0.60	11.9	-7.09	
12-Jan-91	0.16	0.77	2.07	73.87	129.50	55.63	1222.4	16912.9	9.58	12.55	210.86	9.58	11.9	10.67	1.57E-04
13-Jan-91	0.21	0.77	0.00	73.78	129.51	55.72	1222.6	16922.5	9.58	16.47		11.9	210.21	3.09E-03	
14-Jan-91	0.10	0.77	0.00	73.74	129.51	55.78	1222.9	16932.0	9.58	7.85		11.9	-14.16		
15-Jan-91	0.09	0.77	0.00	73.77	129.52	55.75	1223.1	16941.6	9.59	7.06		11.9	-5.53		
16-Jan-91	0.02	0.77	0.17	73.77	129.53	55.75	1223.4	16951.2	9.59	1.57	17.33	0.79	11.9	-4.75	
17-Jan-91	0.10	0.77	0.10	73.66	129.54	55.87	1223.6	16960.8	9.59	7.85	10.20	0.46	11.9	18.86	2.76E-04
18-Jan-91	0.09	0.77	0.00	73.62	129.55	55.93	1223.8	16970.4	9.59	7.07		11.9	5.12	7.48E-05	
19-Jan-91	0.08	0.77	0.11	73.70	129.55	55.86	1224.1	16980.0	9.59	6.28	11.22	0.51	11.9	-4.76	
20-Jan-91	0.15	0.77	1.26	73.74	129.56	55.82	1224.3	16989.6	9.60	11.78	128.55	5.83	11.9	7.75	1.13E-04
21-Jan-91	0.13	0.77	0.00	73.67	129.57	55.90	1224.6	16999.2	9.60	10.22		11.9	124.91	1.82E-03	
22-Jan-91	0.07	0.77	0.00	73.62	129.58	55.95	1224.8	17008.8	9.60	5.50		11.9	-7.91		
23-Jan-91	0.15	0.77	0.00	73.58	129.58	56.01	1225.1	17018.4	9.60	11.79		11.9	-3.20		
24-Jan-91	0.06	0.77	0.00	73.66	129.59	55.93	1225.3	17028.0	9.60	4.72		11.9	-9.49		
25-Jan-91	0.10	0.77	1.12	73.65	129.60	55.95	1225.6	17037.6	9.60	7.86	114.39	5.18	11.9	-2.42	
26-Jan-91	0.05	0.77	0.06	73.62	129.61	55.99	1225.8	17047.2	9.61	3.93	6.13	0.28	11.9	114.00	1.66E-03
27-Jan-91	0.05	0.77	0.00	73.66	129.62	55.96	1226.0	17056.8	9.61	3.93		11.9	4.77	6.95E-05	
28-Jan-91	0.06	0.77	0.80	73.73	129.62	55.90	1226.3	17066.4	9.61	4.72	81.75	3.70	11.9	-1.64	
29-Jan-91	0.02	0.77	0.05	73.72	129.63	55.91	1226.5	17076.0	9.61	1.57	5.11	0.23	11.9	83.02	1.21E-03
30-Jan-91	0.02	0.77	0.40	73.74	129.64	55.90	1226.8	17085.6	9.61	1.57	40.89	1.85	11.9	6.05	8.83E-05
31-Jan-91	0.15	0.77	0.52	73.70	129.65	55.94	1227.0	17095.3	9.62	11.81	53.17	2.41	11.9	43.45	6.33E-04
01-Feb-91	0.08	0.69	0.05	73.62	129.66	56.04	1227.3	17104.9	9.62	5.65	5.11	0.23	11.9	46.05	6.70E-04
02-Feb-91	0.11	0.69	0.15	73.62	129.66	56.04	1227.5	17114.5	9.62	7.76	15.34	0.69	11.9	1.98	2.88E-05
03-Feb-91	0.02	0.69	0.01	73.68	129.67	55.99	1227.8	17124.1	9.62	1.41	1.02	0.05	11.9	10.55	1.53E-04
04-Feb-91	0.14	0.69	0.00	73.69	129.68	55.99	1228.0	17133.7	9.62	9.89		11.9	1.93	2.81E-05	
05-Feb-91	0.15	0.69	0.00	73.74	129.69	55.94	1228.3	17143.4	9.63	10.59		11.9	-7.61		
06-Feb-91	0.12	0.69	0.00	73.76	129.69	55.94	1228.5	17153.0	9.63	8.48		11.9	-8.32		
07-Feb-91	0.02	0.69	0.12	73.83	129.70	55.87	1228.7	17162.6	9.63	1.41	12.29	0.56	11.9	-6.21	
08-Feb-91	0.05	0.69	0.01	73.85	129.71	55.86	1229.0	17172.3	9.63	3.53	1.02	0.05	11.9	13.70	2.00E-04
09-Feb-91	0.05	0.69	0.00	73.84	129.70	55.86	1228.8	17163.5	-8.78	3.53		11.9	18.21	2.65E-04	
10-Feb-91	0.12	0.69	0.00	73.88	129.70	55.82	1228.5	17154.7	-8.78	8.48		11.9	17.14	2.50E-04	

SAND HILL LAKE DAILY WATER BUDGET:

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 5555		Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)				
11-Feb-91	0.16	0.69	0.00	73.82	129.69	55.87	1228.3	17145.9	-8.77	11.30		11.9	12.20	1.78E-04	
12-Feb-91	0.13	0.69	0.00	73.74	129.68	55.95	1228.1	17137.2	-8.77	9.18		11.9	9.37	1.36E-04	
13-Feb-91	0.12	0.69	0.00	73.80	129.67	55.88	1227.9	17128.4	-8.77	8.47		11.9	11.49	1.67E-04	
14-Feb-91	0.15	0.69	0.31	73.93	129.67	55.74	1227.6	17119.6	-8.77	10.59	31.71	11.9	12.20	1.78E-04	
15-Feb-91	0.19	0.69	0.01	73.81	129.66	55.85	1227.4	17110.9	-8.77	13.41	1.02	0.05	11.9	43.23	6.31E-04
16-Feb-91	0.19	0.69	0.00	73.53	129.65	56.12	1227.2	17102.1	-8.77	13.41		11.9	8.33	1.21E-04	
17-Feb-91	0.10	0.69	0.00	73.55	129.65	56.09	1227.0	17093.3	-8.77	7.06		11.9	7.26	1.05E-04	
18-Feb-91	0.08	0.69	0.00	73.62	129.64	56.02	1226.8	17084.6	-8.76	5.64		11.9	13.61	1.98E-04	
19-Feb-91	0.16	0.69	0.00	73.62	129.63	56.02	1226.5	17075.8	-8.76	11.28		11.9	15.02	2.19E-04	
20-Feb-91	0.17	0.69	0.00	73.61	129.62	56.02	1226.3	17067.0	-8.76	11.99		11.9	9.38	1.36E-04	
21-Feb-91	0.19	0.69	0.00	73.61	129.62	56.01	1226.1	17058.3	-8.76	13.39		11.9	8.67	1.26E-04	
22-Feb-91	0.12	0.69	0.00	73.67	129.61	55.94	1225.9	17049.5	-8.76	8.46		11.9	7.26	1.06E-04	
23-Feb-91	0.11	0.69	0.00	73.71	129.60	55.89	1225.6	17040.8	-8.76	7.75		11.9	12.20	1.78E-04	
24-Feb-91	0.18	0.69	0.00	73.73	129.60	55.87	1225.4	17032.0	-8.75	12.68		11.9	12.90	1.88E-04	
25-Feb-91	0.10	0.69	0.00	73.74	129.59	55.85	1225.2	17023.3	-8.75	7.04		11.9	7.97	1.16E-04	
26-Feb-91	0.07	0.69	0.00	73.70	129.58	55.88	1225.0	17014.5	-8.75	4.93		11.9	13.61	1.99E-04	
27-Feb-91	0.20	0.69	0.00	73.59	129.57	55.98	1224.7	17005.8	-8.75	14.08		11.9	15.72	2.29E-04	
28-Feb-91	0.13	0.69	0.00	73.58	129.57	55.98	1224.5	16997.0	-8.75	9.15		11.9	6.56	9.57E-05	
01-Mar-91	0.04	0.73	0.00	73.67	129.56	55.89	1224.3	16988.3	-8.75	2.98		11.9	11.49	1.68E-04	
02-Mar-91	0.11	0.73	0.00	73.78	129.56	55.78	1224.3	16990.1	1.80	8.19		11.9	7.12	1.04E-04	
03-Mar-91	0.01	0.73	5.15	74.05	129.56	55.52	1224.4	16991.9	1.80	0.74	525.47	23.84	11.9	1.91	2.80E-05
04-Mar-91	0.22	0.73	0.00	73.96	129.56	55.61	1224.4	16993.7	1.80	16.39		11.9	558.66	8.21E-03	
05-Mar-91	0.06	0.73	0.00	73.90	129.57	55.66	1224.5	16995.5	1.80	4.47		11.9	-6.29		
06-Mar-91	0.15	0.73	0.00	73.93	129.57	55.63	1224.5	16997.3	1.80	11.17		11.9	5.63	8.26E-05	
07-Mar-91	0.18	0.73	0.00	73.97	129.57	55.60	1224.6	16999.1	1.80	13.41		11.9	-1.07		
08-Mar-91	0.16	0.73	0.00	74.01	129.57	55.56	1224.6	17000.9	1.80	11.92		11.9	-3.31		
09-Mar-91	0.12	0.73	0.27	74.07	129.57	55.50	1224.7	17002.7	1.80	8.94	27.55	1.25	11.9	-1.82	
10-Mar-91	0.10	0.73	0.00	74.05	129.57	55.52	1224.7	17004.5	1.80	7.45		11.9	29.96	4.41E-04	
11-Mar-91	0.21	0.73	0.00	74.04	129.57	55.54	1224.8	17006.3	1.80	15.65		11.9	2.65	3.89E-05	
12-Mar-91	0.14	0.73	0.00	74.09	129.58	55.49	1224.8	17008.1	1.80	10.43		11.9	-5.55		
13-Mar-91	0.15	0.73	0.00	74.17	129.58	55.41	1224.8	17009.9	1.80	11.18		11.9	-0.33		
14-Mar-91	0.10	0.73	0.04	74.16	129.58	55.41	1224.9	17011.7	1.80	7.45	4.08	0.19	11.9	-1.08	
15-Mar-91	0.26	0.73	0.09	74.05	129.58	55.53	1224.9	17013.5	1.80	19.37	9.19	0.42	11.9	6.92	1.02E-04
16-Mar-91	0.12	0.73	0.35	74.03	129.58	55.55	1225.0	17015.3	1.80	8.94	35.73	1.62	11.9	0.33	4.82E-06
17-Mar-91	0.14	0.73	0.63	74.22	129.58	55.36	1225.0	17017.1	1.80	10.43	64.31	2.92	11.9	38.51	5.68E-04
18-Mar-91	0.01	0.73	2.80	74.43	129.58	55.16	1225.1	17018.9	1.80	0.75	285.85	12.96	11.9	66.90	9.90E-04
19-Mar-91	0.12	0.73	0.00	74.37	129.59	55.22	1225.1	17020.7	1.80	8.94		11.9	308.17	4.56E-03	
20-Mar-91	0.18	0.73	0.00	74.34	129.59	55.25	1225.2	17022.5	1.80	13.42		11.9	1.15	1.71E-05	
21-Mar-91	0.17	0.73	0.00	74.39	129.59	55.20	1225.2	17024.3	1.80	12.67		11.9	-3.32		
22-Mar-91	0.20	0.73	0.00	74.42	129.59	55.17	1225.3	17026.1	1.80	14.91		11.9	-2.57		
23-Mar-91	0.18	0.73	0.00	74.40	129.59	55.19	1225.3	17027.9	1.80	13.42		11.9	-4.81		
24-Mar-91	0.17	0.73	0.00	74.47	129.59	55.13	1225.4	17029.7	1.80	12.67		11.9	-3.32		
25-Mar-91	0.16	0.73	0.00	74.51	129.60	55.09	1225.4	17031.5	1.80	11.93		11.9	-2.57		
26-Mar-91	0.13	0.73	0.00	74.53	129.60	55.07	1225.4	17033.3	1.80	9.69		11.9	-1.83		
27-Mar-91	0.19	0.73	0.00	74.56	129.60	55.04	1225.5	17035.1	1.80	14.16		11.9	0.41	6.03E-06	
28-Mar-91	0.23	0.73	0.00	74.64	129.60	54.96	1225.5	17036.9	1.80	17.15		11.9	-4.07		
29-Mar-91	0.18	0.73	0.00	74.73	129.60	54.87	1225.6	17038.7	1.80	13.42		11.9	-7.05		
30-Mar-91	0.28	0.73	0.86	74.78	129.60	54.82	1225.6	17040.5	1.80	20.88	87.84	3.98	11.9	-3.32	
31-Mar-91	0.09	0.73	0.00	74.77	129.60	54.84	1225.7	17042.3	1.80	6.71		11.9	81.04	1.21E-03	
01-Apr-91	0.14	0.84	0.00	74.71	129.61	54.90	1225.7	17044.1	1.80	12.01		11.9	3.39	5.03E-05	
02-Apr-91	0.20	0.84	0.00	74.69	129.61	54.92	1225.8	17045.9	1.80	17.16		11.9	-1.91		
03-Apr-91	0.23	0.84	0.00	74.66	129.61	54.95	1225.8	17047.7	1.80	19.74		11.9	-7.06		
04-Apr-91	0.20	0.84	0.00	74.66	129.61	54.95	1225.9	17049.5	1.80	17.16		11.9	-9.64		
05-Apr-91	0.18	0.84	0.01	74.78	129.59	54.81	1225.2	17025.0	-24.51	15.44	1.02	0.05	11.9	19.25	2.87E-04
06-Apr-91	0.12	0.84	0.00	74.91	129.57	54.66	1224.6	17000.5	-24.50	10.29		11.9	22.03	3.29E-04	
07-Apr-91	0.18	0.84	0.00	74.99	129.58	54.59	1224.9	17012.8	12.25	15.43		11.9	-10.63		
08-Apr-91	0.18	0.84	0.01	75.02	129.58	54.56	1224.9	17012.8	0.00	15.43	1.02	0.05	11.9	-3.53	
09-Apr-91	0.19	0.84	0.47	75.07	129.61	54.54	1225.9	17049.5	36.76	16.30	48.01	2.18	11.9	-39.23	
10-Apr-91	0.13	0.84	0.53	75.14	129.64	54.50	1226.8	17086.3	36.79	11.16	54.18	2.45	11.9	8.99	1.35E-04
11-Apr-91	0.17	0.84	0.10	75.13	129.65	54.52	1227.1	17098.6	12.27	14.60	10.23	0.46	11.9	45.10	6.74E-04
12-Apr-91	0.21	0.84	0.00	75.06	129.65	54.59	1227.1	17098.6	0.00	18.04		11.9	7.99	1.19E-04	
13-Apr-91	0.23	0.84	0.00	75.06	129.65	54.59	1227.1	17098.6	0.00	19.76		11.9	-6.14		
14-Apr-91	0.20	0.84	0.00	75.13	129.64	54.51	1226.8	17086.3	-12.27	17.18		11.9	4.41	6.60E-05	
15-Apr-91	0.25	0.84	0.01	75.14	129.62	54.48	1226.2	17061.8	-24.53	21.46	1.02	0.05	11.9	19.25	2.88E-04
16-Apr-91	0.17	0.84	0.00	75.10	129.62	54.52	1226.2	17061.8	0.00	14.59		11.9	-8.49		
17-Apr-91	0.20	0.84	0.00	75.11	129.67	54.56	1227.7	17123.1	61.35	17.19		11.9	-64.04		
18-Apr-91	0.10	0.84	0.64	75.20	129.75	54.55	1230.2	17221.5	98.32	8.61	65.61	2.96	11.9	-103.61	
19-Apr-91	0.15	0.84	0.00	75.21	129.75	54.54	1230.2	17221.5	0.00	12.92		11.9	71.86	1.07E-03	
20-Apr-91	0.11	0.84	1.30	75.23	129.87	54.64	1234.0	17369.3	147.86	9.50	133.68	6.02	11.9	-148.87	
21-Apr-91	0.05	0.84	1.48	75.23	129.88	54.65	1234.3	17381.6	12.34	4.32	152.23	6.85	11.9	129.76	1.92E-03

SAND HILL LAKE DAILY WATER BUDGET:

															Runoff Coeff. = 0.01	
															Drain. Area (ac) = 5555	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
22-Apr-91	0.23	0.84	0.00	75.17	129.87	54.70	1234.0	17369.3	-12.34	19.87			11.9	179.00	2.65E-03	
23-Apr-91	0.19	0.84	0.00	75.19	130.01	54.82	1238.4	17542.4	173.07	16.47			11.9	-181.03		
24-Apr-91	0.02	0.84	0.26	75.16	130.10	54.94	1241.2	17654.0	111.58	1.74	26.89	1.20	11.9	-116.15		
25-Apr-91	0.20	0.84	0.00	75.09	130.14	55.05	1242.4	17703.6	49.67	17.39			11.9	-11.41		
26-Apr-91	0.10	0.84	1.11	75.13	130.19	55.06	1244.0	17765.8	62.16	8.71	115.07	5.14	11.9	-67.66		
27-Apr-91	0.07	0.84	0.03	75.26	130.20	54.94	1244.3	17778.2	12.44	6.10	3.11	0.14	11.9	110.96	1.62E-03	
28-Apr-91	0.22	0.84	0.00	75.37	130.21	54.84	1244.6	17790.7	12.44	19.17			11.9	-3.39		
29-Apr-91	0.25	0.84	0.00	75.36	130.22	54.86	1244.9	17803.1	12.45	21.79			11.9	-19.71		
30-Apr-91	0.24	0.84	0.00	75.27	130.24	54.97	1245.6	17828.0	24.91	20.93			11.9	-34.79		
01-May-91	0.24	0.82	0.00	75.26	130.24	54.98	1245.6	17828.0	0.00	20.43			11.9	-9.03		
02-May-91	0.24	0.82	0.36	75.29	130.30	55.01	1247.4	17902.8	74.79	20.46	37.42	1.67	11.9	-83.32		
03-May-91	0.22	0.82	0.00	75.31	130.30	54.99	1247.4	17902.8	0.00	18.75			11.9	30.53	4.45E-04	
04-May-91	0.22	0.82	0.00	75.31	130.30	54.99	1247.4	17902.8	0.00	18.75			11.9	-6.85		
05-May-91	0.18	0.82	0.00	75.29	130.30	55.01	1247.4	17902.8	0.00	15.34			11.9	-6.85		
06-May-91	0.24	0.82	0.00	75.28	130.30	55.02	1247.4	17902.8	0.00	20.46			11.9	-3.44		
07-May-91	0.14	0.82	0.11	75.22	130.31	55.09	1247.7	17915.3	12.48	11.94	11.44	0.51	11.9	-21.03		
08-May-91	0.19	0.82	0.08	75.23	130.31	55.08	1247.7	17915.3	0.00	16.20	8.32	0.37	11.9	11.91	1.73E-04	
09-May-91	0.28	0.82	0.00	75.23	130.30	55.07	1247.4	17902.8	-12.48	23.87			11.9	16.86	2.45E-04	
10-May-91	0.23	0.82	0.00	75.17	130.30	55.13	1247.4	17902.8	0.00	19.61			11.9	-11.97		
11-May-91	0.23	0.82	0.02	75.17	130.31	55.14	1247.7	17915.3	12.48	19.61	2.08	0.09	11.9	-20.18		
12-May-91	0.18	0.82	0.40	75.25	130.34	55.09	1248.7	17952.7	37.45	15.36	41.62	1.85	11.9	-42.99		
13-May-91	0.20	0.82	0.00	75.30	130.35	55.05	1249.0	17965.2	12.49	17.07			11.9	27.53	4.00E-04	
14-May-91	0.22	0.82	0.30	75.29	130.40	55.11	1250.6	18027.7	62.49	18.80	31.26	1.39	11.9	-67.66		
15-May-91	0.27	0.82	0.00	75.24	130.40	55.16	1250.6	18027.7	0.00	23.07			11.9	25.75	3.73E-04	
16-May-91	0.28	0.82	0.00	75.19	130.41	55.22	1250.9	18040.2	12.51	23.93			11.9	-23.68		
17-May-91	0.26	0.82	0.50	75.19	130.45	55.26	1252.1	18090.3	50.06	22.25	52.17	2.31	11.9	-62.09		
18-May-91	0.21	0.82	0.00	75.22	130.45	55.23	1252.1	18090.3	0.00	17.97			11.9	44.14	6.38E-04	
19-May-91	0.29	0.82	0.00	75.24	130.45	55.21	1252.1	18090.3	0.00	24.81			11.9	-6.07		
20-May-91	0.21	0.82	0.75	75.26	130.44	55.18	1251.8	18077.8	-12.52	17.96	78.24	3.47	11.9	-0.39		
21-May-91	0.21	0.82	0.00	75.21	130.42	55.21	1251.2	18052.7	-25.03	17.95			11.9	100.68	1.46E-03	
22-May-91	0.19	0.82	0.00	75.17	130.42	55.25	1251.2	18052.7	0.00	16.24			11.9	-6.05		
23-May-91	0.19	0.82	0.01	75.12	130.40	55.28	1250.6	18027.7	-25.02	16.24	1.04	0.05	11.9	20.67	2.99E-04	
24-May-91	0.05	0.82	0.20	75.13	130.51	55.38	1254.0	18165.5	137.75	4.28	20.90	0.93	11.9	-141.00		
25-May-91	0.09	0.82	0.08	75.18	130.53	55.35	1254.6	18190.6	25.09	7.72	8.36	0.37	11.9	4.35	6.27E-05	
26-May-91	0.28	0.82	0.00	75.22	130.53	55.31	1254.6	18190.6	0.00	24.01			11.9	12.92	1.86E-04	
27-May-91	0.09	0.82	0.25	75.20	130.57	55.37	1255.9	18240.8	50.21	7.72	26.16	1.16	11.9	-62.32		
28-May-91	0.24	0.82	0.70	75.15	130.56	55.41	1255.6	18228.2	-12.56	20.59	73.24	3.24	11.9	44.05	6.33E-04	
29-May-91	0.21	0.82	0.00	75.12	130.56	55.44	1255.6	18228.2	0.00	18.02			11.9	67.79	9.74E-04	
30-May-91	0.26	0.82	0.31	75.14	130.56	55.42	1255.6	18228.2	0.00	22.31	32.44	1.44	11.9	-6.12		
31-May-91	0.15	0.82	0.03	75.14	130.57	55.43	1255.9	18240.8	12.56	12.87	3.14	0.14	11.9	10.91	1.57E-04	
01-Jun-91	0.09	0.85	1.67	75.18	130.59	55.41	1256.5	18265.9	25.12	8.01	174.86	7.73	11.9	-22.82		
02-Jun-91	0.24	0.85	0.00	75.27	130.59	55.32	1256.5	18265.9	0.00	21.36			11.9	186.48	2.68E-03	
03-Jun-91	0.28	0.85	0.00	75.30	130.58	55.28	1256.2	18253.3	-12.56	24.91			11.9	3.10	4.47E-05	
04-Jun-91	0.20	0.85	0.00	75.30	130.58	55.28	1256.2	18253.3	0.00	17.80			11.9	-13.01		
05-Jun-91	0.29	0.85	1.03	75.34	130.74	55.40	1261.2	18454.7	201.39	25.91	108.25	4.77	11.9	-207.29		
06-Jun-91	0.17	0.85	0.42	75.33	130.77	55.44	1262.1	18492.6	37.85	15.20	44.17	1.94	11.9	61.16	8.74E-04	
07-Jun-91	0.12	0.85	0.06	75.33	130.79	55.46	1262.8	18517.8	25.25	10.73	6.31	0.28	11.9	17.57	2.51E-04	
08-Jun-91	0.04	0.85	0.09	75.41	130.81	55.40	1263.4	18543.1	25.26	3.58	9.48	0.42	11.9	-17.50		
09-Jun-91	0.22	0.85	0.00	75.52	130.80	55.28	1263.1	18530.4	-12.63	19.68			11.9	30.84	4.42E-04	
10-Jun-91	0.30	0.85	0.00	75.62	130.80	55.18	1263.1	18530.4	0.00	26.84			11.9	-7.78		
11-Jun-91	0.25	0.85	0.00	75.66	130.79	55.13	1262.8	18517.8	-12.63	22.36			11.9	-2.31		
12-Jun-91	0.22	0.85	0.00	75.72	130.80	55.08	1263.1	18530.4	12.63	19.68			11.9	-23.09		
13-Jun-91	0.29	0.85	0.00	75.76	130.79	55.03	1262.8	18517.8	-12.63	25.94			11.9	4.85	6.97E-05	
14-Jun-91	0.22	0.85	0.00	75.80	130.78	54.98	1262.4	18505.2	-12.63	19.67			11.9	-1.41		
15-Jun-91	0.22	0.85	0.00	75.90	130.78	54.88	1262.4	18505.2	0.00	19.67			11.9	-7.77		
16-Jun-91	0.25	0.85	0.00	76.02	130.78	54.76	1262.4	18505.2	0.00	22.36			11.9	-7.77		
17-Jun-91	0.23	0.85	0.00	76.10	130.78	54.68	1262.4	18505.2	0.00	20.57			11.9	-10.46		
18-Jun-91	0.15	0.85	1.34	76.12	130.80	54.68	1263.1	18530.4	25.26	13.42	141.04	6.20	11.9	-33.92		
19-Jun-91	0.12	0.85	0.07	76.11	130.80	54.69	1263.1	18530.4	0.00	10.74	7.37	0.32	11.9	145.73	2.11E-03	
20-Jun-91	0.12	0.85	0.20	76.11	130.80	54.69	1263.1	18530.4	0.00	10.74	21.05	0.93	11.9	8.86	1.28E-04	
21-Jun-91	0.26	0.85	0.00	76.17	130.84	54.67	1264.3	18581.0	50.55	23.28			11.9	-27.41		
22-Jun-91	0.27	0.85	0.00	76.21	130.83	54.62	1264.0	18568.4	-12.64	24.17			11.9	1.26	1.82E-05	
23-Jun-91	0.27	0.85	0.00	76.23	130.82	54.59	1263.7	18555.7	-12.64	24.17			11.9	0.36	5.28E-06	
24-Jun-91	0.26	0.85	0.00	76.19	130.83	54.64	1264.0	18568.4	12.64	23.28			11.9	-24.91		
25-Jun-91	0.23	0.85	0.32	76.17	131.01	54.84	1269.6	18796.4	228.03	20.68						
26-Jun-91	0.24	0.85	0.06	76.18	131.03											
27-Jun-91	0.18	0.85	1.42	76.15	131.05											
28-Jun-91	0.22	0.85	0.02	76.12	131.05											
29-Jun-91	0.28	0.85	0.00	76.16	131.05											
30-Jun-91	0.13	0.85	0.13	76.21	131.07											

SAND HILL LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 5555

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Surface Inflow Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jul-91	0.20	0.91	0.00	76.25	131.08										
02-Jul-91	0.19	0.91	0.14	76.25	131.08										
03-Jul-91	0.23	0.91	0.00	76.24	131.05										
04-Jul-91	0.23	0.91	0.08	76.25	131.05										
05-Jul-91	0.30	0.91	0.17	76.26	131.06										
06-Jul-91	0.16	0.91	0.04	76.23	131.08										
07-Jul-91	0.16	0.91	0.00	76.22	131.10										
08-Jul-91	0.17	0.91	0.00	76.24	131.09										
09-Jul-91	0.21	0.91	0.26	76.27	131.13										
10-Jul-91	0.13	0.91	0.47	76.26	131.14										
11-Jul-91	0.17	0.91	1.09	76.25	131.15										
12-Jul-91	0.10	0.91	0.10	76.24	131.16										
13-Jul-91	0.07	0.91	0.00	76.26	131.17										
14-Jul-91	0.12	0.91	0.00	76.27	131.16										
15-Jul-91	0.13	0.91	0.02	76.24	131.19										
16-Jul-91	0.23	0.91	0.02	76.23	131.25										
17-Jul-91	0.22	0.91	0.00	76.24	131.24										
18-Jul-91	0.22	0.91	0.00	76.25	131.23										
19-Jul-91	0.13	0.91	0.01	76.24	131.23										
20-Jul-91	0.31	0.91	0.94	76.25	131.25										
21-Jul-91	0.18	0.91	0.00	76.27	131.25										
22-Jul-91	0.23	0.91	0.00	76.32	131.25										
23-Jul-91	0.25	0.91	0.00	76.41	131.34										
24-Jul-91	0.18	0.91	0.00	76.52	131.44										
25-Jul-91	0.17	0.91	0.53	76.55	131.45										
26-Jul-91	0.18	0.91	0.00	76.53	131.54										
27-Jul-91	0.14	0.91	0.76	76.57	131.58										
28-Jul-91	0.13	0.91	1.18	76.62	131.60										
29-Jul-91	0.14	0.91	0.35	76.66	131.61										
30-Jul-91	0.12	0.91	0.42	76.68	131.61										
31-Jul-91	0.14	0.91	0.77	76.73	131.69										
01-Aug-91	0.09	0.91	1.48	76.79	131.72										
02-Aug-91	0.05	0.91	0.13	76.80	131.69										
03-Aug-91	0.17	0.91	0.08	76.82	131.67										
04-Aug-91	0.14	0.91	0.02	76.90	131.70										
05-Aug-91	0.22	0.91	0.08	76.96	131.77										
06-Aug-91	0.15	0.91	0.07	76.93	131.76										
07-Aug-91	0.24	0.91	0.00	76.90	131.75										
08-Aug-91	0.25	0.91	0.00	76.94	131.73										
09-Aug-91	0.21	0.91	0.07	77.01	131.72										
10-Aug-91	0.13	0.91	0.00	77.03	131.71										
11-Aug-91	0.20	0.91	0.16	77.01	131.70										
12-Aug-91	0.25	0.91	0.00	77.00	131.68										
13-Aug-91	0.10	0.91	0.05	77.01	131.67										
14-Aug-91	0.24	0.91	0.00	77.00	131.65										
15-Aug-91	0.29	0.91	0.00	76.99	131.65										
16-Aug-91	0.18	0.91	0.61	76.96	131.64										
17-Aug-91	0.20	0.91	0.00	76.97	131.63										
18-Aug-91	0.25	0.91	0.00	77.01	131.60										
19-Aug-91	0.17	0.91	0.00	76.96	131.58										
20-Aug-91	0.16	0.91	0.14	76.89	131.60										
21-Aug-91	0.14	0.91	0.01	76.80	131.58										
22-Aug-91	0.23	0.91	0.00	76.77	131.57										
23-Aug-91	0.20	0.91	0.00	76.74	131.58										
24-Aug-91	0.17	0.91	0.54	76.73	131.65										
25-Aug-91	0.10	0.91	0.13	76.77	131.66										
26-Aug-91	0.13	0.91	0.00	76.77	131.65										
27-Aug-91	0.05	0.91	2.74	76.75	131.64										
28-Aug-91	0.15	0.91	0.67	76.76	131.64										
29-Aug-91	0.21	0.91	0.64	76.73	131.64										
30-Aug-91	0.14	0.91	0.00	76.75	131.62										
31-Aug-91	0.13	0.91	0.02	76.78	131.61										

Average = 2.772E-04
 Variance = 4.744E-07
 Std. Dev. = 6.888E-04

D3. Magnolia Lake Daily Water Budget

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
01-Jan-89	0.06	0.77	0.00	81.33	124.78	43.45	208.57	5350.70	NA	0.80				NA
02-Jan-89	0.08	0.77	0.00	81.31	124.77	43.46	208.55	5349.31	-1.39	1.07			0.59	
03-Jan-89	0.08	0.77	0.00	81.34	124.77	43.43	208.52	5347.92	-1.39	1.07			0.32	
04-Jan-89	0.16	0.77	0.00	81.19	124.76	43.57	208.49	5346.53	-1.39	2.14			0.32	
05-Jan-89	0.15	0.77	0.00	81.10	124.75	43.66	208.46	5345.14	-1.39	2.01			-0.75	
06-Jan-89	0.10	0.77	0.00	81.11	124.75	43.63	208.43	5343.75	-1.39	1.34			-0.62	
07-Jan-89	0.10	0.77	0.00	81.08	124.74	43.66	208.41	5342.36	-1.39	1.34			0.05	
08-Jan-89	0.10	0.77	0.00	81.10	124.74	43.64	208.40	5341.97	-0.60	1.34			-0.74	
09-Jan-89	0.09	0.77	0.00	81.09	124.73	43.65	208.38	5341.57	-0.60	1.20			-0.74	
10-Jan-89	0.07	0.77	0.00	81.03	124.73	43.71	208.37	5340.17	-0.60	0.94			-0.61	
11-Jan-89	0.03	0.77	0.00	81.00	124.73	43.73	208.36	5339.78	-0.60	0.40			-0.34	
12-Jan-89	0.02	0.77	0.00	81.00	124.73	43.73	208.35	5339.38	-0.60	0.27			0.19	
13-Jan-89	0.05	0.77	0.00	81.02	124.72	43.71	208.34	5338.99	-0.60	0.67			0.33	
14-Jan-89	0.14	0.77	0.00	80.95	124.72	43.77	208.32	5338.19	-0.60	1.87			-0.07	
15-Jan-89	0.09	0.77	0.00	80.98	124.72	43.74	208.31	5337.60	-0.60	1.20			-1.28	
16-Jan-89	0.11	0.77	0.00	80.95	124.71	43.76	208.30	5337.00	-0.60	1.47			-0.61	
17-Jan-89	0.19	0.77	0.00	80.89	124.71	43.82	208.29	5336.41	-0.60	2.54			-0.88	
18-Jan-89	0.09	0.77	0.00	80.91	124.71	43.80	208.28	5335.81	-0.60	1.20			-1.94	
19-Jan-89	0.10	0.77	0.00	80.91	124.71	43.80	208.26	5335.22	-0.60	1.34			-0.61	
20-Jan-89	0.10	0.77	0.00	80.95	124.70	43.75	208.25	5334.62	-0.60	1.34			-0.74	
21-Jan-89	0.10	0.77	0.18	80.94	124.70	43.76	208.24	5334.03	-0.59	1.34	3.12	0.33	-0.74	
22-Jan-89	0.07	0.77	0.96	81.09	124.70	43.61	208.24	5334.03	0.00	0.94	16.66	1.74	2.11	
23-Jan-89	0.03	0.77	0.01	81.05	124.70	43.65	208.24	5334.03	0.00	0.40	0.17	0.02	17.46	
24-Jan-89	0.12	0.77	0.00	80.95	124.70	43.75	208.24	5334.03	0.00	1.60			-0.21	
25-Jan-89	0.13	0.77	0.00	80.91	124.70	43.79	208.24	5334.03	0.00	1.74			-1.60	
26-Jan-89	0.14	0.77	0.00	80.87	124.70	43.83	208.24	5334.03	0.00	1.87			-1.74	
27-Jan-89	0.10	0.77	0.00	80.92	124.70	43.78	208.24	5334.03	0.00	1.34			-1.87	
28-Jan-89	0.13	0.77	0.00	80.89	124.70	43.81	208.24	5334.03	0.00	1.74			-1.34	
29-Jan-89	0.11	0.77	0.00	80.92	124.70	43.78	208.24	5334.03	0.00	1.47			-1.74	
30-Jan-89	0.11	0.77	0.00	80.95	124.70	43.75	208.24	5334.03	0.00	1.47			-1.47	
31-Jan-89	0.12	0.77	0.00	80.88	124.70	43.82	208.24	5334.03	0.00	1.60			-1.47	
01-Feb-89	0.16	0.69	0.00	80.82	124.70	43.88	208.24	5334.03	0.00	1.92			-1.60	
02-Feb-89	0.09	0.69	0.00	80.76	124.70	43.94	208.24	5334.03	0.00	1.08			-1.92	
03-Feb-89	0.13	0.69	0.00	80.72	124.70	43.98	208.24	5334.03	0.00	1.56			-1.08	
04-Feb-89	0.13	0.69	0.00	80.74	124.70	43.96	208.24	5334.03	0.00	1.56			-1.56	
05-Feb-89	0.12	0.69	0.00	80.78	124.69	43.91	208.21	5332.78	-1.25	1.44			-0.31	
06-Feb-89	0.16	0.69	0.00	80.79	124.69	43.90	208.19	5331.53	-1.25	1.92			-0.19	
07-Feb-89	0.17	0.69	0.00	80.75	124.68	43.94	208.16	5330.28	-1.25	2.03			-0.67	
08-Feb-89	0.07	0.69	0.00	80.68	124.68	43.99	208.14	5329.03	-1.25	0.84			-0.79	
09-Feb-89	0.21	0.69	0.00	80.57	124.67	44.10	208.11	5327.78	-1.25	2.51			0.41	
10-Feb-89	0.16	0.69	0.00	80.56	124.65	44.09	208.03	5323.62	-4.16	1.91			1.65	
11-Feb-89	0.14	0.69	0.00	80.60	124.64	44.04	207.99	5321.54	-2.08	1.67			0.17	
12-Feb-89	0.13	0.69	0.00	80.57	124.63	44.06	207.93	5318.57	-2.97	1.55			1.30	
13-Feb-89	0.12	0.69	0.00	80.52	124.61	44.09	207.87	5315.60	-2.97	1.43			1.42	
14-Feb-89	0.14	0.69	0.00	80.45	124.60	44.15	207.81	5312.63	-2.97	1.67			1.53	
15-Feb-89	0.17	0.69	0.00	80.41	124.58	44.17	207.75	5309.66	-2.97	2.03			1.30	
16-Feb-89	0.17	0.69	0.00	80.43	124.57	44.14	207.69	5306.69	-2.97	2.03			0.94	
17-Feb-89	0.15	0.69	0.00	80.46	124.55	44.09	207.63	5303.73	-2.97	1.79			0.94	
18-Feb-89	0.09	0.69	0.00	80.49	124.54	44.05	207.57	5300.76	-2.97	1.07			1.17	
19-Feb-89	0.04	0.69	0.00	80.51	124.54	44.02	207.56	5300.17	-0.59	0.48			-0.48	
20-Feb-89	0.08	0.69	0.00	80.54	124.53	43.99	207.55	5299.58	-0.59	0.95			0.12	
21-Feb-89	0.14	0.69	0.00	80.57	124.53	43.96	207.53	5298.98	-0.59	1.67			-0.36	
22-Feb-89	0.21	0.69	0.84	80.60	124.53	43.93	207.52	5298.39	-0.59	2.51	14.53	1.52	-1.08	
23-Feb-89	0.15	0.69	0.00	80.48	124.53	44.05	207.51	5297.80	-0.59	1.79			14.14	
24-Feb-89	0.14	0.69	0.00	80.28	124.52	44.24	207.50	5297.20	-0.59	1.67			-1.20	
25-Feb-89	0.14	0.69	0.00	80.24	124.52	44.28	207.49	5296.61	-0.59	1.67			-1.08	
26-Feb-89	0.14	0.69	0.00	80.31	124.53	44.23	207.55	5299.58	2.96	1.67			-4.63	
27-Feb-89	0.15	0.69	0.00	80.42	124.55	44.12	207.61	5302.54	2.97	1.79			-4.64	
28-Feb-89	0.19	0.69	0.00	80.39	124.56	44.18	207.67	5305.51	2.97	2.27			-4.76	
01-Mar-89	0.20	0.73	0.00	80.33	124.58	44.24	207.73	5308.48	2.97	2.53			-5.24	
02-Mar-89	0.11	0.73	0.92	80.46	124.59	44.13	207.79	5311.44	2.97	1.39	15.93	1.67	-5.50	
03-Mar-89	0.01	0.73	0.21	80.52	124.61	44.08	207.85	5314.41	2.97	0.13	3.64	0.38	13.24	
04-Mar-89	0.13	0.73	0.13	80.46	124.62	44.16	207.90	5317.38	2.97	1.64	2.25	0.24	0.92	
05-Mar-89	0.18	0.73	0.00	80.45	124.61	44.16	207.85	5314.41	-2.97	2.28			3.81	
06-Mar-89	0.19	0.73	0.00	80.45	124.59	44.14	207.79	5311.44	-2.97	2.40			0.69	
07-Mar-89	0.15	0.73	0.00	80.42	124.58	44.15	207.73	5308.48	-2.97	1.90			0.57	
08-Mar-89	0.09	0.73	0.00	80.35	124.56	44.21	207.67	5305.51	-2.97	1.14			1.07	
09-Mar-89	0.05	0.73	0.00	80.32	124.55	44.23	207.61	5302.54	-2.97	0.63			1.83	
10-Mar-89	0.04	0.73	0.00	80.31	124.53	44.23	207.55	5299.58	-2.97	0.51			2.33	
11-Mar-89	0.21	0.73	0.00	80.28	124.52	44.24	207.49	5296.61	-2.96	2.65			2.46	
12-Mar-89	0.19	0.73	0.00	80.31	124.51	44.20	207.45	5294.83	-1.78	2.40			-0.87	

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
13-Mar-89	0.23	0.73	0.00	80.29	124.50	44.21	207.41	5293.06	-1.78	2.90			-0.62	
14-Mar-89	0.20	0.73	0.00	80.25	124.49	44.24	207.38	5291.28	-1.78	2.52			-1.12	
15-Mar-89	0.30	0.73	0.00	80.19	124.49	44.30	207.34	5289.50	-1.78	3.78			-0.75	
16-Mar-89	0.19	0.73	0.00	80.12	124.48	44.36	207.31	5287.72	-1.78	2.40			-2.01	
17-Mar-89	0.23	0.73	0.00	80.05	124.47	44.42	207.27	5285.95	-1.78	2.90			-0.62	
18-Mar-89	0.23	0.73	0.00	80.00	124.46	44.46	207.24	5284.17	-1.78	2.90			-1.12	
19-Mar-89	0.19	0.73	0.00	79.97	124.45	44.49	207.21	5282.99	-1.18	2.40			-1.72	
20-Mar-89	0.26	0.73	0.00	79.97	124.45	44.47	207.19	5281.80	-1.18	3.28			-1.21	
21-Mar-89	0.15	0.73	0.00	80.01	124.44	44.43	207.16	5280.62	-1.18	1.89			-2.09	
22-Mar-89	0.22	0.73	0.00	80.00	124.44	44.44	207.14	5279.43	-1.18	2.77			-0.71	
23-Mar-89	0.14	0.73	0.22	80.09	124.43	44.34	207.12	5278.25	-1.18	1.76	3.80	0.40	-1.59	
24-Mar-89	0.17	0.73	0.08	80.06	124.43	44.37	207.09	5277.07	-1.18	2.14	1.38	0.15	3.62	
25-Mar-89	0.12	0.73	0.00	80.03	124.42	44.39	207.07	5275.88	-1.18	1.51			0.57	
26-Mar-89	0.12	0.73	0.00	80.01	124.41	44.40	207.02	5273.52	-2.37	1.51			0.85	
27-Mar-89	0.21	0.73	0.00	79.94	124.40	44.46	206.97	5271.15	-2.37	2.64			0.85	
28-Mar-89	0.21	0.73	0.00	79.92	124.39	44.46	206.92	5268.79	-2.37	2.64			-0.28	
29-Mar-89	0.26	0.73	0.00	79.92	124.37	44.45	206.88	5266.42	-2.36	3.27			-0.28	
30-Mar-89	0.19	0.73	0.00	79.97	124.36	44.39	206.83	5264.06	-2.36	2.39			-0.91	
31-Mar-89	0.17	0.73	0.00	79.96	124.35	44.39	206.78	5261.70	-2.36	2.14			-0.03	
01-Apr-89	0.38	0.84	0.00	79.77	124.34	44.57	206.73	5259.33	-2.36	5.50			0.22	
02-Apr-89	0.23	0.84	0.00	79.71	124.33	44.63	206.71	5257.95	-1.38	3.33			-4.12	
03-Apr-89	0.23	0.84	0.00	79.69	124.33	44.64	206.68	5256.58	-1.38	3.33			-1.95	
04-Apr-89	0.18	0.84	0.00	79.65	124.32	44.67	206.65	5255.20	-1.38	2.60			-1.95	
05-Apr-89	0.23	0.84	0.19	79.73	124.31	44.58	206.62	5253.82	-1.38	3.33	3.27	0.34	-1.23	
06-Apr-89	0.17	0.84	0.12	79.80	124.31	44.51	206.59	5252.44	-1.38	2.46	2.07	0.22	1.67	
07-Apr-89	0.27	0.84	0.00	79.84	124.30	44.46	206.57	5251.07	-1.38	3.90			1.20	
08-Apr-89	0.22	0.84	0.00	79.80	124.28	44.48	206.48	5246.94	-4.13	3.18			0.23	
09-Apr-89	0.25	0.84	0.00	79.71	124.27	44.55	206.43	5244.58	-2.36	3.61			-0.82	
10-Apr-89	0.25	0.84	0.00	79.63	124.26	44.62	206.39	5242.22	-2.36	3.61			-1.25	
11-Apr-89	0.23	0.84	0.08	79.62	124.25	44.63	206.34	5239.86	-2.36	3.32	1.38	0.15	-1.25	
12-Apr-89	0.04	0.84	0.13	79.65	124.23	44.58	206.29	5237.50	-2.36	0.58	2.23	0.24	0.56	
13-Apr-89	0.15	0.84	0.00	79.67	124.22	44.55	206.24	5235.14	-2.36	2.17			4.25	
14-Apr-89	0.12	0.84	0.00	79.63	124.21	44.58	206.20	5232.79	-2.36	1.73			0.19	
15-Apr-89	0.16	0.84	0.75	79.73	124.20	44.47	206.15	5230.43	-2.36	2.31	12.88	1.36	0.62	
16-Apr-89	0.10	0.84	0.06	79.69	124.19	44.50	206.11	5228.66	-1.77	1.44	1.03	0.11	13.70	
17-Apr-89	0.20	0.84	0.00	79.57	124.18	44.61	206.08	5226.90	-1.77	2.89			1.46	
18-Apr-89	0.24	0.84	0.00	79.57	124.17	44.60	206.04	5225.13	-1.77	3.46			-1.12	
19-Apr-89	0.21	0.84	0.00	79.57	124.17	44.59	206.00	5223.37	-1.77	3.03			-1.70	
20-Apr-89	0.21	0.84	0.00	79.56	124.16	44.60	205.97	5221.60	-1.77	3.03			-1.26	
21-Apr-89	0.17	0.84	0.01	79.58	124.15	44.57	205.93	5219.83	-1.77	2.45	0.17	0.02	-1.26	
22-Apr-89	0.13	0.84	0.00	79.47	124.14	44.67	205.90	5218.07	-1.76	1.87			-0.50	
23-Apr-89	0.21	0.84	0.00	79.39	124.12	44.73	205.80	5213.36	-4.71	3.03			2.83	
24-Apr-89	0.23	0.84	0.00	79.34	124.09	44.76	205.70	5208.66	-4.70	3.31			1.68	
25-Apr-89	0.26	0.84	0.00	79.34	124.07	44.73	205.61	5203.96	-4.70	3.74			1.39	
26-Apr-89	0.27	0.84	0.00	79.31	124.05	44.74	205.51	5199.26	-4.70	3.88			0.96	
27-Apr-89	0.27	0.84	0.00	79.28	124.03	44.74	205.42	5194.57	-4.70	3.88			0.81	
28-Apr-89	0.29	0.84	0.00	79.22	124.00	44.78	205.32	5189.87	-4.69	4.17			0.81	
29-Apr-89	0.28	0.84	0.00	79.14	123.98	44.84	205.23	5185.18	-4.69	4.02			0.52	
30-Apr-89	0.28	0.84	0.00	79.13	123.97	44.84	205.18	5182.83	-2.35	4.02			-1.68	
01-May-89	0.22	0.82	0.08	79.28	123.96	44.67	205.13	5180.49	-2.34	3.08	1.37	0.15	-1.68	
02-May-89	0.13	0.82	0.59	79.30	123.95	44.64	205.08	5178.15	-2.34	1.82	10.08	1.07	0.77	
03-May-89	0.27	0.82	0.00	79.21	123.93	44.72	205.04	5175.80	-2.34	3.78			11.67	
04-May-89	0.25	0.82	0.00	79.18	123.92	44.75	204.99	5173.46	-2.34	3.50			-1.44	
05-May-89	0.22	0.82	0.00	79.15	123.91	44.76	204.94	5171.12	-2.34	3.08			-1.16	
06-May-89	0.26	0.82	0.00	79.17	123.90	44.73	204.89	5168.77	-2.34	3.64			-0.74	
07-May-89	0.30	0.82	0.10	79.18	123.89	44.71	204.84	5166.43	-2.34	4.20	1.71	0.18	-1.30	
08-May-89	0.39	0.82	0.00	79.11	123.88	44.76	204.80	5164.09	-2.34	5.46			0.03	
09-May-89	0.24	0.82	0.00	79.09	123.87	44.78	204.75	5161.75	-2.34	3.36			-3.12	
10-May-89	0.31	0.82	0.00	79.13	123.85	44.72	204.70	5159.41	-2.34	4.34			-1.02	
11-May-89	0.16	0.82	0.30	79.18	123.84	44.67	204.65	5157.07	-2.34	2.24	5.12	0.54	-2.00	
12-May-89	0.27	0.82	0.00	79.12	123.83	44.71	204.60	5154.73	-2.34	3.77			5.76	
13-May-89	0.32	0.82	0.00	79.06	123.82	44.76	204.56	5152.40	-2.34	4.47			-1.44	
14-May-89	0.16	0.82	0.00	78.99	123.81	44.82	204.50	5149.47	-2.92	2.24			-1.55	
15-May-89	0.28	0.82	0.00	78.90	123.79	44.89	204.44	5146.55	-2.92	3.91			0.69	
16-May-89	0.31	0.82	0.00	78.85	123.78	44.92	204.38	5143.63	-2.92	4.33			-0.99	
17-May-89	0.31	0.82	0.00	78.79	123.76	44.97	204.32	5140.71	-2.92	4.33			-1.41	
18-May-89	0.32	0.82	0.00	78.72	123.75	45.03	204.26	5137.80	-2.92	4.47			-1.41	
19-May-89	0.31	0.82	0.00	78.73	123.73	45.01	204.20	5134.88	-2.92	4.33			-1.55	
20-May-89	0.19	0.82	0.00	78.70	123.72	45.02	204.14	5131.96	-2.92	2.65			-1.41	
21-May-89	0.20	0.82	0.02	78.73	123.71	44.98	204.08	5129.05	-2.92	2.79	0.34	0.04	0.27	

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
22-May-89	0.25	0.82	0.74	78.88	123.69	44.81	204.02	5126.13	-2.91	3.49	12.58	1.34	0.50	
23-May-89	0.22	0.82	0.00	78.83	123.68	44.85	203.96	5123.22	-2.91	3.07			13.35	
24-May-89	0.23	0.82	0.00	78.82	123.66	44.85	203.90	5120.30	-2.91	3.20			-0.15	
25-May-89	0.16	0.82	0.10	78.79	123.65	44.86	203.84	5117.39	-2.91	2.23	1.70	0.18	-0.29	
26-May-89	0.23	0.82	0.00	78.66	123.63	44.98	203.78	5114.48	-2.91	3.20			2.56	
27-May-89	0.28	0.82	0.00	78.56	123.62	45.06	203.72	5111.57	-2.91	3.90			-0.29	
28-May-89	0.33	0.82	0.00	78.50	123.60	45.09	203.62	5106.68	-4.89	4.59			0.99	
29-May-89	0.36	0.82	0.00	78.44	123.57	45.13	203.52	5101.80	-4.89	5.01			0.29	
30-May-89	0.25	0.82	0.05	78.45	123.55	45.10	203.42	5096.91	-4.88	3.48	0.85	0.09	-0.12	
31-May-89	0.30	0.82	0.00	78.42	123.52	45.10	203.32	5092.03	-4.88	4.17			2.34	
01-Jun-89	0.35	0.85	0.00	78.39	123.50	45.11	203.22	5087.15	-4.88	5.04			0.71	
02-Jun-89	0.34	0.85	0.00	78.33	123.50	45.17	203.23	5087.97	0.81	4.89			-5.85	
03-Jun-89	0.28	0.85	0.00	78.31	123.51	45.19	203.25	5088.78	0.81	4.03			-5.71	
04-Jun-89	0.33	0.85	0.00	78.27	123.51	45.24	203.27	5089.59	0.81	4.75			-4.84	
05-Jun-89	0.30	0.85	0.00	78.30	123.52	45.22	203.29	5090.40	0.81	4.32			-5.56	
06-Jun-89	0.27	0.85	0.00	78.48	123.52	45.04	203.30	5091.22	0.81	3.89			-5.13	
07-Jun-89	0.12	0.85	0.47	78.58	123.51	44.93	203.26	5089.19	-2.03	1.73	7.96	0.85	-1.86	
08-Jun-89	0.11	0.85	0.01	78.57	123.50	44.93	203.22	5087.15	-2.03	1.58	0.17	0.02	9.12	
09-Jun-89	0.15	0.85	0.81	78.58	123.49	44.91	203.18	5085.12	-2.03	2.16	13.71	1.47	0.64	
10-Jun-89	0.28	0.85	0.00	78.48	123.48	45.00	203.13	5083.09	-2.03	4.03			15.06	
11-Jun-89	0.30	0.85	0.00	78.43	123.46	45.03	203.05	5079.03	-4.06	4.31			0.03	
12-Jun-89	0.27	0.85	0.00	78.43	123.44	45.01	202.97	5074.97	-4.06	3.88			-0.25	
13-Jun-89	0.26	0.85	0.00	78.42	123.42	45.00	202.88	5070.91	-4.06	3.74			0.18	
14-Jun-89	0.29	0.85	0.00	78.35	123.40	45.05	202.80	5066.85	-4.06	4.17			0.32	
15-Jun-89	0.31	0.85	0.00	78.28	123.38	45.10	202.72	5062.80	-4.06	4.45			-0.11	
16-Jun-89	0.28	0.85	0.00	78.29	123.36	45.07	202.63	5058.74	-4.05	4.02			-0.40	
17-Jun-89	0.33	0.85	1.31	78.26	123.34	45.08	202.55	5054.69	-4.05	4.73	22.11	2.38	0.03	
18-Jun-89	0.14	0.85	0.02	78.27	123.34	45.07	202.55	5054.69	0.00	2.01	0.34	0.04	19.75	
19-Jun-89	0.40	0.85	0.94	78.40	123.34	44.94	202.55	5054.69	0.00	5.74	15.87	1.70	-1.63	
20-Jun-89	0.31	0.85	0.09	78.43	123.34	44.91	202.55	5054.69	0.00	4.45	1.52	0.16	11.83	
21-Jun-89	0.15	0.85	1.72	78.38	123.34	44.96	202.55	5054.69	0.00	2.15	29.03	3.12	-2.77	
22-Jun-89	0.25	0.85	1.72	78.38	123.34	44.96	202.55	5054.69	0.00	3.59	29.03	3.12	30.00	
23-Jun-89	0.32	0.85	0.00	78.39	123.34	44.95	202.55	5054.69	0.00	4.59			28.56	
24-Jun-89	0.13	0.85	0.70	78.42	123.34	44.92	202.55	5054.69	0.00	1.87	11.82	1.27	-4.59	
25-Jun-89	0.15	0.85	0.00	78.40	123.35	44.94	202.58	5056.43	1.74	2.15			9.48	
26-Jun-89	0.21	0.85	0.00	78.35	123.36	45.01	202.62	5058.16	1.74	3.01			-3.89	
27-Jun-89	0.25	0.85	0.00	78.30	123.37	45.07	202.66	5059.90	1.74	3.59			-4.75	
28-Jun-89	0.30	0.85	0.00	78.22	123.37	45.15	202.69	5061.64	1.74	4.31			-5.33	
29-Jun-89	0.25	0.85	2.20	78.22	123.38	45.16	202.73	5063.38	1.74	3.59	37.17	3.99	-6.04	
30-Jun-89	0.18	0.85	0.67	78.30	123.39	45.09	202.76	5065.11	1.74	2.59	11.32	1.21	35.83	
01-Jul-89	0.27	0.91	0.08	78.39	123.40	45.01	202.80	5066.85	1.74	4.15	1.35	0.15	8.21	
02-Jul-89	0.18	0.91	0.27	78.42	123.39	44.97	202.76	5065.11	-1.74	2.77	4.56	0.49	-0.92	
03-Jul-89	0.21	0.91	0.02	78.42	123.38	44.96	202.73	5063.38	-1.74	3.23	0.34	0.04	4.02	
04-Jul-89	0.23	0.91	0.00	78.42	123.37	44.95	202.69	5061.64	-1.74	3.54			-1.12	
05-Jul-89	0.14	0.91	0.00	78.38	123.37	44.99	202.66	5059.90	-1.74	2.15			-1.80	
06-Jul-89	0.25	0.91	0.00	78.29	123.36	45.07	202.62	5058.16	-1.74	3.84			-0.41	
07-Jul-89	0.20	0.91	0.00	78.24	123.35	45.11	202.58	5056.43	-1.74	3.07			-2.10	
08-Jul-89	0.24	0.91	0.00	78.23	123.34	45.11	202.55	5054.69	-1.74	3.69			-1.34	
09-Jul-89	0.30	0.91	0.00	78.22	123.35	45.12	202.58	5056.43	1.74	4.61			-5.42	
10-Jul-89	0.30	0.91	0.00	78.22	123.36	45.13	202.62	5058.16	1.74	4.61			-6.35	
11-Jul-89	0.23	0.91	0.00	78.18	123.37	45.19	202.66	5059.90	1.74	3.53			-6.35	
12-Jul-89	0.36	0.91	0.00	78.15	123.37	45.22	202.69	5061.64	1.74	5.53			-5.27	
13-Jul-89	0.31	0.91	0.17	78.20	123.38	45.18	202.73	5063.38	1.74	4.77	2.87	0.31	-7.27	
14-Jul-89	0.17	0.91	0.00	78.30	123.39	45.09	202.76	5065.11	1.74	2.61			-3.32	
15-Jul-89	0.13	0.91	0.01	78.26	123.40	45.14	202.80	5066.85	1.74	2.00	0.17	0.02	-4.35	
16-Jul-89	0.17	0.91	0.00	78.27	123.40	45.13	202.79	5066.27	-0.58	2.61			-1.23	
17-Jul-89	0.17	0.91	0.00	78.27	123.39	45.12	202.78	5065.69	-0.58	2.61			-2.03	
18-Jul-89	0.22	0.91	0.00	78.25	123.39	45.14	202.76	5065.11	-0.58	3.38			-2.03	
19-Jul-89	0.21	0.91	0.05	78.25	123.39	45.14	202.75	5064.53	-0.58	3.23	0.84	0.09	-2.80	
20-Jul-89	0.11	0.91	0.51	78.30	123.39	45.09	202.74	5063.96	-0.58	1.69	8.62	0.92	-1.71	
21-Jul-89	0.17	0.91	0.25	78.25	123.38	45.13	202.73	5063.38	-0.58	2.61	4.22	0.45	8.43	
22-Jul-89	0.34	0.91	1.86	78.19	123.38	45.19	202.72	5062.80	-0.58	5.23	31.42	3.37	2.64	
23-Jul-89	0.25	0.91	0.72	78.20	123.36	45.16	202.64	5059.32	-3.47	3.84	12.16	1.31	33.04	
24-Jul-89	0.16	0.91	0.01	78.21	123.35	45.14	202.57	5055.85	-3.47	2.46	0.17	0.02	13.10	
25-Jul-89	0.21	0.91	0.00	78.19	123.33	45.14	202.50	5052.38	-3.47	3.22			1.20	
26-Jul-89	0.29	0.91	0.00	78.19	123.31	45.12	202.43	5048.91	-3.47	4.45			0.25	
27-Jul-89	0.18	0.91	0.03	78.22	123.29	45.07	202.36	5045.44	-3.47	2.76	0.51	0.05	-0.98	
28-Jul-89	0.31	0.91	0.00	78.20	123.28	45.08	202.29	5041.97	-3.47	4.76			1.27	
29-Jul-89	0.39	0.91	0.00	78.14	123.26	45.12	202.21	5038.50	-3.47	5.98			-1.29	
30-Jul-89	0.31	0.91	0.00	78.14	123.27	45.13	202.25	5040.12	1.62	4.75			-7.60	

MAGNOLIA LAKE DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 2176	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)	
31-Jul-89	0.14	0.91	0.00	78.09	123.28	45.19	202.28	5041.74	1.62	2.15				-6.37	
01-Aug-89	0.31	0.91	0.00	78.07	123.28	45.21	202.31	5043.36	1.62	4.76				-3.77	
02-Aug-89	0.19	0.91	0.00	78.11	123.29	45.18	202.35	5044.97	1.62	2.92				-6.37	
03-Aug-89	0.27	0.91	0.75	78.15	123.30	45.15	202.38	5046.59	1.62	4.14	12.65	1.36		-4.53	
04-Aug-89	0.24	0.91	0.00	78.12	123.27	45.15	202.26	5040.52	-6.07	3.68				15.93	
05-Aug-89	0.30	0.91	0.00	78.09	123.24	45.15	202.13	5034.46	-6.07	4.60				2.38	
06-Aug-89	0.23	0.91	0.00	78.06	123.23	45.16	202.07	5031.57	-2.89	3.52				-1.71	
07-Aug-89	0.30	0.91	0.00	77.98	123.21	45.23	202.01	5028.68	-2.89	4.60				-0.64	
08-Aug-89	0.23	0.91	0.00	77.94	123.20	45.26	201.95	5025.80	-2.89	3.52				-1.71	
09-Aug-89	0.20	0.91	0.23	77.92	123.18	45.26	201.89	5022.91	-2.88	3.06	3.87	0.42		-0.64	
10-Aug-89	0.05	0.91	0.11	77.99	123.17	45.18	201.83	5020.03	-2.88	0.77	1.85	0.20		4.11	
11-Aug-89	0.12	0.91	0.50	78.04	123.15	45.12	201.77	5017.15	-2.88	1.84	8.41	0.91		4.17	
12-Aug-89	0.29	0.91	1.29	78.05	123.14	45.09	201.71	5014.27	-2.88	4.44	21.68	2.34		10.36	
13-Aug-89	0.10	0.91	0.13	78.08	123.14	45.06	201.71	5014.27	0.00	1.53	2.19	0.24		19.59	
14-Aug-89	0.12	0.91	0.01	78.11	123.14	45.03	201.71	5014.27	0.00	1.84	0.17	0.02		0.89	
15-Aug-89	0.24	0.91	0.88	78.10	123.14	45.04	201.71	5014.27	0.00	3.67	14.79	1.60		-1.65	
16-Aug-89	0.33	0.91	0.00	78.09	123.14	45.05	201.71	5014.27	0.00	5.05				12.72	
17-Aug-89	0.18	0.91	0.01	78.04	123.14	45.10	201.71	5014.27	0.00	2.75	0.17	0.02		-5.05	
18-Aug-89	0.21	0.91	0.00	77.98	123.14	45.16	201.71	5014.27	0.00	3.21				-2.57	
19-Aug-89	0.25	0.91	0.00	77.96	123.14	45.18	201.71	5014.27	0.00	3.82				-3.21	
20-Aug-89	0.18	0.91	0.10	78.02	123.12	45.10	201.63	5010.23	-4.03	2.75	1.68	0.18		0.21	
21-Aug-89	0.20	0.91	0.31	78.05	123.10	45.05	201.54	5006.20	-4.03	3.06	5.21	0.56		3.14	
22-Aug-89	0.24	0.91	0.20	78.04	123.08	45.04	201.46	5002.17	-4.03	3.67	3.36	0.36		6.74	
23-Aug-89	0.34	0.91	1.40	78.03	123.06	45.03	201.38	4998.14	-4.03	5.19	23.49	2.54		4.08	
24-Aug-89	0.28	0.91	0.00	78.01	123.04	45.03	201.29	4994.12	-4.03	4.27				24.87	
25-Aug-89	0.32	0.91	0.49	78.07	123.02	44.95	201.21	4990.09	-4.03	4.88	8.22	0.89		-0.25	
26-Aug-89	0.17	0.91	0.06	78.05	123.00	44.95	201.13	4986.07	-4.02	2.59	1.01	0.11		8.25	
27-Aug-89	0.25	0.91	0.60	78.04	122.91	44.88	200.77	4968.84	-17.22	3.81	10.04	1.09		15.75	
28-Aug-89	0.24	0.91	0.74	78.02	122.83	44.81	200.41	4951.65	-17.19	3.65	12.36	1.34		24.51	
29-Aug-89	0.26	0.91	0.00	78.01	122.74	44.73	200.05	4934.49	-17.16	3.94				27.22	
30-Aug-89	0.27	0.91	0.00	78.03	122.66	44.63	199.69	4917.36	-17.13	4.09				13.19	
31-Aug-89	0.22	0.91	0.00	77.99	122.57	44.58	199.33	4900.25	-17.10	3.33				13.01	
01-Sep-89	0.31	0.85	1.27	78.05	122.49	44.44	198.97	4883.18	-17.07	4.37	21.06	2.30		13.74	
02-Sep-89	0.26	0.85	0.23	78.05	122.40	44.35	198.62	4866.14	-17.04	3.66	3.81	0.42		36.03	
03-Sep-89	0.27	0.85	1.63	78.04	122.42	44.38	198.70	4870.12	3.97	3.80	26.99	2.96		-3.41	
04-Sep-89	0.19	0.85	0.24	78.03	122.44	44.41	198.78	4874.09	3.97	2.68	3.98	0.44		22.17	
05-Sep-89	0.15	0.85	0.13	78.05	122.46	44.41	198.87	4878.07	3.98	2.11	2.15	0.24		-2.24	
06-Sep-89	0.29	0.85	0.55	78.07	122.48	44.41	198.95	4882.05	3.98	4.09	9.12	1.00		-3.70	
07-Sep-89	0.18	0.85	0.00	78.11	122.50	44.39	199.03	4886.03	3.98	2.54				2.05	
08-Sep-89	0.14	0.85	0.33	78.14	122.52	44.38	199.12	4890.01	3.98	1.97	5.48	0.60		-6.52	
09-Sep-89	0.19	0.85	0.28	78.14	122.54	44.40	199.20	4893.99	3.98	2.68	4.65	0.51		0.12	
10-Sep-89	0.23	0.85	0.00	78.13	122.59	44.47	199.42	4904.62	10.63	3.25				-8.16	
11-Sep-89	0.21	0.85	0.00	78.13	122.65	44.52	199.65	4915.26	10.64	2.97				-13.89	
12-Sep-89	0.21	0.85	0.00	78.11	122.70	44.59	199.87	4925.92	10.65	2.97				-13.62	
13-Sep-89	0.23	0.85	0.00	78.14	122.75	44.62	200.09	4936.58	10.67	3.26				-13.64	
14-Sep-89	0.17	0.85	0.00	78.15	122.81	44.65	200.32	4947.26	10.68	2.41				-13.94	
15-Sep-89	0.18	0.85	0.01	78.17	122.86	44.69	200.54	4957.95	10.69	2.56	0.17	0.02		-13.10	
16-Sep-89	0.22	0.85	0.42	78.16	122.81	44.65	200.32	4947.43	-10.52	3.12	7.01	0.76		8.15	
17-Sep-89	0.13	0.85	0.55	78.26	122.76	44.49	200.10	4936.92	-10.51	1.84	9.17	1.00		15.16	
18-Sep-89	0.11	0.85	0.33	78.35	122.70	44.35	199.88	4926.42	-10.50	1.56	5.50	0.60		18.83	
19-Sep-89	0.21	0.85	0.00	78.28	122.65	44.37	199.66	4915.93	-10.49	2.97				15.03	
20-Sep-89	0.23	0.85	0.00	78.25	122.60	44.35	199.44	4905.45	-10.48	3.25				7.51	
21-Sep-89	0.22	0.85	0.00	78.29	122.55	44.26	199.22	4894.99	-10.46	3.10				7.22	
22-Sep-89	0.23	0.85	0.00	78.26	122.49	44.23	199.00	4884.53	-10.45	3.24				7.35	
23-Sep-89	0.06	0.85	0.75	78.28	122.44	44.16	198.78	4874.09	-10.44	0.84	12.42	1.36		7.20	
24-Sep-89	0.06	0.85	0.32	78.26	122.50	44.24	199.03	4886.03	11.93	0.85	5.31	0.58		1.00	
25-Sep-89	0.10	0.85	0.42	78.32	122.56	44.24	199.28	4897.98	11.95	1.41	6.97	0.76		-6.91	
26-Sep-89	0.01	0.85	0.26	78.32	122.62	44.30	199.54	4909.94	11.96	0.14	4.32	0.47		-5.64	
27-Sep-89	0.08	0.85	0.02	78.27	122.68	44.41	199.79	4921.92	11.98	1.13	0.33	0.04		-7.33	
28-Sep-89	0.15	0.85	0.00	78.27	122.74	44.47	200.04	4933.92	11.99	2.13				-12.76	
29-Sep-89	0.16	0.85	0.38	78.31	122.80	44.49	200.29	4945.93	12.01	2.27	6.34	0.69		-14.14	
30-Sep-89	0.18	0.85	0.00	78.30	122.79	44.49	200.24	4943.42	-2.50	2.55				7.26	
01-Oct-89	0.24	0.76	0.57	78.32	122.78	44.45	200.18	4940.92	-2.50	3.04	9.51	1.03		-0.05	
02-Oct-89	0.21	0.76	1.30	78.34	122.76	44.42	200.13	4938.42	-2.50	2.66	21.68	2.36		10.00	
03-Oct-89	0.18	0.76	0.00	78.32	122.75	44.43	200.08	4935.92	-2.50	2.28				23.88	
04-Oct-89	0.15	0.76	0.00	78.32	122.74	44.41	200.03	4933.42	-2.50	1.90				0.22	
05-Oct-89	0.20	0.76	0.00	78.28	122.73	44.45	199.98	4930.92	-2.50	2.53				0.60	
06-Oct-89	0.19	0.76	0.00	78.26	122.71	44.45	199.92	4928.42	-2.50	2.41				-0.03	
07-Oct-89	0.21	0.76	0.00	78.28	122.70	44.42	199.87	4925.92	-2.50	2.66				0.09	
08-Oct-89	0.26	0.76	0.25	78.32	122.67	44.35	199.74	4919.92	-5.99	3.29	4.16	0.45		3.34	

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
09-Oct-89	0.18	0.76	0.00	78.27	122.64	44.37	199.62	4913.93	-5.99	2.28			7.32	
10-Oct-89	0.11	0.76	0.00	78.31	122.62	44.31	199.54	4909.94	-3.99	1.39			1.72	
11-Oct-89	0.07	0.76	0.00	78.27	122.58	44.31	199.35	4900.97	-8.97	0.88			7.58	
12-Oct-89	0.13	0.76	0.05	78.22	122.53	44.31	199.16	4892.00	-8.97	1.64	0.83	0.09	8.08	
13-Oct-89	0.13	0.76	0.00	78.22	122.49	44.27	198.97	4883.04	-8.96	1.64			8.24	9.353E-04
14-Oct-89	0.16	0.76	0.00	78.21	122.44	44.23	198.78	4874.09	-8.95	2.01			7.31	8.315E-04
15-Oct-89	0.16	0.76	0.00	78.16	122.43	44.26	198.72	4871.25	-2.84	2.01			0.82	9.379E-05
16-Oct-89	0.08	0.76	0.00	78.14	122.41	44.27	198.66	4868.41	-2.84	1.01			0.82	9.378E-05
17-Oct-89	0.19	0.76	0.00	78.14	122.40	44.26	198.60	4865.58	-2.84	2.39			1.83	2.083E-04
18-Oct-89	0.15	0.76	0.27	78.18	122.38	44.20	198.54	4862.74	-2.84	1.89		0.49	0.45	5.092E-05
19-Oct-89	0.16	0.76	0.66	78.15	122.37	44.22	198.48	4859.90	-2.84	2.01	10.92	1.20	5.91	6.730E-04
20-Oct-89	0.14	0.76	0.02	78.06	122.35	44.29	198.42	4857.07	-2.84	1.76	0.33	0.04	12.94	1.472E-03
21-Oct-89	0.15	0.76	0.00	77.99	122.34	44.35	198.36	4854.24	-2.83	1.88			1.44	1.639E-04
22-Oct-89	0.13	0.76	0.00	77.99	122.33	44.34	198.31	4851.59	-2.64	1.63			0.76	8.644E-05
23-Oct-89	0.14	0.76	0.00	78.02	122.31	44.29	198.25	4848.95	-2.64	1.76			1.01	1.151E-04
24-Oct-89	0.15	0.76	0.00	78.02	122.30	44.28	198.20	4846.30	-2.64	1.88			0.89	1.009E-04
25-Oct-89	0.17	0.76	0.00	78.04	122.29	44.25	198.14	4843.66	-2.64	2.13			0.76	8.661E-05
26-Oct-89	0.20	0.76	0.00	78.02	122.27	44.25	198.08	4841.02	-2.64	2.51			0.51	5.797E-05
27-Oct-89	0.11	0.76	0.00	78.04	122.26	44.22	198.03	4838.38	-2.64	1.38			0.13	1.504E-05
28-Oct-89	0.14	0.76	0.00	78.02	122.24	44.22	197.95	4834.42	-3.96	1.76			2.58	2.948E-04
29-Oct-89	0.22	0.76	0.00	78.06	122.22	44.16	197.86	4830.46	-3.96	2.76			2.20	2.521E-04
30-Oct-89	0.20	0.76	0.00	78.07	122.20	44.13	197.78	4826.51	-3.96	2.51			1.20	1.374E-04
31-Oct-89	0.01	0.76	0.00	77.98	122.18	44.20	197.69	4822.55	-3.95	0.13			1.45	1.659E-04
01-Nov-89	0.08	0.71	0.00	77.93	122.16	44.23	197.61	4818.60	-3.95	0.94			3.83	4.379E-04
02-Nov-89	0.12	0.71	0.00	77.93	122.14	44.21	197.53	4814.65	-3.95	1.40			3.02	3.454E-04
03-Nov-89	0.16	0.71	0.00	77.89	122.12	44.23	197.44	4810.70	-3.95	1.87			2.55	2.917E-04
04-Nov-89	0.09	0.71	0.00	77.81	122.10	44.29	197.36	4806.75	-3.95	1.05			2.08	2.378E-04
05-Nov-89	0.12	0.71	0.00	77.78	122.09	44.32	197.34	4805.62	-1.13	1.40			0.08	8.777E-06
06-Nov-89	0.15	0.71	0.00	77.81	122.09	44.28	197.31	4804.49	-1.13	1.75			-0.27	
07-Nov-89	0.12	0.71	0.00	77.83	122.08	44.25	197.29	4803.37	-1.13	1.40			-0.62	
08-Nov-89	0.13	0.71	0.00	77.87	122.08	44.21	197.26	4802.24	-1.13	1.52			-0.27	
09-Nov-89	0.13	0.71	1.02	77.90	122.07	44.17	197.24	4801.11	-1.13	1.52	16.77	1.85	-0.39	
10-Nov-89	0.07	0.71	0.03	77.85	122.07	44.22	197.22	4799.98	-1.13	0.82	0.49	0.05	18.22	2.090E-03
11-Nov-89	0.12	0.71	0.00	77.79	122.06	44.27	197.19	4798.86	-1.13	1.40			0.86	9.822E-05
12-Nov-89	0.13	0.71	0.00	77.77	122.05	44.28	197.13	4796.04	-2.82	1.52			1.42	1.623E-04
13-Nov-89	0.11	0.71	0.00	77.78	122.03	44.26	197.07	4793.22	-2.82	1.28			1.30	1.490E-04
14-Nov-89	0.14	0.71	0.00	77.82	122.02	44.20	197.01	4790.41	-2.81	1.63			1.53	1.760E-04
15-Nov-89	0.05	0.71	0.00	77.88	122.00	44.12	196.95	4787.60	-2.81	0.58			1.18	1.360E-04
16-Nov-89	0.08	0.71	0.09	77.91	121.99	44.08	196.89	4784.78	-2.81	0.93	1.48	0.16	2.23	2.570E-04
17-Nov-89	0.13	0.71	0.00	77.84	121.97	44.14	196.83	4781.97	-2.81	1.51			3.52	4.052E-04
18-Nov-89	0.10	0.71	0.00	77.72	121.96	44.24	196.77	4779.16	-2.81	1.16			1.30	1.491E-04
19-Nov-89	0.08	0.71	0.00	77.69	121.95	44.26	196.74	4777.47	-1.69	0.93			0.52	5.997E-05
20-Nov-89	0.08	0.71	0.00	77.77	121.94	44.18	196.70	4775.79	-1.69	0.93			0.75	8.688E-05
21-Nov-89	0.14	0.71	0.00	77.84	121.93	44.10	196.67	4774.10	-1.69	1.63			0.75	8.704E-05
22-Nov-89	0.09	0.71	0.00	77.83	121.93	44.10	196.63	4772.41	-1.69	1.05			0.06	6.517E-06
23-Nov-89	0.07	0.71	0.62	77.81	121.92	44.11	196.59	4770.73	-1.69	0.81	10.16	1.12	0.64	7.360E-05
24-Nov-89	0.09	0.71	0.00	77.69	121.91	44.22	196.56	4769.04	-1.68	1.05			12.15	1.398E-03
25-Nov-89	0.11	0.71	0.00	77.73	121.90	44.17	196.52	4767.36	-1.68	1.28			0.64	7.350E-05
26-Nov-89	0.07	0.71	0.05	77.79	121.89	44.09	196.46	4764.55	-2.81	0.81	0.82	0.09	1.53	1.764E-04
27-Nov-89	0.10	0.71	0.00	77.79	121.87	44.08	196.40	4761.75	-2.81	1.16			2.90	3.352E-04
28-Nov-89	0.04	0.71	0.00	77.79	121.86	44.07	196.34	4758.94	-2.81	0.46			1.64	1.899E-04
29-Nov-89	0.07	0.71	0.00	77.77	121.84	44.08	196.28	4756.14	-2.80	0.81			2.34	2.705E-04
30-Nov-89	0.21	0.71	0.00	77.65	121.83	44.18	196.22	4753.33	-2.80	2.44			1.99	2.296E-04
01-Dec-89	0.10	0.83	0.00	77.68	121.81	44.14	196.16	4750.53	-2.80	1.36			0.36	4.212E-05
02-Dec-89	0.11	0.83	0.00	77.69	121.80	44.11	196.10	4747.73	-2.80	1.49			1.45	1.670E-04
03-Dec-89	0.17	0.83	0.00	77.69	121.79	44.10	196.05	4745.11	-2.61	2.31			1.12	1.298E-04
04-Dec-89	0.13	0.83	0.00	77.64	121.77	44.13	195.99	4742.50	-2.61	1.76			0.31	3.566E-05
05-Dec-89	0.09	0.83	0.00	77.68	121.76	44.08	195.94	4739.89	-2.61	1.22			0.85	9.847E-05
06-Dec-89	0.11	0.83	0.00	77.70	121.75	44.05	195.88	4737.28	-2.61	1.49			1.39	1.614E-04
07-Dec-89	0.08	0.83	0.00	77.64	121.73	44.09	195.83	4734.66	-2.61	1.08			1.12	1.298E-04
08-Dec-89	0.11	0.83	0.00	77.75	121.72	43.97	195.77	4732.05	-2.61	1.49			1.53	1.774E-04
09-Dec-89	0.13	0.83	1.67	77.77	121.76	43.99	195.94	4739.89	7.83	1.76	27.27	3.03	-9.32	
10-Dec-89	0.15	0.83	0.02	77.63	121.75	44.11	195.88	4737.09	-2.80	2.03	0.33	0.04	31.33	3.626E-03
11-Dec-89	0.04	0.83	0.00	77.64	121.73	44.09	195.82	4734.29	-2.80	0.54			1.13	1.307E-04
12-Dec-89	0.08	0.83	0.00	77.73	121.72	43.99	195.76	4731.49	-2.80	1.08			2.26	2.619E-04
13-Dec-89	0.15	0.83	0.27	77.67	121.70	44.03	195.70	4728.70	-2.80	2.03	4.40	0.49	1.71	1.988E-04
14-Dec-89	0.09	0.83	0.00	77.50	121.69	44.19	195.64	4725.90	-2.80	1.22			5.66	6.544E-04
15-Dec-89	0.09	0.83	0.00	77.58	121.67	44.10	195.58	4723.11	-2.79	1.22			1.58	1.828E-04
16-Dec-89	0.06	0.83	0.25	77.59	121.66	44.07	195.52	4720.32	-2.79	0.81	4.07	0.45	1.58	1.829E-04
17-Dec-89	0.09	0.83	0.01	77.52	121.66	44.14	195.51	4719.76	-0.56	1.22	0.16	0.02	4.27	4.952E-04

MAGNOJA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
18-Dec-89	0.05	0.83	0.05	77.53	121.65	44.12	195.49	4719.20	-0.56	0.68	0.81	0.09	-0.48	
19-Dec-89	0.01	0.83	0.43	77.58	121.65	44.07	195.48	4718.64	-0.56	0.14	7.00	0.78	0.79	9.143E-05
20-Dec-89	0.01	0.83	0.64	77.56	121.65	44.09	195.47	4718.08	-0.56	0.14	10.43	1.16	8.21	9.524E-04
21-Dec-89	0.04	0.83	0.00	77.53	121.65	44.11	195.46	4717.52	-0.56	0.54			12.01	1.393E-03
22-Dec-89	0.07	0.83	0.00	77.46	121.64	44.18	195.45	4716.96	-0.56	0.95			0.02	2.046E-06
23-Dec-89	0.05	0.83	0.36	77.35	121.64	44.29	195.43	4716.41	-0.56	0.68	5.86	0.65	-0.39	
24-Dec-89	0.05	0.83	0.27	77.26	121.63	44.38	195.41	4715.29	-1.12	0.68	4.40	0.49	6.96	8.022E-04
25-Dec-89	0.05	0.83	0.05	77.18	121.63	44.44	195.39	4714.17	-1.12	0.68	0.81	0.09	5.33	6.134E-04
26-Dec-89	0.08	0.83	0.00	77.18	121.62	44.44	195.36	4713.06	-1.12	1.08			1.35	1.550E-04
27-Dec-89	0.08	0.83	0.00	77.26	121.62	44.36	195.34	4711.94	-1.12	1.08			0.04	4.072E-06
28-Dec-89	0.10	0.83	0.00	77.33	121.61	44.28	195.32	4710.82	-1.12	1.35			0.04	4.079E-06
29-Dec-89	0.07	0.83	0.00	77.36	121.61	44.24	195.29	4709.71	-1.12	0.95			-0.23	
30-Dec-89	0.07	0.83	0.00	77.39	121.60	44.21	195.27	4708.59	-1.12	0.95			0.17	1.973E-05
31-Dec-89	0.11	0.83	0.00	77.45	121.59	44.14	195.24	4707.48	-1.12	1.49			0.17	1.976E-05
01-Jan-90	0.15	0.77	0.25	77.42	121.59	44.17	195.22	4706.36	-1.12	1.88	4.07	0.45	-0.37	
02-Jan-90	0.16	0.77	0.00	77.31	121.58	44.27	195.20	4705.24	-1.12	2.00			3.76	4.347E-04
03-Jan-90	0.12	0.77	0.00	77.37	121.58	44.20	195.17	4704.13	-1.12	1.50			-0.89	
04-Jan-90	0.10	0.77	0.00	77.40	121.57	44.17	195.15	4703.01	-1.12	1.25			-0.39	
05-Jan-90	0.05	0.77	0.00	77.44	121.57	44.13	195.12	4701.90	-1.12	0.63			-0.14	
06-Jan-90	0.05	0.77	0.00	77.47	121.56	44.09	195.10	4700.78	-1.11	0.63			0.49	5.684E-05
07-Jan-90	0.03	0.77	0.57	77.51	121.55	44.04	195.06	4699.11	-1.67	0.38	9.27	1.03	1.05	1.218E-04
08-Jan-90	0.07	0.77	0.46	77.50	121.54	44.04	195.03	4697.44	-1.67	0.88	7.48	0.83	11.80	1.350E-03
09-Jan-90	0.15	0.77	0.00	77.37	121.53	44.16	194.99	4695.77	-1.67	1.88			9.11	1.057E-03
10-Jan-90	0.06	0.77	0.00	77.40	121.53	44.13	194.96	4694.10	-1.67	0.75			-0.21	
11-Jan-90	0.09	0.77	0.00	77.41	121.52	44.11	194.92	4692.43	-1.67	1.13			0.92	1.070E-04
12-Jan-90	0.10	0.77	0.00	77.45	121.51	44.06	194.88	4690.76	-1.67	1.25			0.54	6.347E-05
13-Jan-90	0.23	0.77	0.00	77.28	121.50	44.22	194.85	4689.09	-1.67	2.88			0.42	4.872E-05
14-Jan-90	0.13	0.77	0.00	77.23	121.49	44.26	194.81	4687.42	-1.67	1.63			-1.21	
15-Jan-90	0.10	0.77	0.00	77.26	121.48	44.23	194.78	4685.75	-1.67	1.25			0.04	5.178E-06
16-Jan-90	0.13	0.77	0.00	77.26	121.47	44.22	194.74	4684.08	-1.67	1.62			0.42	4.872E-05
17-Jan-90	0.13	0.77	0.00	77.29	121.47	44.17	194.71	4682.41	-1.67	1.62			0.04	5.184E-06
18-Jan-90	0.11	0.77	0.00	77.32	121.46	44.14	194.67	4680.74	-1.67	1.37			0.04	5.189E-06
19-Jan-90	0.10	0.77	0.00	77.35	121.45	44.10	194.63	4679.07	-1.67	1.25			0.29	3.430E-05
20-Jan-90	0.13	0.77	0.00	77.34	121.44	44.10	194.60	4677.40	-1.67	1.62			0.42	4.885E-05
21-Jan-90	0.15	0.77	0.00	77.35	121.43	44.07	194.54	4674.68	-2.72	1.87			1.10	1.284E-04
22-Jan-90	0.08	0.77	0.00	77.35	121.41	44.07	194.48	4671.96	-2.72	1.00			0.85	9.926E-05
23-Jan-90	0.15	0.77	0.00	77.31	121.40	44.09	194.42	4669.23	-2.72	1.87			1.72	2.011E-04
24-Jan-90	0.13	0.77	0.00	77.33	121.38	44.06	194.36	4666.51	-2.72	1.62			0.85	9.929E-05
25-Jan-90	0.12	0.77	0.00	77.36	121.37	44.01	194.30	4663.79	-2.72	1.50			1.10	1.286E-04
26-Jan-90	0.20	0.77	0.21	77.26	121.35	44.09	194.22	4659.91	-3.89	2.49	3.40	0.38	2.39	2.790E-04
27-Jan-90	0.15	0.77	0.00	77.12	121.34	44.22	194.18	4657.96	-1.94	1.87			3.23	3.761E-04
28-Jan-90	0.13	0.77	0.00	77.26	121.34	44.08	194.18	4657.96	0.00	1.62			-1.87	
29-Jan-90	0.12	0.77	0.00	77.42	121.34	43.92	194.18	4657.96	0.00	1.50			-1.62	
30-Jan-90	0.11	0.77	0.00	77.38	121.34	43.96	194.18	4657.96	0.00	1.37			-1.50	
31-Jan-90	0.09	0.77	0.39	77.35	121.34	43.99	194.18	4657.96	0.00	1.12	6.31	0.71	-1.37	
01-Feb-90	0.12	0.69	0.00	77.28	121.34	44.06	194.18	4657.96	0.00	1.34			5.90	6.893E-04
02-Feb-90	0.09	0.69	0.00	77.27	121.34	44.07	194.18	4657.96	0.00	1.00			-1.34	
03-Feb-90	0.13	0.69	0.00	77.27	121.34	44.07	194.18	4657.96	0.00	1.45			-1.00	
04-Feb-90	0.16	0.69	0.00	77.30	121.34	44.04	194.18	4657.96	0.00	1.79			-1.45	
05-Feb-90	0.20	0.69	0.00	77.26	121.34	44.08	194.18	4657.96	0.00	2.23			-1.79	
06-Feb-90	0.22	0.69	0.00	77.16	121.34	44.18	194.18	4657.96	0.00	2.46			-2.23	
07-Feb-90	0.10	0.69	0.00	77.18	121.34	44.16	194.18	4657.96	0.00	1.12			-2.46	
08-Feb-90	0.14	0.69	0.00	77.17	121.34	44.17	194.18	4657.96	0.00	1.56			-1.12	
09-Feb-90	0.12	0.69	0.00	77.18	121.34	44.16	194.18	4657.96	0.00	1.34			-1.56	
10-Feb-90	0.16	0.69	0.00	77.25	121.34	44.09	194.18	4657.96	0.00	1.79			-1.34	
11-Feb-90	0.07	0.69	0.89	77.27	121.33	44.06	194.14	4656.30	-1.66	0.78	14.40	1.61	-0.12	
12-Feb-90	0.15	0.69	0.00	77.17	121.32	44.15	194.11	4654.64	-1.66	1.67			16.90	1.972E-03
13-Feb-90	0.18	0.69	0.00	77.10	121.31	44.21	194.07	4652.97	-1.66	2.01			-0.01	
14-Feb-90	0.15	0.69	0.00	77.11	121.31	44.19	194.04	4651.31	-1.66	1.67			-0.35	
15-Feb-90	0.15	0.69	0.00	77.12	121.30	44.18	194.00	4649.65	-1.66	1.67			-0.01	
16-Feb-90	0.17	0.69	0.00	77.16	121.29	44.13	193.96	4647.98	-1.66	1.90			-0.01	
17-Feb-90	0.16	0.69	0.47	77.17	121.28	44.11	193.93	4646.32	-1.66	1.78	7.60	0.85	-0.23	
18-Feb-90	0.17	0.69	0.13	77.17	121.29	44.13	193.98	4648.54	2.22	1.90	2.10	0.24	4.45	5.196E-04
19-Feb-90	0.00	0.69	0.01	77.24	121.30	44.07	194.02	4650.75	2.22	0.00	0.18	0.02	-1.78	
20-Feb-90	0.16	0.69	0.15	77.25	121.31	44.07	194.07	4652.97	2.22	1.79	2.43	0.27	-2.04	
21-Feb-90	0.05	0.69	0.00	77.24	121.33	44.09	194.12	4655.19	2.22	0.56			-1.31	
22-Feb-90	0.02	0.69	0.00	77.30	121.34	44.04	194.17	4657.41	2.22	0.22			-2.78	
23-Feb-90	0.18	0.69	1.07	77.41	121.35	43.94	194.22	4659.63	2.22	2.01	17.32	1.94	-2.44	
24-Feb-90	0.14	0.69	0.14	77.35	121.36	44.01	194.26	4661.85	2.22	1.56	2.27	0.25	15.03	1.758E-03
25-Feb-90	0.18	0.69	0.00	77.27	121.34	44.07	194.18	4657.96	-3.88	2.01			4.84	5.657E-04

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
26-Feb-90	0.21	0.69	0.00	77.23	121.32	44.09	194.10	4654.08	-3.88	2.34			1.87	2.189E-04
27-Feb-90	0.15	0.69	0.00	77.24	121.30	44.06	194.01	4650.20	-3.88	1.67			1.54	1.798E-04
28-Feb-90	0.16	0.69	0.00	77.31	121.28	43.97	193.93	4646.32	-3.88	1.78			2.21	2.587E-04
01-Mar-90	0.12	0.73	0.00	77.35	121.26	43.91	193.84	4642.44	-3.88	1.42			2.09	2.460E-04
02-Mar-90	0.18	0.73	0.00	77.45	121.24	43.79	193.76	4638.57	-3.88	2.12			2.46	2.901E-04
03-Mar-90	0.13	0.73	0.43	77.56	121.22	43.66	193.68	4634.69	-3.87	1.53	6.94	0.78	1.75	2.073E-04
04-Mar-90	0.18	0.73	0.00	77.51	121.21	43.70	193.62	4632.11	-2.58	2.12			8.77	1.037E-03
05-Mar-90	0.15	0.73	0.00	77.44	121.19	43.76	193.57	4629.53	-2.58	1.77			0.46	5.444E-05
06-Mar-90	0.18	0.73	0.00	77.40	121.18	43.78	193.51	4626.95	-2.58	2.12			0.81	9.611E-05
07-Mar-90	0.19	0.73	0.00	77.38	121.17	43.79	193.45	4624.37	-2.58	2.24			0.46	5.440E-05
08-Mar-90	0.16	0.73	0.04	77.35	121.15	43.81	193.40	4621.79	-2.58	1.88	0.64	0.07	0.34	4.049E-05
09-Mar-90	0.18	0.73	0.00	77.35	121.14	43.79	193.34	4619.21	-2.58	2.12			1.41	1.669E-04
10-Mar-90	0.17	0.73	0.00	77.34	121.13	43.79	193.29	4616.63	-2.58	2.00			0.46	5.440E-05
11-Mar-90	0.13	0.73	0.00	77.28	121.11	43.83	193.23	4614.06	-2.58	1.53			0.58	6.823E-05
12-Mar-90	0.22	0.73	0.00	77.28	121.10	43.82	193.18	4611.48	-2.58	2.59			1.05	1.238E-04
13-Mar-90	0.21	0.73	0.00	77.28	121.09	43.80	193.12	4608.91	-2.58	2.47			-0.01	
14-Mar-90	0.23	0.73	0.00	77.28	121.07	43.79	193.06	4606.33	-2.57	2.70			0.11	1.271E-05
15-Mar-90	0.23	0.73	0.00	77.28	121.06	43.78	193.01	4603.76	-2.57	2.70			-0.13	
16-Mar-90	0.19	0.73	0.00	77.28	121.05	43.76	192.96	4601.34	-2.41	2.23			-0.29	
17-Mar-90	0.19	0.73	0.00	77.28	121.04	43.75	192.90	4598.93	-2.41	2.23			0.18	2.149E-05
18-Mar-90	0.14	0.73	0.58	77.27	121.02	43.75	192.85	4596.52	-2.41	1.64	9.32	1.05	0.18	2.149E-05
19-Mar-90	0.19	0.73	0.00	77.27	121.01	43.74	192.80	4594.11	-2.41	2.23			11.14	1.321E-03
20-Mar-90	0.20	0.73	0.00	77.26	121.00	43.74	192.75	4591.70	-2.41	2.35			0.18	2.149E-05
21-Mar-90	0.22	0.73	0.00	77.14	120.99	43.85	192.69	4589.29	-2.41	2.58			0.06	7.566E-06
22-Mar-90	0.18	0.73	0.00	77.06	120.97	43.91	192.64	4586.89	-2.41	2.11			-0.17	
23-Mar-90	0.18	0.73	0.00	77.13	120.96	43.83	192.59	4584.48	-2.41	2.11			0.30	3.533E-05
24-Mar-90	0.19	0.73	0.00	77.13	120.95	43.82	192.55	4582.55	-1.93	2.23			-0.18	
25-Mar-90	0.20	0.73	0.00	77.11	120.94	43.83	192.51	4580.63	-1.93	2.34			-0.30	
26-Mar-90	0.19	0.73	0.00	77.09	120.93	43.84	192.46	4578.70	-1.92	2.22			-0.42	
27-Mar-90	0.20	0.73	0.00	77.09	120.92	43.83	192.42	4576.78	-1.92	2.34			-0.30	
28-Mar-90	0.18	0.73	0.00	77.07	120.91	43.84	192.38	4574.85	-1.92	2.11			-0.42	
29-Mar-90	0.22	0.73	1.09	77.07	120.90	43.83	192.34	4572.93	-1.92	2.57	17.47	1.98	-0.18	
30-Mar-90	0.18	0.73	0.00	77.07	120.89	43.82	192.30	4571.01	-1.92	2.11			18.80	2.230E-03
31-Mar-90	0.24	0.73	1.48	77.14	120.88	43.74	192.25	4569.08	-1.92	2.81	23.71	2.68	-0.18	
01-Apr-90	0.14	0.84	0.00	77.14	120.87	43.73	192.21	4567.16	-1.92	1.88			25.51	3.035E-03
02-Apr-90	0.17	0.84	0.00	77.11	120.86	43.75	192.17	4565.24	-1.92	2.29			0.04	4.548E-06
03-Apr-90	0.21	0.84	2.11	77.20	120.85	43.65	192.13	4563.32	-1.92	2.82	33.78	3.83	-0.37	
04-Apr-90	0.29	0.84	0.00	77.19	120.84	43.65	192.09	4561.40	-1.92	3.90			36.71	4.378E-03
05-Apr-90	0.24	0.84	0.00	77.13	120.83	43.70	192.05	4559.48	-1.92	3.23			-1.98	
06-Apr-90	0.21	0.84	0.00	77.13	120.82	43.69	192.00	4557.56	-1.92	2.82			-1.31	
07-Apr-90	0.25	0.84	0.00	77.08	120.80	43.72	191.91	4553.17	-4.39	3.36			1.57	1.865E-04
08-Apr-90	0.21	0.84	0.00	76.94	120.77	43.83	191.81	4548.78	-4.39	2.82			1.03	1.221E-04
09-Apr-90	0.27	0.84	0.00	76.91	120.75	43.85	191.72	4544.40	-4.38	3.62			1.56	1.860E-04
10-Apr-90	0.21	0.84	0.00	76.92	120.73	43.80	191.62	4540.02	-4.38	2.82			0.76	9.025E-05
11-Apr-90	0.19	0.84	0.01	77.03	120.71	43.67	191.53	4535.64	-4.38	2.55	0.16	0.02	1.56	1.867E-04
12-Apr-90	0.21	0.84	0.00	76.99	120.68	43.70	191.43	4531.26	-4.38	2.81			2.01	2.399E-04
13-Apr-90	0.26	0.84	0.00	76.91	120.66	43.75	191.33	4526.89	-4.37	3.48			1.56	1.864E-04
14-Apr-90	0.25	0.84	0.00	76.89	120.65	43.76	191.27	4524.02	-2.87	3.35			-0.61	
15-Apr-90	0.21	0.84	0.00	76.89	120.63	43.74	191.21	4521.15	-2.87	2.81			-0.48	
16-Apr-90	0.16	0.84	0.00	76.89	120.62	43.73	191.15	4518.28	-2.87	2.14			0.06	6.807E-06
17-Apr-90	0.23	0.84	0.00	76.86	120.60	43.74	191.08	4515.42	-2.87	3.08			0.73	8.685E-05
18-Apr-90	0.23	0.84	0.00	76.78	120.58	43.80	191.00	4511.60	-3.82	3.08			0.74	8.898E-05
19-Apr-90	0.27	0.84	0.00	76.74	120.57	43.83	190.96	4509.69	-1.91	3.61			-1.17	
20-Apr-90	0.18	0.84	0.00	76.72	120.56	43.84	190.92	4507.78	-1.91	2.41			-1.70	
21-Apr-90	0.27	0.84	0.00	76.75	120.56	43.81	190.92	4507.78	0.00	3.61			-2.41	
22-Apr-90	0.16	0.84	0.00	76.82	120.55	43.73	190.87	4505.49	-2.29	2.14			-1.32	
23-Apr-90	0.21	0.84	0.50	76.82	120.54	43.71	190.81	4503.20	-2.29	2.80	7.95	0.91	0.15	1.827E-05
24-Apr-90	0.12	0.84	0.12	76.83	120.52	43.69	190.76	4500.91	-2.29	1.60	1.91	0.22	8.34	1.001E-03
25-Apr-90	0.27	0.84	0.00	76.81	120.51	43.71	190.71	4498.62	-2.29	3.60			2.81	3.373E-04
26-Apr-90	0.27	0.84	0.00	76.78	120.50	43.72	190.66	4496.33	-2.29	3.60			-1.32	
27-Apr-90	0.28	0.84	0.00	76.75	120.49	43.74	190.64	4495.01	-1.32	3.74			-2.28	
28-Apr-90	0.31	0.84	0.00	76.79	120.49	43.70	190.61	4493.69	-1.32	4.14			-2.42	
29-Apr-90	0.17	0.84	0.93	76.82	120.48	43.65	190.58	4492.37	-1.32	2.27	14.77	1.69	-2.82	
30-Apr-90	0.23	0.84	0.00	76.76	120.47	43.71	190.55	4491.05	-1.32	3.07			15.51	1.862E-03
01-May-90	0.28	0.82	0.00	76.76	120.47	43.70	190.52	4489.73	-1.32	3.65			-1.75	
02-May-90	0.29	0.82	0.00	76.68	120.46	43.78	190.49	4488.41	-1.32	3.77			-2.33	
03-May-90	0.33	0.82	0.00	76.65	120.45	43.81	190.46	4487.09	-1.32	4.29			-2.46	
04-May-90	0.27	0.82	0.00	76.60	120.44	43.84	190.43	4485.78	-1.32	3.51			-2.98	
05-May-90	0.19	0.82	0.00	76.70	120.44	43.74	190.40	4484.46	-1.32	2.47			-2.20	
06-May-90	0.30	0.82	0.00	76.66	120.43	43.77	190.37	4483.14	-1.32	3.90			-1.15	

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
07-May-90	0.17	0.82	0.00	76.56	120.42	43.86	190.35	4481.82	-1.32	2.21				-2.58
08-May-90	0.32	0.82	0.00	76.51	120.42	43.91	190.32	4480.50	-1.32	4.16				-0.89
09-May-90	0.25	0.82	0.01	76.53	120.41	43.88	190.29	4479.19	-1.32	3.25	0.16	0.02		-2.84
10-May-90	0.10	0.82	0.53	76.65	120.40	43.76	190.26	4477.87	-1.32	1.30	8.40	0.96		-1.76
11-May-90	0.31	0.82	0.00	76.54	120.40	43.86	190.23	4476.55	-1.32	4.03				9.38 1.124E-03
12-May-90	0.32	0.82	0.00	76.48	120.39	43.91	190.20	4475.24	-1.32	4.16				-2.71
13-May-90	0.27	0.82	0.00	76.46	120.38	43.93	190.17	4473.92	-1.32	3.51				-2.84
14-May-90	0.34	0.82	0.00	76.43	120.38	43.95	190.14	4472.60	-1.32	4.42				-2.19
15-May-90	0.32	0.82	1.34	76.41	120.37	43.96	190.11	4471.29	-1.32	4.16	21.23	2.43		-3.10
16-May-90	0.20	0.82	0.00	76.47	120.36	43.90	190.08	4469.97	-1.32	2.60				20.82 2.495E-03
17-May-90	0.32	0.82	0.00	76.47	120.35	43.89	190.06	4468.65	-1.32	4.16				-1.28
18-May-90	0.31	0.82	0.00	76.45	120.35	43.90	190.03	4467.34	-1.32	4.03				-2.84
19-May-90	0.31	0.82	0.00	76.42	120.34	43.92	190.00	4466.02	-1.32	4.02				-2.71
20-May-90	0.23	0.82	0.00	76.44	120.33	43.89	189.97	4464.71	-1.32	2.99				-2.71
21-May-90	0.33	0.82	0.00	76.41	120.33	43.91	189.94	4463.39	-1.32	4.28				-1.67
22-May-90	0.23	0.82	0.03	76.40	120.32	43.92	189.91	4462.08	-1.31	2.98	0.47	0.05		-2.97
23-May-90	0.16	0.82	0.00	76.40	120.30	43.89	189.81	4457.65	-4.43	2.08				1.97 2.370E-04
24-May-90	0.26	0.82	0.00	76.33	120.27	43.94	189.72	4453.22	-4.43	3.37				2.35 2.822E-04
25-May-90	0.30	0.82	0.00	76.24	120.25	44.01	189.62	4448.79	-4.43	3.89				1.05 1.264E-04
26-May-90	0.17	0.82	0.00	76.21	120.30	44.09	189.83	4458.28	9.49	2.21				-13.37
27-May-90	0.29	0.82	0.00	76.24	120.27	44.03	189.71	4453.13	-5.15	3.76				2.95 3.526E-04
28-May-90	0.33	0.82	1.27	76.24	120.25	44.00	189.60	4447.98	-5.15	4.28	20.07	2.30		1.39 1.664E-04
29-May-90	0.27	0.82	0.00	76.16	120.22	44.06	189.49	4442.84	-5.14	3.50				23.24 2.784E-03
30-May-90	0.29	0.82	0.00	76.10	120.19	44.09	189.37	4437.69	-5.14	3.75				1.65 1.971E-04
31-May-90	0.33	0.82	0.00	76.04	120.16	44.13	189.26	4432.56	-5.14	4.27				1.39 1.659E-04
01-Jun-90	0.28	0.85	0.00	75.97	120.06	44.09	188.82	4412.84	-19.71	3.74				15.45 1.855E-03
02-Jun-90	0.32	0.85	0.00	75.92	120.06	44.14	188.83	4413.26	0.42	4.28				-4.16
03-Jun-90	0.27	0.85	0.15	76.03	120.06	44.04	188.84	4413.68	0.42	3.61	2.36	0.27		-4.70
04-Jun-90	0.28	0.85	0.00	76.06	120.07	44.00	188.85	4414.10	0.42	3.75				-1.40
05-Jun-90	0.04	0.85	1.15	76.12	120.07	43.94	188.86	4414.52	0.42	0.54	18.10	2.09		-4.17
06-Jun-90	0.20	0.85	0.00	76.09	120.07	43.98	188.87	4414.94	0.42	2.68				19.23 2.315E-03
07-Jun-90	0.25	0.85	0.26	76.14	120.07	43.93	188.88	4415.36	0.42	3.34	4.09	0.47		-3.10
08-Jun-90	0.19	0.85	0.14	76.21	120.08	43.87	188.89	4415.78	0.42	2.54	2.20	0.25		0.80 9.647E-05
09-Jun-90	0.17	0.85	0.03	76.19	120.08	43.89	188.90	4416.20	0.42	2.27	0.47	0.05		-0.50
10-Jun-90	0.19	0.85	0.00	76.17	120.08	43.91	188.91	4416.62	0.42	2.54				-2.17
11-Jun-90	0.20	0.85	0.01	76.18	120.08	43.90	188.92	4417.04	0.42	2.68	0.16	0.02		-2.96
12-Jun-90	0.32	0.85	0.00	76.16	120.08	43.92	188.93	4417.46	0.42	4.28				-2.92
13-Jun-90	0.37	0.85	0.00	76.10	120.09	43.99	188.93	4417.88	0.42	4.95				-4.70
14-Jun-90	0.30	0.85	0.00	76.06	120.09	44.03	188.94	4418.30	0.42	4.02				-5.37
15-Jun-90	0.25	0.85	0.00	76.07	120.09	44.02	188.95	4418.72	0.42	3.35				-4.43
16-Jun-90	0.27	0.85	0.00	76.02	120.09	44.08	188.96	4419.14	0.42	3.61				-3.77
17-Jun-90	0.24	0.85	0.01	75.99	120.10	44.11	188.97	4419.56	0.42	3.21	0.16	0.02		-4.03
18-Jun-90	0.25	0.85	0.45	75.96	120.10	44.13	188.98	4419.98	0.42	3.35	7.09	0.82		-3.46
19-Jun-90	0.30	0.85	0.00	76.04	120.10	44.06	188.99	4420.40	0.42	4.02				4.14 4.967E-04
20-Jun-90	0.30	0.85	0.00	75.92	120.10	44.18	188.99	4420.40	0.00	4.02				-4.02
21-Jun-90	0.32	0.85	0.00	75.86	120.10	44.24	188.99	4420.40	0.00	4.28				-4.02
22-Jun-90	0.31	0.85	0.01	75.90	120.10	44.20	188.99	4420.40	0.00	4.15	0.16	0.02		-4.28
23-Jun-90	0.16	0.85	2.86	76.09	120.12	44.03	189.05	4423.23	2.84	2.14	45.06	5.19		-6.81
24-Jun-90	0.13	0.85	0.64	76.21	120.13	43.92	189.12	4426.07	2.84	1.74	10.09	1.16		45.26 5.450E-03
25-Jun-90	0.15	0.85	0.00	76.18	120.15	43.97	189.18	4428.91	2.84	2.01				6.67 8.017E-04
26-Jun-90	0.26	0.85	0.00	76.13	120.16	44.03	189.24	4431.75	2.84	3.49				-4.85
27-Jun-90	0.10	0.85	3.26	76.12	120.18	44.06	189.30	4434.58	2.84	1.34	51.43	5.91		-6.32
28-Jun-90	0.16	0.85	0.00	76.09	120.19	44.10	189.37	4437.42	2.84	2.15				53.16 6.365E-03
29-Jun-90	0.22	0.85	0.00	76.07	120.21	44.13	189.43	4440.27	2.84	2.95				-4.99
30-Jun-90	0.24	0.85	0.08	76.12	120.22	44.10	189.49	4443.11	2.84	3.22	1.26	0.15		-5.79
01-Jul-90	0.27	0.91	0.00	76.23	120.21	43.98	189.45	4441.21	-1.89	3.88				0.08 9.805E-06
02-Jul-90	0.26	0.91	0.02	76.21	120.20	43.99	189.41	4439.32	-1.89	3.73	0.32	0.04		-1.98
03-Jul-90	0.19	0.91	0.68	76.20	120.19	43.99	189.37	4437.42	-1.89	2.73	10.73	1.23		-1.49
04-Jul-90	0.06	0.91	0.05	76.10	120.18	44.08	189.33	4435.53	-1.89	0.86	0.79	0.09		11.13 1.333E-03
05-Jul-90	0.18	0.91	0.00	76.08	120.17	44.09	189.28	4433.64	-1.89	2.58				1.91 2.290E-04
06-Jul-90	0.26	0.91	0.11	76.10	120.16	44.06	189.24	4431.75	-1.89	3.73	1.73	0.20		-0.69
07-Jul-90	0.32	0.91	0.00	76.02	120.15	44.13	189.20	4429.85	-1.89	4.59				0.10 1.140E-05
08-Jul-90	0.27	0.91	0.00	76.05	120.14	44.09	189.16	4427.96	-1.89	3.87				-2.70
09-Jul-90	0.30	0.91	0.00	75.97	120.13	44.16	189.12	4426.07	-1.89	4.30				-1.98
10-Jul-90	0.29	0.91	0.00	75.92	120.12	44.20	189.07	4424.18	-1.89	4.16				-2.41
11-Jul-90	0.28	0.91	0.05	75.90	120.11	44.21	189.03	4422.29	-1.89	4.01	0.79	0.09		-2.27
12-Jul-90	0.28	0.91	0.86	75.91	120.10	44.19	188.99	4420.40	-1.89	4.01	13.54	1.56		-1.25
13-Jul-90	0.32	0.91	1.13	76.04	120.09	44.05	188.95	4418.51	-1.89	4.59	17.79	2.05		12.98 1.559E-03
14-Jul-90	0.10	0.91	2.47	76.09	120.08	43.99	188.91	4416.62	-1.89	1.43	38.88	4.48		17.15 2.063E-03
15-Jul-90	0.05	0.91	2.63	76.14	120.07	43.93	188.86	4414.73	-1.89	0.72	41.39	4.77		43.82 5.282E-03

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
16-Jul-90	0.20	0.91	0.00	76.05	120.06	44.01	188.82	4412.84	-1.89	2.86			47.33	5.696E-03
17-Jul-90	0.21	0.91	0.18	76.04	120.05	44.01	188.78	4410.95	-1.89	3.01	2.83	0.33	-0.98	
18-Jul-90	0.22	0.91	0.00	76.02	120.04	44.02	188.74	4409.07	-1.89	3.15			2.04	2.454E-04
19-Jul-90	0.18	0.91	0.01	76.07	120.03	43.96	188.70	4407.18	-1.89	2.58	0.16	0.02	-1.26	
20-Jul-90	0.27	0.91	1.32	76.09	120.02	43.93	188.66	4405.29	-1.89	3.86	20.75	2.39	-0.51	
21-Jul-90	0.22	0.91	0.53	76.12	120.05	43.93	188.80	4411.58	6.29	3.15	8.34	0.96	12.99	1.567E-03
22-Jul-90	0.24	0.91	0.25	76.16	120.09	43.93	188.93	4417.88	6.30	3.44	3.94	0.45	-0.15	
23-Jul-90	0.24	0.91	0.00	76.17	120.12	43.95	189.07	4424.18	6.30	3.44			-5.35	
24-Jul-90	0.32	0.91	0.00	76.14	120.10	43.96	189.01	4421.12	-3.06	4.59			-0.38	
25-Jul-90	0.30	0.91	0.00	76.11	120.09	43.98	188.94	4418.06	-3.06	4.30			-1.53	
26-Jul-90	0.27	0.91	0.00	76.06	120.07	44.01	188.87	4415.00	-3.06	3.87			-1.24	
27-Jul-90	0.31	0.91	0.00	76.06	120.06	43.99	188.80	4411.94	-3.06	4.44			-0.81	
28-Jul-90	0.32	0.91	0.07	76.13	120.04	43.91	188.74	4408.89	-3.06	4.58	1.10	0.13	-1.38	
29-Jul-90	0.12	0.91	0.00	76.21	120.02	43.81	188.67	4405.83	-3.06	1.72			-0.30	
30-Jul-90	0.27	0.91	0.00	76.12	120.01	43.88	188.60	4402.78	-3.05	3.86			1.34	1.616E-04
31-Jul-90	0.28	0.91	0.00	76.08	119.99	43.91	188.53	4399.72	-3.05	4.00			-0.81	
01-Aug-90	0.28	0.91	0.00	75.98	119.97	43.99	188.46	4396.67	-3.05	4.00			-0.95	
02-Aug-90	0.29	0.91	0.00	75.95	119.96	44.00	188.40	4393.62	-3.05	4.14			-0.95	
03-Aug-90	0.21	0.91	0.05	75.96	119.94	43.98	188.33	4390.57	-3.05	3.00	0.78	0.09	-1.09	
04-Aug-90	0.16	0.91	0.36	75.92	119.93	44.01	188.26	4387.52	-3.05	2.28	5.65	0.65	0.92	1.116E-04
05-Aug-90	0.24	0.91	0.00	75.91	119.91	44.00	188.19	4384.48	-3.05	3.43			7.06	8.531E-04
06-Aug-90	0.31	0.91	0.00	75.85	119.89	44.05	188.13	4381.43	-3.05	4.42			-0.38	
07-Aug-90	0.27	0.91	0.00	75.89	119.88	43.99	188.06	4378.38	-3.05	3.85			-1.38	
08-Aug-90	0.15	0.91	2.35	75.89	119.86	43.97	187.99	4375.34	-3.04	2.14	36.81	4.26	-0.81	
09-Aug-90	0.10	0.91	0.11	75.90	119.84	43.94	187.92	4372.30	-3.04	1.43	1.72	0.20	41.98	5.084E-03
10-Aug-90	0.06	0.91	0.09	75.90	119.83	43.93	187.85	4369.25	-3.04	0.85	1.41	0.16	3.54	4.289E-04
11-Aug-90	0.16	0.91	0.21	75.89	119.81	43.92	187.79	4366.21	-3.04	2.28	3.29	0.38	3.76	4.557E-04
12-Aug-90	0.17	0.91	0.03	75.88	119.80	43.91	187.72	4363.17	-3.04	2.42	0.47	0.05	4.43	5.372E-04
13-Aug-90	0.23	0.91	0.00	75.84	119.78	43.94	187.65	4360.14	-3.04	3.27			1.14	1.385E-04
14-Aug-90	0.20	0.91	0.67	75.92	119.77	43.95	187.60	4357.99	-2.14	2.85	10.47	1.21	-1.13	
15-Aug-90	0.14	0.91	0.14	75.78	119.76	43.97	187.56	4355.85	-2.14	1.99	2.19	0.25	10.99	1.332E-03
16-Aug-90	0.18	0.91	0.01	75.79	119.75	43.95	187.51	4353.70	-2.14	2.56	0.16	0.02	2.59	3.148E-04
17-Aug-90	0.22	0.91	0.00	75.86	119.73	43.88	187.46	4351.56	-2.14	3.13			-0.24	
18-Aug-90	0.26	0.91	0.50	75.91	119.72	43.81	187.41	4349.42	-2.14	3.70	7.81	0.91	-0.99	
19-Aug-90	0.25	0.91	0.00	75.83	119.71	43.88	187.36	4347.28	-2.14	3.55			7.16	8.711E-04
20-Aug-90	0.28	0.91	0.00	75.79	119.70	43.91	187.32	4345.14	-2.14	3.98			-1.41	
21-Aug-90	0.27	0.91	1.52	75.77	119.68	43.91	187.22	4340.64	-4.49	3.83	23.71	2.76	0.52	6.289E-05
22-Aug-90	0.26	0.91	0.05	75.77	119.65	43.88	187.12	4336.15	-4.49	3.69	0.78	0.09	27.13	3.304E-03
23-Aug-90	0.14	0.91	0.23	75.76	119.63	43.87	187.02	4331.66	-4.49	1.99	3.58	0.42	1.67	2.036E-04
24-Aug-90	0.10	0.91	0.00	75.71	119.60	43.89	186.91	4327.17	-4.49	1.42			6.50	7.927E-04
25-Aug-90	0.23	0.91	0.00	75.74	119.58	43.84	186.81	4322.69	-4.48	3.26			3.07	3.745E-04
26-Aug-90	0.19	0.91	0.00	75.78	119.56	43.78	186.73	4318.95	-3.74	2.69			0.48	5.837E-05
27-Aug-90	0.22	0.91	0.00	75.78	119.54	43.76	186.65	4315.22	-3.73	3.11			1.04	1.277E-04
28-Aug-90	0.34	0.91	1.35	75.78	119.52	43.74	186.56	4311.49	-3.73	4.81	20.99	2.45	0.62	7.576E-05
29-Aug-90	0.21	0.91	0.00	75.73	119.50	43.77	186.48	4307.76	-3.73	2.97			22.36	2.739E-03
30-Aug-90	0.26	0.91	0.00	75.67	119.48	43.81	186.40	4304.03	-3.73	3.68			0.76	9.295E-05
31-Aug-90	0.21	0.91	0.43	75.66	119.46	43.80	186.31	4300.30	-3.73	2.97	6.68	0.78	0.05	6.369E-06
01-Sep-90	0.13	0.85	0.00	75.65	119.44	43.79	186.23	4296.58	-3.73	1.71			8.21	1.007E-03
02-Sep-90	0.25	0.85	0.29	75.65	119.42	43.77	186.16	4293.38	-3.19	3.30	4.50	0.53	1.48	1.813E-04
03-Sep-90	0.17	0.85	0.11	75.64	119.41	43.76	186.09	4290.19	-3.19	2.24	1.71	0.20	4.92	6.040E-04
04-Sep-90	0.24	0.85	0.00	75.64	119.39	43.75	186.01	4287.00	-3.19	3.16			2.85	3.507E-04
05-Sep-90	0.18	0.85	0.00	75.63	119.37	43.74	185.94	4283.82	-3.19	2.37			0.03	3.192E-06
06-Sep-90	0.18	0.85	0.18	75.62	119.35	43.73	185.87	4280.63	-3.19	2.37	2.79	0.33	0.82	1.004E-04
07-Sep-90	0.21	0.85	0.00	75.62	119.34	43.72	185.80	4277.44	-3.19	2.76			3.93	4.839E-04
08-Sep-90	0.20	0.85	0.00	75.61	119.32	43.71	185.73	4274.26	-3.18	2.63			0.42	5.183E-05
09-Sep-90	0.23	0.85	0.00	75.61	119.30	43.69	185.64	4270.54	-3.71	3.02			1.08	1.335E-04
10-Sep-90	0.19	0.85	0.00	75.60	119.28	43.68	185.56	4266.83	-3.71	2.50			0.69	8.483E-05
11-Sep-90	0.15	0.85	0.00	75.59	119.26	43.67	185.48	4263.12	-3.71	1.97			1.21	1.498E-04
12-Sep-90	0.23	0.85	0.16	75.59	119.24	43.65	185.39	4259.41	-3.71	3.02	2.47	0.29	1.74	2.148E-04
13-Sep-90	0.26	0.85	0.00	75.58	119.22	43.64	185.31	4255.71	-3.71	3.41			3.45	4.265E-04
14-Sep-90	0.27	0.85	0.00	75.57	119.20	43.63	185.22	4252.00	-3.71	3.54			0.29	3.621E-05
15-Sep-90	0.21	0.85	0.00	75.57	119.18	43.61	185.14	4248.30	-3.70	2.75			0.16	1.997E-05
16-Sep-90	0.12	0.85	0.36	75.56	119.17	43.61	185.10	4246.45	-1.85	1.57	5.55	0.65	-0.90	
17-Sep-90	0.20	0.85	0.22	75.56	119.16	43.60	185.06	4244.60	-1.85	2.62	3.39	0.40	6.48	8.034E-04
18-Sep-90	0.25	0.85	0.00	75.55	119.15	43.60	185.02	4242.75	-1.85	3.28			3.02	3.744E-04
19-Sep-90	0.26	0.85	0.00	75.54	119.14	43.60	184.97	4240.90	-1.85	3.41			-1.43	
20-Sep-90	0.23	0.85	0.00	75.54	119.13	43.59	184.93	4239.05	-1.85	3.01			-1.56	
21-Sep-90	0.23	0.85	0.00	75.53	119.12	43.59	184.89	4237.20	-1.85	3.01			-1.16	
22-Sep-90	0.24	0.85	0.00	75.53	119.09	43.57	184.77	4231.92	-5.28	3.14			2.27	2.818E-04
23-Sep-90	0.26	0.85	0.00	75.52	119.06	43.54	184.65	4226.64	-5.28	3.40			2.14	2.657E-04

MAGNOLIA LAKE DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 2176	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)	
24-Sep-90	0.31	0.85	0.00	75.51	119.03	43.52	184.53	4221.36	-5.27	4.05			1.87	2.333E-04	
25-Sep-90	0.23	0.85	0.00	75.51	119.01	43.50	184.41	4216.09	-5.27	3.00			1.22	1.519E-04	
26-Sep-90	0.21	0.85	0.00	75.50	118.98	43.48	184.29	4210.83	-5.27	2.74			2.26	2.824E-04	
27-Sep-90	0.17	0.85	0.00	75.49	118.95	43.45	184.17	4205.56	-5.26	2.22			2.52	3.152E-04	
28-Sep-90	0.22	0.85	0.00	75.49	118.92	43.43	184.05	4200.30	-5.26	2.87			3.04	3.806E-04	
29-Sep-90	0.13	0.85	0.68	75.48	118.91	43.43	184.01	4198.46	-1.84	1.69	10.43	1.23	-1.03		
30-Sep-90	0.06	0.85	0.14	75.48	118.90	43.42	183.97	4196.62	-1.84	0.78	2.15	0.25	11.81	1.478E-03	
01-Oct-90	0.10	0.76	0.00	75.47	118.89	43.42	183.93	4194.78	-1.84	1.16			3.46	4.330E-04	
02-Oct-90	0.21	0.76	0.00	75.46	118.88	43.42	183.89	4192.94	-1.84	2.45			0.67	8.445E-05	
03-Oct-90	0.24	0.76	0.00	75.46	118.87	43.41	183.84	4191.11	-1.84	2.79			-0.61		
04-Oct-90	0.20	0.76	0.00	75.45	118.86	43.41	183.80	4189.27	-1.84	2.33			-0.96		
05-Oct-90	0.16	0.76	0.00	75.45	118.85	43.40	183.76	4187.43	-1.84	1.86			-0.49		
06-Oct-90	0.15	0.76	0.08	75.44	118.84	43.40	183.72	4185.59	-1.84	1.75	1.22	0.15	-0.02		
07-Oct-90	0.18	0.76	0.00	75.43	118.87	43.44	183.85	4191.37	5.78	2.10			-6.15		
08-Oct-90	0.22	0.76	0.00	75.43	118.90	43.48	183.98	4197.15	5.78	2.56			-7.88		
09-Oct-90	0.21	0.76	0.00	75.42	118.93	43.51	184.11	4202.93	5.78	2.45			-8.35		
10-Oct-90	0.24	0.76	0.58	75.41	118.97	43.55	184.24	4208.72	5.79	2.80	8.91	1.05	-8.24		
11-Oct-90	0.18	0.76	1.68	75.41	119.00	43.59	184.38	4214.51	5.79	2.10	25.81	3.05	1.36	1.697E-04	
12-Oct-90	0.05	0.76	0.74	75.40	119.03	43.63	184.51	4220.31	5.80	0.58	11.38	1.34	20.96	2.604E-03	
13-Oct-90	0.13	0.76	0.00	75.40	119.06	43.66	184.64	4226.11	5.80	1.52			6.33	7.857E-04	
14-Oct-90	0.18	0.76	0.00	75.39	119.04	43.65	184.54	4221.80	-4.31	2.10			2.79	3.460E-04	
15-Oct-90	0.19	0.76	0.00	75.38	119.01	43.63	184.44	4217.50	-4.30	2.22			2.20	2.735E-04	
16-Oct-90	0.19	0.76	0.00	75.38	118.99	43.61	184.35	4213.20	-4.30	2.22			2.08	2.591E-04	
17-Oct-90	0.16	0.76	0.00	75.37	118.97	43.60	184.25	4208.90	-4.30	1.87			2.08	2.592E-04	
18-Oct-90	0.18	0.76	0.00	75.36	118.94	43.58	184.15	4204.60	-4.30	2.10			2.43	3.029E-04	
19-Oct-90	0.09	0.76	0.12	75.36	118.92	43.56	184.05	4200.30	-4.30	1.05	1.84	0.22	2.20	2.739E-04	
20-Oct-90	0.16	0.76	0.00	75.35	119.06	43.71	184.64	4226.11	25.81	1.87			-24.80		
21-Oct-90	0.13	0.76	0.00	75.35	119.04	43.69	184.54	4221.89	-4.22	1.52			2.35	2.912E-04	
22-Oct-90	0.28	0.76	0.00	75.34	119.01	43.67	184.45	4217.67	-4.22	3.27			2.70	3.349E-04	
23-Oct-90	0.05	0.76	0.31	75.33	118.99	43.66	184.35	4213.46	-4.21	0.58	4.76	0.56	0.94	1.173E-04	
24-Oct-90	0.15	0.76	0.00	75.33	118.97	43.64	184.26	4209.25	-4.21	1.75			8.95	1.113E-03	
25-Oct-90	0.11	0.76	0.00	75.32	118.95	43.62	184.16	4205.04	-4.21	1.28			2.46	3.062E-04	
26-Oct-90	0.09	0.76	0.00	75.32	118.92	43.61	184.06	4200.83	-4.21	1.05			2.93	3.645E-04	
27-Oct-90	0.11	0.76	0.00	75.31	118.90	43.59	183.97	4196.62	-4.21	1.28			3.16	3.937E-04	
28-Oct-90	0.12	0.76	0.00	75.30	118.88	43.58	183.89	4192.94	-3.68	1.40			2.40	2.991E-04	
29-Oct-90	0.11	0.76	0.00	75.30	118.86	43.56	183.80	4189.27	-3.68	1.28			2.28	2.847E-04	
30-Oct-90	0.12	0.76	0.00	75.29	118.84	43.55	183.72	4185.59	-3.68	1.40			2.39	2.993E-04	
31-Oct-90	0.11	0.76	0.00	75.28	118.82	43.54	183.63	4181.92	-3.67	1.28			2.28	2.849E-04	
01-Nov-90	0.10	0.71	0.00	75.28	118.80	43.52	183.55	4178.25	-3.67	1.09			2.39	2.995E-04	
02-Nov-90	0.15	0.71	0.00	75.27	118.78	43.51	183.47	4174.58	-3.67	1.63			2.58	3.237E-04	
03-Nov-90	0.15	0.71	0.00	75.26	118.76	43.50	183.38	4170.91	-3.67	1.63			2.04	2.558E-04	
04-Nov-90	0.13	0.71	0.00	75.25	118.76	43.51	183.38	4170.91	0.00	1.41			-1.63		
05-Nov-90	0.12	0.71	0.00	75.25	118.76	43.51	183.38	4170.91	0.00	1.30			-1.41		
06-Nov-90	0.15	0.71	0.00	75.24	118.76	43.52	183.38	4170.91	0.00	1.63			-1.30		
07-Nov-90	0.13	0.71	0.00	75.24	118.76	43.51	183.38	4170.91	0.00	1.41			-1.63		
08-Nov-90	0.12	0.71	0.00	75.24	118.76	43.52	183.38	4170.91	0.00	1.30			-1.41		
09-Nov-90	0.12	0.71	0.00	75.28	118.76	43.48	183.38	4170.91	0.00	1.30			-1.30		
10-Nov-90	0.12	0.71	0.77	75.28	118.76	43.48	183.38	4170.91	0.00	1.30	11.77	1.40	-1.30		
11-Nov-90	0.14	0.71	0.00	75.11	118.73	43.62	183.27	4166.02	-4.89	1.52			16.75	2.095E-03	
12-Nov-90	0.13	0.71	0.00	75.08	118.71	43.62	183.16	4161.13	-4.89	1.41			3.37	4.215E-04	
13-Nov-90	0.11	0.71	0.00	75.06	118.68	43.62	183.05	4156.25	-4.88	1.19			3.47	4.351E-04	
14-Nov-90	0.13	0.71	0.00	74.98	118.65	43.68	182.94	4151.37	-4.88	1.41			3.69	4.616E-04	
15-Nov-90	0.15	0.71	0.00	75.01	118.63	43.61	182.83	4146.49	-4.88	1.62			3.47	4.351E-04	
16-Nov-90	0.12	0.71	0.00	75.07	118.60	43.53	182.71	4141.62	-4.87	1.30			3.25	4.087E-04	
17-Nov-90	0.10	0.71	0.00	75.13	118.59	43.46	182.66	4139.34	-2.28	1.08			0.99	1.242E-04	
18-Nov-90	0.16	0.71	0.00	75.07	118.58	43.50	182.61	4137.05	-2.28	1.73			1.20	1.513E-04	
19-Nov-90	0.13	0.71	0.00	75.05	118.56	43.51	182.56	4134.77	-2.28	1.40			0.55	6.969E-05	
20-Nov-90	0.09	0.71	0.00	75.01	118.55	43.54	182.50	4132.49	-2.28	0.97			0.88	1.104E-04	
21-Nov-90	0.09	0.71	0.00	75.00	118.54	43.53	182.45	4130.21	-2.28	0.97			1.31	1.648E-04	
22-Nov-90	0.10	0.71	0.00	75.02	118.53	43.50	182.40	4127.93	-2.28	1.08			1.31	1.649E-04	
23-Nov-90	0.10	0.71	0.00	75.07	118.51	43.44	182.35	4125.65	-2.28	1.08			1.20	1.516E-04	
24-Nov-90	0.05	0.71	0.14	75.02	118.50	43.48	182.30	4123.37	-2.28	0.54	2.13	0.25	1.20	1.514E-04	
25-Nov-90	0.10	0.71	0.00	74.97	118.48	43.52	182.22	4120.25	-3.12	1.08			4.97	6.262E-04	
26-Nov-90	0.10	0.71	0.00	74.95	118.47	43.52	182.15	4117.12	-3.12	1.08			2.05	2.580E-04	
27-Nov-90	0.08	0.71	0.00	74.95	118.45	43.50	182.08	4114.00	-3.12	0.86			2.04	2.581E-04	
28-Nov-90	0.06	0.71	0.16	74.96	118.43	43.47	182.01	4110.88	-3.12	0.65	2.43	0.29	2.26	2.855E-04	
29-Nov-90	0.07	0.71	0.00	74.94	118.41	43.47	181.94	4107.76	-3.12	0.75			5.19	6.562E-04	
30-Nov-90	0.19	0.71	0.00	74.85	118.40	43.55	181.86	4104.64	-3.12	2.04			2.36	2.986E-04	
01-Dec-90	0.13	0.83	0.00	74.81	118.38	43.57	181.79	4101.52	-3.12	1.63			1.07	1.354E-04	
02-Dec-90	0.08	0.83	0.00	74.83	118.37	43.54	181.76	4100.01	-1.51	1.01			-0.12		

MAGNOLIA LAKE DAILY WATER BUDGET:

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 2176					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)		
03-Dec-90	0.11	0.83	0.00	74.92	118.36	43.44	181.72	4098.50	-1.51	1.38			0.51	6.445E-05		
04-Dec-90	0.12	0.83	0.28	74.93	118.36	43.42	181.69	4096.98	-1.51	1.51	4.24	0.51	0.13	1.668E-05		
05-Dec-90	0.09	0.83	0.00	74.87	118.35	43.48	181.65	4095.47	-1.51	1.13			4.75	6.018E-04		
06-Dec-90	0.09	0.83	0.00	74.95	118.34	43.39	181.62	4093.95	-1.51	1.13			0.38	4.858E-05		
07-Dec-90	0.04	0.83	0.00	75.02	118.33	43.31	181.58	4092.44	-1.51	0.50			0.38	4.867E-05		
08-Dec-90	0.05	0.83	1.04	74.97	118.40	43.43	181.88	4105.16	12.72	0.63	15.76	1.89	-13.22			
09-Dec-90	0.04	0.83	0.00	74.84	118.39	43.54	181.82	4102.56	-2.60	0.50			19.62	2.478E-03		
10-Dec-90	0.12	0.83	0.00	74.83	118.37	43.54	181.76	4099.97	-2.60	1.51			2.09	2.646E-04		
11-Dec-90	0.12	0.83	0.00	74.87	118.36	43.49	181.70	4097.37	-2.60	1.51			1.09	1.376E-04		
12-Dec-90	0.08	0.83	0.00	74.84	118.34	43.50	181.64	4094.77	-2.60	1.01			1.09	1.376E-04		
13-Dec-90	0.04	0.83	0.00	74.85	118.33	43.48	181.58	4092.18	-2.59	0.50			1.59	2.013E-04		
14-Dec-90	0.08	0.83	0.00	74.81	118.31	43.50	181.52	4089.59	-2.59	1.00			2.09	2.648E-04		
15-Dec-90	0.05	0.83	0.00	74.84	118.30	43.46	181.46	4086.99	-2.59	0.63			1.59	2.014E-04		
16-Dec-90	0.04	0.83	0.00	74.90	118.29	43.38	181.41	4084.92	-2.07	0.50			1.45	1.837E-04		
17-Dec-90	0.08	0.83	0.00	74.93	118.28	43.35	181.36	4082.85	-2.07	1.00			1.57	1.998E-04		
18-Dec-90	0.08	0.83	0.00	74.98	118.27	43.29	181.31	4080.78	-2.07	1.00			1.07	1.362E-04		
19-Dec-90	0.08	0.83	0.00	74.90	118.25	43.36	181.27	4078.70	-2.07	1.00			1.07	1.360E-04		
20-Dec-90	0.06	0.83	0.00	74.79	118.24	43.46	181.22	4076.63	-2.07	0.75			1.07	1.357E-04		
21-Dec-90	0.09	0.83	0.00	74.76	118.23	43.47	181.17	4074.56	-2.07	1.13			1.32	1.674E-04		
22-Dec-90	0.09	0.83	0.00	74.81	118.22	43.41	181.12	4072.49	-2.07	1.13			0.94	1.199E-04		
23-Dec-90	0.10	0.83	0.00	74.85	118.21	43.36	181.06	4069.90	-2.59	1.25			1.46	1.859E-04		
24-Dec-90	0.11	0.83	0.07	74.87	118.19	43.32	181.00	4067.32	-2.59	1.38	1.06	0.13	1.33	1.701E-04		
25-Dec-90	0.16	0.83	0.00	74.81	118.18	43.37	180.94	4064.73	-2.59	2.00			2.39	3.047E-04		
26-Dec-90	0.06	0.83	0.00	74.78	118.16	43.38	180.88	4062.15	-2.58	0.75			0.58	7.417E-05		
27-Dec-90	0.10	0.83	0.00	74.76	118.15	43.39	180.82	4059.56	-2.58	1.25			1.83	2.336E-04		
28-Dec-90	0.08	0.83	0.00	74.78	118.13	43.36	180.76	4056.98	-2.58	1.00			1.33	1.700E-04		
29-Dec-90	0.02	0.83	0.00	74.81	118.12	43.31	180.70	4054.40	-2.58	0.25			1.58	2.021E-04		
30-Dec-90	0.07	0.83	0.00	74.85	118.11	43.26	180.67	4052.85	-1.55	0.87			1.30	1.662E-04		
31-Dec-90	0.07	0.83	0.00	74.84	118.10	43.26	180.63	4051.30	-1.55	0.87			0.67	8.621E-05		
01-Jan-91	0.04	0.77	0.00	74.85	118.09	43.24	180.60	4049.75	-1.55	0.46			0.87	8.625E-05		
02-Jan-91	0.01	0.77	0.00	74.85	118.09	43.24	180.56	4048.21	-1.55	0.12			1.08	1.389E-04		
03-Jan-91	0.06	0.77	0.00	74.82	118.08	43.25	180.53	4046.66	-1.55	0.70			1.43	1.833E-04		
04-Jan-91	0.06	0.77	0.00	74.79	118.07	43.28	180.49	4045.11	-1.55	0.69			0.85	1.091E-04		
05-Jan-91	0.05	0.77	0.00	74.75	118.06	43.31	180.45	4043.56	-1.55	0.58			0.85	1.090E-04		
06-Jan-91	0.04	0.77	0.00	74.75	118.07	43.32	180.49	4045.11	1.55	0.46			-2.13			
07-Jan-91	0.05	0.77	0.00	74.79	118.08	43.29	180.53	4046.66	1.55	0.58			-2.01			
08-Jan-91	0.06	0.77	0.00	74.76	118.09	43.33	180.56	4048.21	1.55	0.70			-2.13			
09-Jan-91	0.06	0.77	0.00	74.66	118.09	43.43	180.60	4049.75	1.55	0.70			-2.24			
10-Jan-91	0.12	0.77	0.00	74.70	118.10	43.40	180.63	4051.30	1.55	1.39			-2.24			
11-Jan-91	0.07	0.77	0.13	74.82	118.11	43.29	180.67	4052.85	1.55	0.81	1.96	0.24	-2.94			
12-Jan-91	0.16	0.77	2.07	74.94	118.12	43.18	180.70	4054.40	1.55	1.86	31.17	3.75	-0.17			
13-Jan-91	0.21	0.77	0.00	74.84	118.12	43.28	180.70	4054.33	-0.07	2.43			33.14	4.237E-03		
14-Jan-91	0.10	0.77	0.00	74.79	118.12	43.33	180.70	4054.27	-0.07	1.16			-2.37			
15-Jan-91	0.09	0.77	0.00	74.83	118.12	43.29	180.70	4054.20	-0.07	1.04			-1.09			
16-Jan-91	0.02	0.77	0.17	74.83	118.12	43.29	180.70	4054.13	-0.07	0.23	2.56	0.31	-0.98			
17-Jan-91	0.10	0.77	0.10	74.71	118.12	43.41	180.70	4054.07	-0.07	1.16	1.51	0.18	2.70	3.446E-04		
18-Jan-91	0.09	0.77	0.00	74.65	118.12	43.46	180.70	4054.00	-0.07	1.04			0.59	7.571E-05		
19-Jan-91	0.08	0.77	0.11	74.74	118.12	43.37	180.69	4053.93	-0.07	0.93	1.66	0.20	-0.98			
20-Jan-91	0.15	0.77	1.26	74.80	118.12	43.32	180.69	4053.86	-0.07	1.74	18.97	2.28	1.00	1.271E-04		
21-Jan-91	0.13	0.77	0.00	74.72	118.12	43.40	180.69	4053.80	-0.07	1.51			19.59	2.497E-03		
22-Jan-91	0.07	0.77	0.00	74.66	118.12	43.45	180.69	4053.73	-0.07	0.81			-1.44			
23-Jan-91	0.15	0.77	0.00	74.61	118.12	43.51	180.69	4053.66	-0.07	1.74			-0.74			
24-Jan-91	0.06	0.77	0.00	74.71	118.12	43.41	180.69	4053.60	-0.07	0.70			-1.67			
25-Jan-91	0.10	0.77	1.12	74.69	118.12	43.43	180.68	4053.53	-0.07	1.16	16.86	2.03	-0.63			
26-Jan-91	0.05	0.77	0.06	74.65	118.11	43.46	180.68	4053.46	-0.07	0.58	0.90	0.11	17.80	2.267E-03		
27-Jan-91	0.05	0.77	0.00	74.70	118.11	43.42	180.68	4053.40	-0.07	0.58			0.50	6.367E-05		
28-Jan-91	0.06	0.77	0.80	74.78	118.11	43.34	180.68	4053.33	-0.07	0.70	12.05	1.45	-0.51			
29-Jan-91	0.02	0.77	0.05	74.77	118.11	43.34	180.68	4053.26	-0.07	0.23	0.75	0.09	12.87	1.843E-03		
30-Jan-91	0.02	0.77	0.40	74.80	118.11	43.32	180.68	4053.20	-0.07	0.23	6.02	0.73	0.68	8.670E-05		
31-Jan-91	0.15	0.77	0.52	74.75	118.11	43.36	180.68	4053.13	-0.07	1.74	7.83	0.94	6.58	8.403E-04		
01-Feb-91	0.08	0.69	0.05	74.65	118.11	43.46	180.67	4053.06	-0.07	0.83	0.75	0.09	7.10	9.042E-04		
02-Feb-91	0.11	0.69	0.15	74.66	118.11	43.45	180.67	4052.99	-0.07	1.14	2.26	0.27	0.08	1.010E-05		
03-Feb-91	0.02	0.69	0.01	74.72	118.11	43.39	180.67	4052.93	-0.07	0.21	0.15	0.02	1.45	1.856E-04		
04-Feb-91	0.14	0.69	0.00	74.73	118.11	43.38	180.67	4052.86	-0.07	1.45			0.03	3.552E-06		
05-Feb-91	0.15	0.69	0.00	74.80	118.11	43.31	180.67	4052.79	-0.07	1.56			-1.39			
06-Feb-91	0.12	0.69	0.00	74.81	118.11	43.30	180.67	4052.73	-0.07	1.25			-1.49			
07-Feb-91	0.02	0.69	0.12	74.90	118.11	43.22	180.66	4052.66	-0.07	0.21	1.81	0.22	-1.18			
08-Feb-91	0.05	0.69	0.01	74.92	118.11	43.19	180.66	4052.59	-0.07	0.52	0.15	0.02	1.88	2.414E-04		
09-Feb-91	0.05	0.69	0.00	74.90	118.11	43.20	180.66	4052.52	-0.31	0.52			-0.04			
10-Feb-91	0.12	0.69	0.00	74.95	118.11	43.16	180.65	4051.97	-0.31	1.25			-0.21			

MAGNOLIA LAKE DAILY WATER BUDGET:

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 2176					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)		
11-Feb-91	0.16	0.69	0.00	74.89	118.10	43.22	180.64	4051.66	-0.31	1.66			-0.94			
12-Feb-91	0.13	0.69	0.00	74.79	118.10	43.32	180.63	4051.35	-0.31	1.35			-1.35			
13-Feb-91	0.12	0.69	0.00	74.86	118.10	43.24	180.63	4051.04	-0.31	1.25			-1.04			
14-Feb-91	0.15	0.69	0.31	75.00	118.10	43.10	180.62	4050.72	-0.31	1.56	4.67	0.56	-0.93			
15-Feb-91	0.19	0.69	0.01	74.87	118.10	43.23	180.61	4050.41	-0.31	1.97	0.15	0.02	3.98	5.100E-04		
16-Feb-91	0.19	0.69	0.00	74.55	118.10	43.54	180.61	4050.10	-0.31	1.97			-1.49			
17-Feb-91	0.10	0.69	0.00	74.58	118.09	43.51	180.60	4049.79	-0.31	1.04			-1.66			
18-Feb-91	0.08	0.69	0.00	74.65	118.09	43.44	180.59	4049.48	-0.31	0.83			-0.73			
19-Feb-91	0.16	0.69	0.00	74.65	118.09	43.44	180.58	4049.17	-0.31	1.66			-0.52			
20-Feb-91	0.17	0.69	0.00	74.64	118.09	43.45	180.58	4048.86	-0.31	1.77			-1.35			
21-Feb-91	0.19	0.69	0.00	74.64	118.09	43.44	180.57	4048.54	-0.31	1.97			-1.45			
22-Feb-91	0.12	0.69	0.00	74.72	118.09	43.37	180.56	4048.23	-0.31	1.25			-1.66			
23-Feb-91	0.11	0.69	0.00	74.76	118.08	43.32	180.55	4047.92	-0.31	1.14			-0.93			
24-Feb-91	0.18	0.69	0.00	74.78	118.08	43.30	180.55	4047.61	-0.31	1.87			-0.83			
25-Feb-91	0.10	0.69	0.00	74.79	118.08	43.29	180.54	4047.30	-0.31	1.04			-1.56			
26-Feb-91	0.07	0.69	0.00	74.75	118.08	43.33	180.53	4046.99	-0.31	0.73			-0.73			
27-Feb-91	0.20	0.69	0.00	74.63	118.08	43.45	180.53	4046.68	-0.31	2.08			-0.42			
28-Feb-91	0.13	0.69	0.00	74.62	118.08	43.46	180.52	4046.37	-0.31	1.35			-1.76			
01-Mar-91	0.04	0.73	0.00	74.72	118.07	43.36	180.51	4046.05	-0.31	0.44			-1.04			
02-Mar-91	0.11	0.73	0.00	74.84	118.07	43.23	180.50	4045.74	-0.31	1.21			-0.13			
03-Mar-91	0.01	0.73	5.15	75.14	118.07	42.93	180.50	4045.43	-0.31	0.11	77.46	9.34	-0.90			
04-Mar-91	0.22	0.73	0.00	75.04	118.07	43.03	180.49	4045.12	-0.31	2.42			87.00	1.120E-02		
05-Mar-91	0.06	0.73	0.00	74.98	118.07	43.09	180.48	4044.81	-0.31	0.66			-2.10			
06-Mar-91	0.15	0.73	0.00	75.01	118.07	43.05	180.48	4044.50	-0.31	1.65			-0.35			
07-Mar-91	0.18	0.73	0.00	75.06	118.06	43.01	180.47	4044.19	-0.31	1.98			-1.34			
08-Mar-91	0.16	0.73	0.00	75.10	118.06	42.96	180.46	4043.88	-0.31	1.76			-1.66			
09-Mar-91	0.12	0.73	0.27	75.16	118.06	42.90	180.45	4043.56	-0.31	1.32	4.06	0.49	-1.45			
10-Mar-91	0.10	0.73	0.00	75.15	118.06	42.92	180.47	4044.08	0.52	1.10			2.72	3.508E-04		
11-Mar-91	0.21	0.73	0.00	75.13	118.07	42.94	180.48	4044.60	0.52	2.31			-1.61			
12-Mar-91	0.14	0.73	0.00	75.18	118.07	42.89	180.49	4045.11	0.52	1.54			-2.82			
13-Mar-91	0.15	0.73	0.00	75.28	118.07	42.79	180.50	4045.63	0.52	1.65			-2.05			
14-Mar-91	0.10	0.73	0.04	75.27	118.07	42.80	180.51	4046.14	0.52	1.10	0.60	0.07	-2.16			
15-Mar-91	0.26	0.73	0.09	75.15	118.08	42.93	180.53	4046.66	0.52	2.86	1.35	0.16	-0.94			
16-Mar-91	0.12	0.73	0.35	75.12	118.08	42.96	180.54	4047.17	0.52	1.32	5.27	0.63	-1.85			
17-Mar-91	0.14	0.73	0.63	75.34	118.08	42.75	180.54	4047.43	0.26	1.54	9.48	1.14	4.32	5.603E-04		
18-Mar-91	0.01	0.73	2.80	75.57	118.08	42.51	180.55	4047.69	0.26	0.11	42.13	5.08	8.83	1.150E-03		
19-Mar-91	0.12	0.73	0.00	75.51	118.08	42.58	180.56	4047.95	0.26	1.32			46.84	6.092E-03		
20-Mar-91	0.18	0.73	0.00	75.47	118.09	42.62	180.56	4048.21	0.26	1.98			-1.58			
21-Mar-91	0.17	0.73	0.00	75.52	118.09	42.56	180.57	4048.46	0.26	1.87			-2.24			
22-Mar-91	0.20	0.73	0.00	75.56	118.09	42.53	180.57	4048.72	0.26	2.20			-2.13			
23-Mar-91	0.18	0.73	0.00	75.54	118.09	42.55	180.58	4048.98	0.26	1.98			-2.45			
24-Mar-91	0.17	0.73	0.00	75.61	118.09	42.48	180.59	4049.24	0.26	1.87			-2.24			
25-Mar-91	0.16	0.73	0.00	75.66	118.09	42.43	180.59	4049.50	0.26	1.76			-2.13			
26-Mar-91	0.13	0.73	0.00	75.69	118.09	42.41	180.60	4049.75	0.26	1.43			-2.02			
27-Mar-91	0.19	0.73	0.00	75.72	118.10	42.37	180.60	4050.01	0.26	2.09			-1.69			
28-Mar-91	0.23	0.73	0.00	75.81	118.10	42.29	180.61	4050.27	0.26	2.53			-2.35			
29-Mar-91	0.18	0.73	0.00	75.91	118.10	42.19	180.62	4050.53	0.26	1.98			-2.79			
30-Mar-91	0.28	0.73	0.86	75.97	118.10	42.13	180.62	4050.79	0.26	3.08	12.94	1.56	-2.24			
31-Mar-91	0.09	0.73	0.00	75.95	118.09	42.14	180.59	4049.24	-1.55	0.99			12.98	1.705E-03		
01-Apr-91	0.14	0.84	0.00	75.88	118.08	42.20	180.55	4047.69	-1.55	1.77			0.56	7.337E-05		
02-Apr-91	0.20	0.84	0.00	75.86	118.07	42.21	180.51	4046.14	-1.55	2.53			-0.22			
03-Apr-91	0.23	0.84	0.00	75.83	118.07	42.24	180.48	4044.60	-1.55	2.91			-0.98			
04-Apr-91	0.20	0.84	0.00	75.84	118.06	42.22	180.44	4043.05	-1.55	2.53			-1.36			
05-Apr-91	0.18	0.84	0.01	75.92	118.05	42.13	180.41	4041.50	-1.55	2.27	0.15	0.02	-0.98			
06-Apr-91	0.12	0.84	0.00	76.00	118.04	42.04	180.37	4039.96	-1.55	1.52			-0.56			
07-Apr-91	0.18	0.84	0.00	76.10	118.05	41.96	180.41	4041.76	1.80	2.27			-3.32			
08-Apr-91	0.18	0.84	0.01	76.10	118.06	41.97	180.45	4043.56	1.80	2.27	0.15	0.02	-4.08			
09-Apr-91	0.19	0.84	0.47	76.18	118.07	41.90	180.50	4045.37	1.80	2.40	7.07	0.85	-3.91			
10-Apr-91	0.13	0.84	0.53	76.25	118.08	41.84	180.54	4047.17	1.81	1.64	7.97	0.96	3.72	4.920E-04		
11-Apr-91	0.17	0.84	0.10	76.22	118.09	41.87	180.58	4048.98	1.81	2.15	1.50	0.18	5.49	7.256E-04		
12-Apr-91	0.21	0.84	0.00	76.16	118.10	41.94	180.62	4050.79	1.81	2.66			-2.27			
13-Apr-91	0.23	0.84	0.00	76.17	118.12	41.96	180.72	4054.85	4.07	2.91			-6.72			
14-Apr-91	0.20	0.84	0.00	76.24	118.15	41.91	180.81	4058.92	4.07	2.53			-6.98			
15-Apr-91	0.25	0.84	0.01	76.23	118.17	41.94	180.90	4062.99	4.07	3.17	0.15	0.02	-6.60			
16-Apr-91	0.17	0.84	0.00	76.20	118.19	42.00	181.00	4067.06	4.07	2.15			-7.07			
17-Apr-91	0.20	0.84	0.00	76.24	118.21	41.98	181.09	4071.13	4.07	2.54			-6.23			
18-Apr-91	0.10	0.84	0.64	76.37	118.24	41.87	181.19	4075.21	4.08	1.27	9.66	1.16	-6.61			
19-Apr-91	0.15	0.84	0.00	76.38	118.26	41.88	181.28	4079.29	4.08	1.90			5.48	7.216E-04		
20-Apr-91	0.11	0.84	1.30	76.40	118.28	41.89	181.37	4083.37	4.08	1.40	19.65	2.36	-5.98			
21-Apr-91	0.05	0.84	1.48	76.42	118.30	41.89	181.47	4087.51	4.15	0.64	22.38	2.68	16.46	2.166E-03		

MAGNOLIA LAKE DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 2176

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
22-Apr-91	0.23	0.84	0.00	76.36	118.33	41.97	181.57	4091.66	4.15	2.92			20.28	2.662E-03
23-Apr-91	0.19	0.84	0.00	76.39	118.35	41.96	181.66	4095.81	4.15	2.42			-7.07	
24-Apr-91	0.02	0.84	0.26	76.36	118.37	42.02	181.76	4099.97	4.15	0.25	3.94	0.47	-6.57	
25-Apr-91	0.20	0.84	0.00	76.30	118.39	42.10	181.85	4104.12	4.16	2.55			-0.00	
26-Apr-91	0.10	0.84	1.11	76.36	118.42	42.06	181.95	4108.28	4.16	1.27	16.83	2.01	-6.70	
27-Apr-91	0.07	0.84	0.03	76.47	118.44	41.98	182.04	4112.44	4.16	0.89	0.46	0.05	13.41	1.755E-03
28-Apr-91	0.22	0.84	0.00	76.54	118.44	41.90	182.06	4112.96	0.52	2.80			-0.90	
29-Apr-91	0.25	0.84	0.00	76.55	118.45	41.90	182.07	4113.48	0.52	3.19			-3.32	
30-Apr-91	0.24	0.84	0.00	76.48	118.45	41.97	182.08	4114.00	0.52	3.06			-3.71	
01-May-91	0.24	0.82	0.00	76.48	118.45	41.98	182.09	4114.52	0.52	2.99			-3.58	
02-May-91	0.24	0.82	0.36	76.53	118.45	41.93	182.10	4115.04	0.52	2.99	5.46	0.65	-3.51	
03-May-91	0.22	0.82	0.00	76.55	118.46	41.91	182.12	4115.56	0.52	2.74			2.61	3.419E-04
04-May-91	0.22	0.82	0.00	76.53	118.46	41.94	182.13	4116.08	0.52	2.74			-3.26	
05-May-91	0.18	0.82	0.00	76.52	118.47	41.95	182.16	4117.50	1.42	2.24			-4.16	
06-May-91	0.24	0.82	0.00	76.51	118.48	41.97	182.19	4118.92	1.42	2.99			-3.66	
07-May-91	0.14	0.82	0.11	76.49	118.48	41.99	182.23	4120.35	1.42	1.74	1.87	0.20	-4.41	
08-May-91	0.19	0.82	0.08	76.49	118.49	42.00	182.26	4121.77	1.42	2.37	1.22	0.15	-1.30	
09-May-91	0.28	0.82	0.00	76.47	118.50	42.03	182.29	4123.19	1.42	3.49			-2.43	
10-May-91	0.23	0.82	0.00	76.42	118.51	42.09	182.32	4124.61	1.42	2.87			-4.91	
11-May-91	0.23	0.82	0.02	76.47	118.51	42.05	182.36	4126.04	1.42	2.87	0.30	0.04	-4.29	
12-May-91	0.18	0.82	0.40	76.58	118.52	41.95	182.39	4127.46	1.42	2.24	6.08	0.73	-3.95	
13-May-91	0.20	0.82	0.00	76.61	118.53	41.92	182.42	4128.88	1.42	2.49			3.14	4.103E-04
14-May-91	0.22	0.82	0.30	76.62	118.54	41.92	182.45	4130.31	1.42	2.74	4.56	0.54	-3.92	
15-May-91	0.27	0.82	0.00	76.54	118.55	42.01	182.49	4131.73	1.42	3.37			0.94	1.224E-04
16-May-91	0.28	0.82	0.00	76.50	118.55	42.06	182.52	4133.16	1.42	3.49			-4.79	
17-May-91	0.26	0.82	0.50	76.54	118.56	42.02	182.55	4134.58	1.42	3.24	7.81	0.91	-4.92	
18-May-91	0.21	0.82	0.00	76.56	118.57	42.01	182.58	4136.01	1.42	2.62			3.84	5.012E-04
19-May-91	0.29	0.82	0.00	76.57	118.58	42.01	182.62	4137.43	1.43	3.62			-4.05	
20-May-91	0.21	0.82	0.75	76.58	118.58	42.00	182.65	4138.86	1.43	2.62	11.42	1.36	-5.04	
21-May-91	0.21	0.82	0.00	76.54	118.59	42.05	182.68	4140.28	1.43	2.62			8.73	1.136E-03
22-May-91	0.19	0.82	0.00	76.50	118.60	42.11	182.72	4141.71	1.43	2.37			-4.05	
23-May-91	0.19	0.82	0.01	76.47	118.61	42.14	182.75	4143.14	1.43	2.37	0.15	0.02	-3.80	
24-May-91	0.05	0.82	0.20	76.52	118.62	42.10	182.78	4144.56	1.43	0.62	3.05	0.36	-3.63	
25-May-91	0.09	0.82	0.08	76.57	118.62	42.06	182.81	4145.99	1.43	1.12	1.22	0.15	1.36	1.766E-04
26-May-91	0.28	0.82	0.00	76.59	118.63	42.04	182.85	4147.42	1.43	3.50			-1.19	
27-May-91	0.09	0.82	0.25	76.59	118.64	42.05	182.88	4148.84	1.43	1.12	3.81	0.45	-4.93	
28-May-91	0.24	0.82	0.70	76.53	118.65	42.12	182.91	4150.27	1.43	3.00	10.87	1.27	1.71	2.221E-04
29-May-91	0.21	0.82	0.00	76.50	118.66	42.16	182.94	4151.70	1.43	2.63			7.51	9.740E-04
30-May-91	0.26	0.82	0.31	76.51	118.66	42.15	182.98	4153.13	1.43	3.25	4.73	0.56	-4.05	
31-May-91	0.15	0.82	0.03	76.51	118.67	42.17	183.01	4154.55	1.43	1.88	0.46	0.05	0.61	7.904E-05
01-Jun-91	0.09	0.85	1.67	76.57	118.68	42.11	183.04	4155.98	1.43	1.17	25.47	3.03	-2.79	
02-Jun-91	0.24	0.85	0.00	76.64	118.69	42.05	183.07	4157.41	1.43	3.11			25.91	3.365E-03
03-Jun-91	0.28	0.85	0.00	76.64	118.69	42.05	183.11	4158.84	1.43	3.63			-4.54	
04-Jun-91	0.20	0.85	0.00	76.67	118.70	42.04	183.14	4160.27	1.43	2.59			-5.06	
05-Jun-91	0.29	0.85	1.03	76.71	118.71	42.00	183.17	4161.70	1.43	3.76	15.72	1.87	-4.02	
06-Jun-91	0.17	0.85	0.42	76.73	118.72	41.98	183.21	4163.13	1.43	2.21	6.41	0.76	12.40	1.612E-03
07-Jun-91	0.12	0.85	0.06	76.76	118.73	41.96	183.24	4164.56	1.43	1.56	0.92	0.11	3.54	4.601E-04
08-Jun-91	0.04	0.85	0.09	76.83	118.73	41.91	183.27	4165.99	1.43	0.52	1.37	0.16	-1.96	
09-Jun-91	0.22	0.85	0.00	76.91	118.74	41.83	183.30	4167.42	1.43	2.86			-0.41	
10-Jun-91	0.30	0.85	0.00	76.99	118.75	41.76	183.34	4168.85	1.43	3.90			-4.29	
11-Jun-91	0.25	0.85	0.00	77.03	118.76	41.72	183.37	4170.28	1.43	3.25			-5.33	
12-Jun-91	0.22	0.85	0.00	77.09	118.76	41.68	183.40	4171.71	1.43	2.86			-4.68	
13-Jun-91	0.29	0.85	0.00	77.14	118.77	41.64	183.43	4173.14	1.43	3.77			-4.29	
14-Jun-91	0.22	0.85	0.00	77.15	118.78	41.63	183.47	4174.58	1.43	2.86			-5.20	
15-Jun-91	0.22	0.85	0.00	77.25	118.82	41.57	183.65	4182.80	8.23	2.86			-11.09	
16-Jun-91	0.25	0.85	0.00	77.37	118.87	41.50	183.84	4191.04	8.23	3.26			-11.10	
17-Jun-91	0.23	0.85	0.00	77.42	118.91	41.49	184.03	4199.28	8.24	3.00			-11.50	
18-Jun-91	0.15	0.85	1.34	77.45	118.96	41.51	184.22	4207.53	8.25	1.96	20.57	2.43	-11.25	
19-Jun-91	0.12	0.85	0.07	77.43	119.00	41.57	184.40	4215.79	8.26	1.57	1.08	0.13	12.78	1.667E-03
20-Jun-91	0.12	0.85	0.20	77.43	119.05	41.62	184.59	4224.06	8.27	1.57	3.08	0.36	-8.63	
21-Jun-91	0.26	0.85	0.00	77.47	119.09	41.62	184.78	4232.34	8.28	3.40			-6.41	
22-Jun-91	0.27	0.85	0.00	77.49	119.14	41.65	184.97	4240.62	8.29	3.54			-11.69	
23-Jun-91	0.27	0.85	0.00	77.51	119.18	41.68	185.15	4248.91	8.29	3.54			-11.83	
24-Jun-91	0.26	0.85	0.00	77.46	119.23	41.77	185.34	4257.22	8.30	3.41			-11.84	
25-Jun-91	0.23	0.85	0.32	77.49	119.27	41.79	185.53	4265.53	8.31	3.02	4.95	0.58	-11.72	
26-Jun-91	0.24	0.85	0.06	77.52	119.32	41.80	185.72	4273.85	8.32	3.16	0.93	0.11	-5.81	
27-Jun-91	0.18	0.85	1.42	77.50	119.36	41.87	185.90	4282.17	8.33	2.37	22.00	2.57	-10.45	
28-Jun-91	0.22	0.85	0.02	77.46	119.41	41.95	186.09	4290.51	8.34	2.90	0.31	0.04	13.87	
29-Jun-91	0.28	0.85	0.00	77.50	119.45	41.95	186.28	4298.85	8.34	3.69			-10.90	
30-Jun-91	0.13	0.85	0.13	77.57	119.50	41.93	186.47	4307.20	8.35	1.72	2.02	0.24	-12.05	

MAGNOLIA LAKE DAILY WATER BUDGET:

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 2176		Surface Runoff Volume (ac-ft)	Leakage Volume (acre-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			
01-Jul-91	0.20	0.91	0.00	77.60	119.54	41.94	186.65	4315.57	8.36	2.83			-7.82	
02-Jul-91	0.19	0.91	0.14	77.59	119.59	42.00	186.84	4323.93	8.37	2.69	2.18	0.25	-11.20	
03-Jul-91	0.23	0.91	0.00	77.56	119.63	42.07	187.03	4332.31	8.38	3.26			-8.64	
04-Jul-91	0.23	0.91	0.08	77.57	119.68	42.11	187.22	4340.70	8.39	3.27	1.25	0.15	-11.65	
05-Jul-91	0.30	0.91	0.17	77.56	119.72	42.17	187.40	4349.09	8.39	4.26	2.65	0.31	-10.27	
06-Jul-91	0.16	0.91	0.04	77.55	119.77	42.22	187.59	4357.49	8.40	2.28	0.63	0.07	-9.70	
07-Jul-91	0.16	0.91	0.00	77.57	119.81	42.25	187.78	4365.91	8.41	2.28			-9.99	
08-Jul-91	0.17	0.91	0.00	77.58	119.86	42.28	187.97	4374.33	8.42	2.42			-10.70	
09-Jul-91	0.21	0.91	0.26	77.63	119.90	42.27	188.16	4382.75	8.43	3.00	4.08	0.47	-10.85	
10-Jul-91	0.13	0.91	0.47	77.63	119.95	42.32	188.34	4391.19	8.44	1.86	7.38	0.85	-6.88	
11-Jul-91	0.17	0.91	1.09	77.63	119.99	42.36	188.53	4399.63	8.44	2.43	17.12	1.98	-2.07	
12-Jul-91	0.10	0.91	0.10	77.63	120.03	42.41	188.72	4408.09	8.45	1.43	1.57	0.18	8.22	
13-Jul-91	0.07	0.91	0.00	77.64	120.08	42.44	188.91	4416.55	8.46	1.00			-8.14	
14-Jul-91	0.12	0.91	0.00	77.64	120.12	42.49	189.09	4425.02	8.47	1.72			-9.47	
15-Jul-91	0.13	0.91	0.02	77.60	120.17	42.57	189.28	4433.50	8.48	1.87	0.32	0.04	-10.20	
16-Jul-91	0.23	0.91	0.02	77.61	120.21	42.60	189.47	4441.98	8.49	3.30	0.32	0.04	-10.00	
17-Jul-91	0.22	0.91	0.00	77.61	120.26	42.65	189.66	4450.48	8.50	3.16			-11.45	
18-Jul-91	0.22	0.91	0.00	77.63	120.30	42.68	189.84	4458.98	8.50	3.17			-11.67	
19-Jul-91	0.13	0.91	0.01	77.63	120.35	42.72	190.03	4467.49	8.51	1.87	0.16	0.02	-11.68	
20-Jul-91	0.31	0.91	0.94	77.63	120.39	42.76	190.22	4476.02	8.52	4.47	14.90	1.70	-10.22	
21-Jul-91	0.18	0.91	0.00	77.64	120.44	42.80	190.41	4484.54	8.53	2.60			3.60	
22-Jul-91	0.23	0.91	0.00	77.68	120.48	42.80	190.59	4493.08	8.54	3.32			-11.14	
23-Jul-91	0.25	0.91	0.00	77.78	120.53	42.75	190.78	4501.63	8.55	3.62			-11.87	
24-Jul-91	0.18	0.91	0.00	77.88	120.57	42.69	190.97	4510.18	8.55	2.61			-12.17	
25-Jul-91	0.17	0.91	0.53	77.88	120.62	42.74	191.16	4518.74	8.56	2.46	8.44	0.96	-11.17	
26-Jul-91	0.18	0.91	0.00	77.90	120.66	42.77	191.34	4527.31	8.57	2.61			-1.63	
27-Jul-91	0.14	0.91	0.76	77.93	120.71	42.78	191.53	4535.89	8.58	2.03	12.13	1.38	-11.19	
28-Jul-91	0.13	0.91	1.18	77.97	120.75	42.78	191.72	4544.48	8.59	1.89	18.85	2.14	2.89	
29-Jul-91	0.14	0.91	0.35	78.00	120.80	42.80	191.91	4553.08	8.60	2.04	5.60	0.63	10.51	
30-Jul-91	0.12	0.91	0.42	78.03	120.84	42.81	192.09	4561.68	8.60	1.75	6.72	0.76	-4.41	
31-Jul-91	0.14	0.91	0.77	78.11	120.89	42.78	192.28	4570.29	8.61	2.04	12.34	1.40	-2.88	
01-Aug-91	0.09	0.91	1.48	78.18	120.93	42.75	192.47	4578.92	8.62	1.31	23.74	2.68	3.07	
02-Aug-91	0.05	0.91	0.13	78.18	120.98	42.80	192.66	4587.55	8.63	0.73	2.09	0.24	16.48	
03-Aug-91	0.17	0.91	0.08	78.21	121.02	42.81	192.84	4596.18	8.64	2.49	1.29	0.15	-7.05	
04-Aug-91	0.14	0.91	0.02	78.30	121.07	42.77	193.03	4604.83	8.65	2.05	0.32	0.04	-9.70	
05-Aug-91	0.22	0.91	0.08	78.36	121.11	42.76	193.22	4613.48	8.65	3.22	1.29	0.15	-10.35	
06-Aug-91	0.15	0.91	0.07	78.31	121.16	42.85	193.41	4622.15	8.66	2.20	1.13	0.13	-10.45	
07-Aug-91	0.24	0.91	0.00	78.31	121.20	42.90	193.59	4630.82	8.67	3.52			-9.62	
08-Aug-91	0.25	0.91	0.00	78.34	121.29	42.95	193.96	4648.02	17.20	3.68			-20.72	
09-Aug-91	0.21	0.91	0.07	78.41	121.38	42.97	194.34	4665.25	17.23	3.09	1.13	0.13	-20.91	
10-Aug-91	0.13	0.91	0.00	78.41	121.47	43.06	194.71	4682.51	17.26	1.92			-19.10	
11-Aug-91	0.20	0.91	0.16	78.37	121.56	43.19	195.08	4699.81	17.30	2.96	2.60	0.29	-19.22	
12-Aug-91	0.25	0.91	0.00	78.37	121.64	43.27	195.45	4717.14	17.33	3.71			-17.40	
13-Aug-91	0.10	0.91	0.05	78.38	121.73	43.35	195.82	4734.50	17.36	1.48	0.82	0.09	-21.07	
14-Aug-91	0.24	0.91	0.00	78.37	121.82	43.46	196.19	4751.90	17.40	3.57			-17.97	
15-Aug-91	0.29	0.91	0.00	78.36	121.91	43.56	196.56	4769.33	17.43	4.32			-21.00	
16-Aug-91	0.18	0.91	0.61	78.36	121.99	43.63	196.89	4784.78	15.46	2.69	10.01	1.11	-19.78	
17-Aug-91	0.20	0.91	0.00	78.37	122.07	43.70	197.22	4800.27	15.48	2.99			-7.06	
18-Aug-91	0.25	0.91	0.00	78.39	122.15	43.76	197.55	4815.77	15.51	3.75			-18.50	
19-Aug-91	0.17	0.91	0.00	78.34	122.22	43.89	197.88	4831.31	15.53	2.55			-19.28	
20-Aug-91	0.16	0.91	0.14	78.31	122.30	43.99	198.21	4846.87	15.56	2.40	2.31	0.25	-18.11	
21-Aug-91	0.14	0.91	0.01	78.23	122.38	44.16	198.54	4862.46	15.59	2.11	0.17	0.02	-15.43	
22-Aug-91	0.23	0.91	0.00	78.20	122.46	44.26	198.87	4878.07	15.61	3.47			-17.54	
23-Aug-91	0.20	0.91	0.00	78.18	122.54	44.36	199.19	4893.71	15.64	3.02			-19.11	
24-Aug-91	0.17	0.91	0.54	78.21	122.62	44.41	199.52	4909.37	15.66	2.57	8.98	0.98	-18.69	
25-Aug-91	0.10	0.91	0.13	78.25	122.70	44.45	199.85	4925.06	15.69	1.52	2.17	0.24	-8.30	
26-Aug-91	0.13	0.91	0.00	78.26	122.77	44.51	200.18	4940.78	15.72	1.97			-14.83	
27-Aug-91	0.05	0.91	2.74	78.22	122.85	44.64	200.51	4956.52	15.74	0.76	45.78	4.97	-17.71	
28-Aug-91	0.15	0.91	0.67	78.22	122.93	44.72	200.84	4972.29	15.77	2.28	11.21	1.21	34.22	
29-Aug-91	0.21	0.91	0.64	78.17	123.01	44.84	201.17	4988.08	15.79	3.20	10.73	1.16	-5.65	
30-Aug-91	0.14	0.91	0.00	78.21	123.09	44.88	201.50	5003.90	15.82	2.14			-7.13	
31-Aug-91	0.13	0.91	0.02	78.22	123.17	44.95	201.83	5019.74	15.84	1.99	0.34	0.04	-17.98	

Average = 3.298E-04
Variance = 8.049E-07
Std. Dev. = 8.971E-04

**D4. Brooklyn Lake Daily Water Budget:
Lake Stage versus Upper Floridan Aquifer**

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jan-89	0.06	0.77	0.00	83.13	106.65	23.52	464.7	5209.7	NA	1.79			NA	NA
02-Jan-89	0.08	0.77	0.00	83.11	106.64	23.53	464.5	5205.0	-4.65	2.38			2.86	
03-Jan-89	0.08	0.77	0.00	83.14	106.62	23.48	464.1	5195.7	-9.29	2.38			6.90	
04-Jan-89	0.16	0.77	0.00	82.97	106.61	23.64	463.9	5191.1	-4.64	4.76			2.26	
05-Jan-89	0.15	0.77	0.00	82.87	106.59	23.72	463.4	5181.8	-9.27	4.46			4.51	
06-Jan-89	0.10	0.77	0.00	82.89	106.58	23.69	463.2	5177.2	-4.63	2.97			0.17	
07-Jan-89	0.10	0.77	0.00	82.85	106.56	23.71	462.8	5167.9	-9.26	2.97			6.29	
08-Jan-89	0.10	0.77	0.00	82.87	106.54	23.67	462.4	5158.7	-9.25	2.97			6.28	
09-Jan-89	0.09	0.77	0.00	82.86	106.52	23.66	462.0	5149.4	-9.24	2.67			6.28	
10-Jan-89	0.07	0.77	0.00	82.79	106.50	23.71	461.6	5140.2	-9.24	2.07			6.57	
11-Jan-89	0.03	0.77	0.00	82.76	106.48	23.72	461.1	5131.0	-9.23	0.89			7.15	
12-Jan-89	0.02	0.77	0.00	82.76	106.46	23.70	460.7	5121.8	-9.22	0.59			8.33	
13-Jan-89	0.05	0.77	0.00	82.78	106.44	23.66	460.2	5110.6	-11.18	1.48			10.59	
14-Jan-89	0.14	0.77	0.00	82.71	106.41	23.70	459.7	5099.4	-11.17	4.13			9.69	
15-Jan-89	0.09	0.77	0.00	82.74	106.39	23.65	459.2	5088.2	-11.16	2.65			7.03	
16-Jan-89	0.11	0.77	0.00	82.71	106.36	23.65	458.7	5077.1	-11.15	3.24			8.49	
17-Jan-89	0.19	0.77	0.00	82.64	106.34	23.70	458.2	5066.0	-11.13	5.59			7.90	
18-Jan-89	0.09	0.77	0.00	82.66	106.31	23.65	457.7	5054.8	-11.12	2.64			5.54	
19-Jan-89	0.10	0.77	0.00	82.66	106.29	23.63	457.2	5043.7	-11.11	2.93			8.47	
20-Jan-89	0.10	0.77	0.00	82.71	106.29	23.58	457.3	5045.7	1.96	2.93			-4.89	
21-Jan-89	0.10	0.77	0.18	82.69	106.30	23.61	457.3	5047.7	1.96	2.93	6.86	0.29	-4.89	
22-Jan-89	0.07	0.77	0.96	82.86	106.30	23.44	457.4	5049.6	1.96	2.05	36.59	1.54	2.25	
23-Jan-89	0.03	0.77	0.01	82.82	106.31	23.49	457.5	5051.6	1.96	0.88	0.38	0.02	34.12	
24-Jan-89	0.12	0.77	0.00	82.71	106.31	23.60	457.6	5053.5	1.96	3.52			-2.44	
25-Jan-89	0.13	0.77	0.00	82.66	106.32	23.66	457.7	5055.5	1.96	3.82			-5.49	
26-Jan-89	0.14	0.77	0.00	82.62	106.32	23.70	457.8	5057.5	1.96	4.11			-5.78	
27-Jan-89	0.10	0.77	0.00	82.67	106.30	23.63	457.3	5047.0	-10.46	2.93			6.35	
28-Jan-89	0.13	0.77	0.00	82.64	106.27	23.63	456.8	5036.6	-10.45	3.81			7.51	
29-Jan-89	0.11	0.77	0.00	82.67	106.25	23.58	456.4	5026.1	-10.44	3.22			6.63	
30-Jan-89	0.11	0.77	0.00	82.71	106.23	23.52	455.9	5015.7	-10.43	3.22			7.20	
31-Jan-89	0.12	0.77	0.00	82.63	106.21	23.58	455.4	5005.3	-10.41	3.51			7.20	
01-Feb-89	0.16	0.69	0.00	82.56	106.18	23.62	454.9	4994.9	-10.40	4.19			6.90	
02-Feb-89	0.09	0.69	0.00	82.50	106.16	23.66	454.4	4984.5	-10.39	2.35			6.21	
03-Feb-89	0.13	0.69	0.00	82.45	106.14	23.69	454.0	4975.4	-9.08	3.39			6.73	
04-Feb-89	0.13	0.69	0.00	82.47	106.12	23.65	453.6	4966.3	-9.08	3.39			5.68	
05-Feb-89	0.12	0.69	0.00	82.52	106.10	23.58	453.2	4957.3	-9.07	3.13			5.68	
06-Feb-89	0.16	0.69	0.00	82.53	106.08	23.55	452.8	4948.2	-9.06	4.17			5.93	
07-Feb-89	0.17	0.69	0.00	82.48	106.06	23.58	452.3	4939.1	-9.05	4.42			4.89	
08-Feb-89	0.07	0.69	0.00	82.41	106.04	23.63	451.9	4930.1	-9.04	1.82			4.62	
09-Feb-89	0.21	0.69	0.00	82.28	106.02	23.74	451.5	4921.1	-9.03	5.45			7.22	
10-Feb-89	0.16	0.69	0.00	82.27	106.04	23.77	452.0	4931.4	10.33	4.16			-15.78	
11-Feb-89	0.14	0.69	0.00	82.32	106.07	23.75	452.5	4941.7	10.34	3.64			-14.50	
12-Feb-89	0.13	0.69	0.00	82.28	106.09	23.81	452.9	4952.1	10.35	3.39			-13.99	
13-Feb-89	0.12	0.69	0.00	82.23	106.11	23.88	453.4	4962.4	10.36	3.13			-13.74	
14-Feb-89	0.14	0.69	0.00	82.15	106.13	23.98	453.9	4972.8	10.37	3.65			-13.50	
15-Feb-89	0.17	0.69	0.00	82.11	106.16	24.05	454.4	4983.2	10.38	4.44			-14.03	
16-Feb-89	0.17	0.69	0.00	82.13	106.18	24.05	454.9	4993.6	10.39	4.45			-14.83	
17-Feb-89	0.15	0.69	0.00	82.16	106.10	23.94	453.2	4956.6	-36.97	3.91			32.52	
18-Feb-89	0.09	0.69	0.00	82.19	106.02	23.83	451.4	4919.8	-36.83	2.34			32.92	
19-Feb-89	0.04	0.69	0.00	82.22	105.94	23.72	449.7	4883.1	-36.69	1.03			34.36	
20-Feb-89	0.08	0.69	0.00	82.25	105.85	23.60	448.0	4846.5	-36.55	2.06			35.52	
21-Feb-89	0.14	0.69	0.00	82.28	105.77	23.49	446.3	4810.1	-36.41	3.59			34.35	
22-Feb-89	0.21	0.69	0.84	82.32	105.69	23.37	444.6	4773.8	-36.28	5.37	31.12	1.34	32.68	
23-Feb-89	0.15	0.69	0.00	82.18	105.61	23.43	442.9	4737.7	-36.14	3.82			63.24	
24-Feb-89	0.14	0.69	0.00	81.96	105.62	23.66	443.1	4740.9	3.16	3.57			-6.98	
25-Feb-89	0.14	0.69	0.00	81.92	105.62	23.70	443.2	4744.0	3.17	3.57			-6.73	
26-Feb-89	0.14	0.69	0.00	81.99	105.63	23.64	443.4	4747.2	3.17	3.57			-6.73	
27-Feb-89	0.15	0.69	0.00	82.12	105.64	23.52	443.5	4750.4	3.17	3.83			-6.74	
28-Feb-89	0.19	0.69	0.00	82.08	105.65	23.57	443.7	4753.5	3.17	4.85			-6.99	
01-Mar-89	0.20	0.73	0.00	82.02	105.65	23.63	443.8	4756.7	3.17	5.40			-8.02	
02-Mar-89	0.11	0.73	0.92	82.16	105.66	23.50	444.0	4759.9	3.17	2.97	34.04	1.47	-8.57	
03-Mar-89	0.01	0.73	0.21	82.23	105.64	23.41	443.5	4750.4	-9.51	0.27	7.76	0.34	42.05	
04-Mar-89	0.13	0.73	0.13	82.16	105.62	23.46	443.1	4740.9	-9.50	3.50	4.80	0.21	17.33	
05-Mar-89	0.18	0.73	0.00	82.15	105.60	23.45	442.6	4731.4	-9.49	4.85			10.99	
06-Mar-89	0.19	0.73	0.00	82.15	105.57	23.42	442.2	4721.9	-9.48	5.11			4.63	
07-Mar-89	0.15	0.73	0.00	82.12	105.55	23.43	441.7	4712.4	-9.47	4.03			4.36	
08-Mar-89	0.09	0.73	0.00	82.04	105.53	23.49	441.3	4703.0	-9.46	2.42			5.43	
09-Mar-89	0.05	0.73	0.00	82.00	105.51	23.51	440.8	4693.5	-9.45	1.34			7.04	
10-Mar-89	0.04	0.73	0.00	81.99	105.49	23.50	440.3	4682.8	-10.70	1.07			9.36	
11-Mar-89	0.21	0.73	0.00	81.96	105.46	23.50	439.8	4672.1	-10.69	5.62			9.62	
12-Mar-89	0.19	0.73	0.00	81.99	105.44	23.45	439.3	4661.4	-10.68	5.08			5.06	

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 1920					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
13-Mar-89	0.23	0.73	0.00	81.97	105.41	23.44	438.8	4650.8	-10.66	6.14				5.59		
14-Mar-89	0.20	0.73	0.00	81.93	105.39	23.46	438.3	4640.1	-10.65	5.33				4.51		
15-Mar-89	0.30	0.73	0.00	81.86	105.36	23.50	437.8	4629.5	-10.64	7.99				5.31		
16-Mar-89	0.19	0.73	0.00	81.78	105.34	23.56	437.3	4618.9	-10.63	5.05				2.64		
17-Mar-89	0.23	0.73	0.00	81.70	105.32	23.62	436.8	4608.3	-10.61	6.11				5.56		
18-Mar-89	0.23	0.73	0.00	81.65	105.29	23.64	436.3	4597.7	-10.60	6.10				4.49		
19-Mar-89	0.19	0.73	0.00	81.61	105.27	23.66	435.7	4587.1	-10.59	5.04				4.48		
20-Mar-89	0.26	0.73	0.00	81.62	105.24	23.62	435.2	4576.5	-10.58	6.88				5.54		
21-Mar-89	0.15	0.73	0.00	81.66	105.22	23.56	434.7	4565.9	-10.56	3.97				3.68		
22-Mar-89	0.22	0.73	0.00	81.65	105.19	23.54	434.2	4555.4	-10.55	5.81				6.58		
23-Mar-89	0.14	0.73	0.22	81.75	105.17	23.42	433.7	4544.8	-10.54	3.69	7.95	0.35		4.73		
24-Mar-89	0.17	0.73	0.08	81.71	105.15	23.44	433.3	4535.5	-9.29	4.48	2.89	0.13		13.90		
25-Mar-89	0.12	0.73	0.00	81.68	105.13	23.45	432.8	4526.3	-9.28	3.16				7.82		
26-Mar-89	0.12	0.73	0.00	81.66	105.11	23.45	432.4	4517.0	-9.27	3.16				6.11		
27-Mar-89	0.21	0.73	0.00	81.58	105.08	23.50	431.9	4507.7	-9.26	5.52				6.10		
28-Mar-89	0.21	0.73	0.00	81.56	105.06	23.50	431.5	4498.5	-9.25	5.51				3.73		
29-Mar-89	0.26	0.73	0.00	81.56	105.04	23.48	431.0	4489.2	-9.24	6.82				3.73		
30-Mar-89	0.19	0.73	0.00	81.62	105.02	23.40	430.6	4480.0	-9.23	4.98				2.41		
31-Mar-89	0.17	0.73	0.00	81.60	105.00	23.40	430.1	4470.3	-9.68	4.45				4.71		
01-Apr-89	0.38	0.84	0.00	81.39	104.98	23.59	429.6	4460.7	-9.67	11.43				5.22		
02-Apr-89	0.23	0.84	0.00	81.32	104.96	23.63	429.2	4451.0	-9.66	6.91				-1.77		
03-Apr-89	0.23	0.84	0.00	81.30	104.93	23.63	428.7	4441.3	-9.65	6.90				2.74		
04-Apr-89	0.18	0.84	0.00	81.26	104.91	23.65	428.2	4431.7	-9.64	5.40				2.74		
05-Apr-89	0.23	0.84	0.19	81.35	104.89	23.54	427.7	4422.1	-9.63	6.89	6.77	0.30		4.23		
06-Apr-89	0.17	0.84	0.12	81.42	104.86	23.44	427.3	4412.5	-9.62	5.08	4.27	0.19		9.81		
07-Apr-89	0.27	0.84	0.00	81.47	104.84	23.37	426.8	4402.8	-9.61	8.07				8.99		
08-Apr-89	0.22	0.84	0.00	81.43	104.80	23.37	426.0	4387.0	-15.84	6.56				7.77		
09-Apr-89	0.25	0.84	0.00	81.33	104.77	23.44	425.2	4371.2	-15.81	7.44				9.25		
10-Apr-89	0.25	0.84	0.00	81.24	104.73	23.49	424.5	4355.4	-15.78	7.43				8.34		
11-Apr-89	0.23	0.84	0.08	81.22	104.69	23.47	423.7	4339.7	-15.75	6.82	2.82	0.13		8.32		
12-Apr-89	0.04	0.84	0.13	81.26	104.65	23.39	422.9	4323.9	-15.72	1.18	4.58	0.21		11.85		
13-Apr-89	0.15	0.84	0.00	81.28	104.62	23.34	422.1	4308.3	-15.69	4.43				19.30		
14-Apr-89	0.12	0.84	0.00	81.24	104.58	23.34	421.4	4292.6	-15.67	3.54				11.23		
15-Apr-89	0.16	0.84	0.75	81.35	104.56	23.21	420.8	4282.1	-10.53	4.71	26.30	1.20		6.99		
16-Apr-89	0.10	0.84	0.06	81.30	104.53	23.23	420.3	4271.5	-10.51	2.94	2.10	0.10		33.30		
17-Apr-89	0.20	0.84	0.00	81.17	104.51	23.34	419.8	4261.0	-10.50	5.88				9.76		
18-Apr-89	0.24	0.84	0.00	81.17	104.48	23.31	419.3	4250.6	-10.49	7.04				4.61		
19-Apr-89	0.21	0.84	0.00	81.17	104.46	23.28	418.7	4240.1	-10.48	6.16				3.43		
20-Apr-89	0.21	0.84	0.00	81.16	104.43	23.27	418.2	4229.6	-10.46	6.15				4.31		
21-Apr-89	0.17	0.84	0.01	81.18	104.40	23.22	417.6	4218.3	-11.34	4.97	0.35	0.02		5.20		
22-Apr-89	0.13	0.84	0.00	81.06	104.38	23.32	417.1	4206.9	-11.33	3.80				6.72		
23-Apr-89	0.21	0.84	0.00	80.97	104.35	23.38	416.5	4195.6	-11.31	6.12				7.52		
24-Apr-89	0.23	0.84	0.00	80.91	104.32	23.41	415.9	4184.3	-11.30	6.70				5.18		
25-Apr-89	0.26	0.84	0.00	80.91	104.29	23.38	415.4	4173.0	-11.28	7.56				4.59		
26-Apr-89	0.27	0.84	0.00	80.88	104.27	23.39	414.8	4161.8	-11.27	7.84				3.71		
27-Apr-89	0.27	0.84	0.00	80.85	104.24	23.39	414.2	4150.5	-11.25	7.83				3.41		
28-Apr-89	0.29	0.84	0.00	80.78	104.21	23.43	413.7	4139.9	-10.65	8.40				2.82		
29-Apr-89	0.28	0.84	0.00	80.69	104.19	23.50	413.2	4129.3	-10.63	8.10				2.23		
30-Apr-89	0.28	0.84	0.00	80.68	104.16	23.48	412.6	4118.6	-10.62	8.09				2.52		
01-May-89	0.22	0.82	0.08	80.85	104.14	23.29	412.1	4108.0	-10.60	6.19	2.75	0.13		2.52		
02-May-89	0.13	0.82	0.59	80.87	104.11	23.24	411.5	4097.4	-10.59	3.66	20.23	0.94		7.27		
03-May-89	0.27	0.82	0.00	80.77	104.09	23.32	411.0	4086.9	-10.58	7.58				28.10		
04-May-89	0.25	0.82	0.00	80.73	104.06	23.33	410.5	4076.3	-10.56	7.01				2.98		
05-May-89	0.22	0.82	0.00	80.70	104.02	23.32	409.7	4061.7	-14.65	6.16				7.63		
06-May-89	0.26	0.82	0.00	80.72	103.99	23.27	409.0	4047.0	-14.62	7.27				8.46		
07-May-89	0.30	0.82	0.10	80.73	103.95	23.22	408.2	4032.4	-14.59	8.37	3.40	0.16		7.33		
08-May-89	0.39	0.82	0.00	80.66	103.92	23.26	407.5	4017.9	-14.57	10.86				9.76		
09-May-89	0.24	0.82	0.00	80.63	103.88	23.25	406.7	4003.3	-14.54	6.67				3.68		
10-May-89	0.31	0.82	0.00	80.68	103.85	23.17	406.0	3988.8	-14.51	8.60				7.84		
11-May-89	0.16	0.82	0.30	80.73	103.81	23.08	405.2	3974.3	-14.49	4.43	10.13	0.48		5.89		
12-May-89	0.27	0.82	0.00	80.67	103.78	23.11	404.6	3961.6	-12.73	7.46				18.91		
13-May-89	0.32	0.82	0.00	80.60	103.75	23.15	403.9	3948.9	-12.71	8.83				5.24		
14-May-89	0.16	0.82	0.00	80.52	103.72	23.20	403.3	3936.2	-12.68	4.41				3.85		
15-May-89	0.28	0.82	0.00	80.42	103.68	23.26	402.6	3923.8	-12.66	7.70				8.25		
16-May-89	0.31	0.82	0.00	80.37	103.65	23.28	401.9	3910.9	-12.64	8.51				4.94		
17-May-89	0.31	0.82	0.00	80.30	103.62	23.32	401.3	3898.3	-12.62	8.50				4.11		
18-May-89	0.32	0.82	0.00	80.22	103.59	23.37	400.6	3885.7	-12.60	8.76				4.10		
19-May-89	0.31	0.82	0.00	80.23	103.56	23.33	400.1	3875.4	-10.30	8.48				1.53		
20-May-89	0.19	0.82	0.00	80.20	103.54	23.34	399.5	3865.1	-10.28	5.19				1.81		
21-May-89	0.20	0.82	0.02	80.23	103.51	23.28	399.0	3854.8	-10.27	5.45	0.67	0.03		5.08		

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
22-May-89	0.25	0.82	0.74	80.40	103.49	23.09	398.5	3844.6	-10.25	6.81	24.57	1.18	5.50	
23-May-89	0.22	0.82	0.00	80.34	103.46	23.12	397.9	3834.4	-10.24	5.98			29.19	
24-May-89	0.23	0.82	0.00	80.33	103.44	23.11	397.4	3824.1	-10.23	6.25			4.24	
25-May-89	0.16	0.82	0.10	80.30	103.41	23.11	396.9	3813.9	-10.21	4.34	3.31	0.16	3.97	
26-May-89	0.23	0.82	0.00	80.15	103.38	23.23	396.2	3800.9	-13.03	6.23			12.16	
27-May-89	0.28	0.82	0.00	80.04	103.34	23.30	395.5	3787.9	-13.01	7.57			6.78	
28-May-89	0.33	0.82	0.00	79.98	103.31	23.33	394.8	3774.9	-12.98	8.90			5.42	
29-May-89	0.36	0.82	0.00	79.91	103.28	23.37	394.1	3761.9	-12.96	9.69			4.06	
30-May-89	0.25	0.82	0.05	79.92	103.25	23.33	393.4	3749.0	-12.94	6.72	1.64	0.08	3.24	
31-May-89	0.30	0.82	0.00	79.89	103.21	23.32	392.7	3736.1	-12.92	8.05			7.91	
01-Jun-89	0.35	0.85	0.00	79.85	103.18	23.33	392.0	3723.2	-12.89	9.72			4.84	
02-Jun-89	0.34	0.85	0.00	79.79	103.17	23.38	391.9	3720.8	-2.35	9.44			-7.37	
03-Jun-89	0.28	0.85	0.00	79.77	103.17	23.40	391.8	3718.5	-2.35	7.77			-7.09	
04-Jun-89	0.33	0.85	0.00	79.72	103.16	23.44	391.7	3716.1	-2.35	9.16			-5.42	
05-Jun-89	0.30	0.85	0.00	79.75	103.16	23.41	391.5	3713.8	-2.35	8.32			-6.81	
06-Jun-89	0.27	0.85	0.00	79.95	103.15	23.20	391.4	3711.4	-2.35	7.49			-5.97	
07-Jun-89	0.12	0.85	0.47	80.07	103.11	23.04	390.5	3693.8	-17.59	3.32	15.29	0.75	10.11	
08-Jun-89	0.11	0.85	0.01	80.05	103.06	23.01	389.5	3676.3	-17.55	3.04	0.32	0.02	30.28	
09-Jun-89	0.15	0.85	0.81	80.07	103.04	22.97	389.1	3668.0	-8.34	4.13	26.26	1.30	5.65	
10-Jun-89	0.28	0.85	0.00	79.95	103.02	23.07	388.6	3659.6	-8.33	7.71			31.76	
11-Jun-89	0.30	0.85	0.00	79.90	103.00	23.10	388.2	3651.3	-8.32	8.25			0.62	
12-Jun-89	0.27	0.85	0.00	79.90	102.97	23.07	387.7	3643.0	-8.31	7.42			0.06	
13-Jun-89	0.26	0.85	0.00	79.89	102.95	23.06	387.3	3634.7	-8.30	7.13			0.89	
14-Jun-89	0.29	0.85	0.00	79.81	102.93	23.12	386.8	3626.4	-8.29	7.95			1.16	
15-Jun-89	0.31	0.85	0.00	79.73	102.91	23.18	386.4	3618.1	-8.28	8.48			0.34	
16-Jun-89	0.28	0.85	0.00	79.74	102.91	23.17	386.4	3618.1	0.00	7.66			-8.48	
17-Jun-89	0.33	0.85	1.31	79.71	102.91	23.20	386.4	3618.1	0.00	9.03	42.18	2.10	-7.66	
18-Jun-89	0.14	0.85	0.02	79.72	102.91	23.19	386.4	3618.1	0.00	3.83	0.64	0.03	35.24	
19-Jun-89	0.40	0.85	0.94	79.86	102.91	23.05	386.4	3618.1	0.00	10.95	30.27	1.50	-3.16	
20-Jun-89	0.31	0.85	0.09	79.90	102.91	23.01	386.4	3618.1	0.00	8.48	2.90	0.14	20.82	
21-Jun-89	0.15	0.85	1.72	79.84	102.91	23.07	386.4	3618.1	0.00	4.11	55.38	2.75	-5.44	
22-Jun-89	0.25	0.85	1.72	79.84	102.91	23.07	386.4	3618.1	0.00	6.84	55.38	2.75	54.03	
23-Jun-89	0.32	0.85	0.00	79.85	102.88	23.03	385.8	3606.5	-11.58	8.74			62.87	
24-Jun-89	0.13	0.85	0.70	79.89	102.85	22.96	385.1	3595.0	-11.56	3.55	22.47	1.12	2.82	
25-Jun-89	0.15	0.85	0.00	79.87	102.82	22.95	384.5	3583.4	-11.54	4.09			31.58	
26-Jun-89	0.21	0.85	0.00	79.81	102.79	22.98	383.9	3571.9	-11.53	5.71			7.44	
27-Jun-89	0.25	0.85	0.00	79.75	102.76	23.01	383.2	3560.4	-11.51	6.79			5.80	
28-Jun-89	0.30	0.85	0.00	79.67	102.73	23.06	382.6	3548.9	-11.49	8.13			4.70	
29-Jun-89	0.25	0.85	2.20	79.67	102.70	23.03	382.0	3537.4	-11.47	6.76	70.03	3.52	3.34	
30-Jun-89	0.18	0.85	0.67	79.75	102.74	22.99	382.8	3551.6	14.20	4.88	21.37	1.07	52.58	
01-Jul-89	0.27	0.91	0.08	79.85	102.77	22.92	383.5	3565.9	14.23	7.85	2.56	0.13	3.33	
02-Jul-89	0.18	0.91	0.27	79.89	102.81	22.92	384.3	3580.1	14.26	5.25	8.65	0.43	-19.43	
03-Jul-89	0.21	0.91	0.02	79.89	102.85	22.96	385.1	3594.4	14.29	6.13	0.64	0.03	-10.46	
04-Jul-89	0.23	0.91	0.00	79.89	102.89	23.00	385.9	3608.7	14.32	6.73			-19.78	
05-Jul-89	0.14	0.91	0.00	79.84	102.92	23.08	386.7	3623.1	14.35	4.10			-21.08	
06-Jul-89	0.25	0.91	0.00	79.74	102.96	23.22	387.4	3637.4	14.38	7.35			-18.48	
07-Jul-89	0.20	0.91	0.00	79.69	102.96	23.27	387.4	3637.4	0.00	5.88			-7.35	
08-Jul-89	0.24	0.91	0.00	79.68	102.96	23.28	387.4	3637.4	0.00	7.05			-5.88	
09-Jul-89	0.30	0.91	0.00	79.67	102.96	23.29	387.4	3637.4	0.00	8.81			-7.05	
10-Jul-89	0.30	0.91	0.00	79.67	102.96	23.29	387.4	3637.4	0.00	8.81			-8.81	
11-Jul-89	0.23	0.91	0.00	79.62	102.96	23.34	387.4	3637.4	0.00	6.76			-8.81	
12-Jul-89	0.36	0.91	0.00	79.59	102.96	23.37	387.4	3637.4	0.00	10.58			-6.76	
13-Jul-89	0.31	0.91	0.17	79.64	102.96	23.32	387.4	3637.4	0.00	9.11	5.49	0.27	-10.58	
14-Jul-89	0.17	0.91	0.00	79.75	102.94	23.19	386.9	3628.0	-9.40	4.99			6.06	
15-Jul-89	0.13	0.91	0.01	79.71	102.91	23.20	386.4	3618.7	-9.39	3.81	0.32	0.02	4.40	
16-Jul-89	0.17	0.91	0.00	79.72	102.89	23.17	385.9	3609.3	-9.38	4.97			5.91	
17-Jul-89	0.17	0.91	0.00	79.72	102.86	23.14	385.4	3599.9	-9.37	4.97			4.39	
18-Jul-89	0.22	0.91	0.00	79.70	102.84	23.14	384.9	3590.6	-9.35	6.42			4.39	
19-Jul-89	0.21	0.91	0.05	79.70	102.81	23.11	384.4	3581.2	-9.34	6.12	1.60	0.08	2.92	
20-Jul-89	0.11	0.91	0.51	79.75	102.79	23.04	383.9	3571.9	-9.33	3.20	16.31	0.82	4.89	
21-Jul-89	0.17	0.91	0.25	79.70	102.77	23.07	383.5	3565.9	-6.03	4.94	7.99	0.40	19.96	
22-Jul-89	0.34	0.91	1.86	79.63	102.76	23.13	383.2	3559.8	-6.02	9.88	59.40	2.98	9.47	
23-Jul-89	0.25	0.91	0.72	79.64	102.74	23.10	382.9	3553.8	-6.02	7.26	22.97	1.15	58.51	
24-Jul-89	0.16	0.91	0.01	79.65	102.73	23.08	382.6	3547.8	-6.01	4.64	0.32	0.02	22.88	
25-Jul-89	0.21	0.91	0.00	79.63	102.71	23.08	382.2	3541.8	-6.01	6.09			1.70	
26-Jul-89	0.29	0.91	0.00	79.63	102.70	23.07	381.9	3535.8	-6.00	8.40			-0.08	
27-Jul-89	0.18	0.91	0.03	79.67	102.68	23.01	381.6	3529.8	-6.00	5.21	0.95	0.05	-2.40	
28-Jul-89	0.31	0.91	0.00	79.64	102.67	23.03	381.3	3524.9	-4.90	8.96			0.70	
29-Jul-89	0.39	0.91	0.00	79.58	102.65	23.07	381.0	3520.0	-4.90	11.27			-4.06	
30-Jul-89	0.31	0.91	0.00	79.57	102.64	23.07	380.8	3515.1	-4.90	8.95			-6.37	

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
31-Jul-89	0.14	0.91	0.00	79.52	102.63	23.11	380.5	3510.2	-4.89	4.04			-4.06	
01-Aug-89	0.31	0.91	0.00	79.50	102.62	23.12	380.2	3505.3	-4.89	8.94			0.85	
02-Aug-89	0.19	0.91	0.00	79.54	102.60	23.06	380.0	3500.4	-4.89	5.47			-4.05	
03-Aug-89	0.27	0.91	0.75	79.59	102.59	23.00	379.7	3495.5	-4.88	7.77	23.73	1.20	-0.59	
04-Aug-89	0.24	0.91	0.00	79.55	102.56	23.01	379.1	3485.6	-9.89	6.90			27.05	
05-Aug-89	0.30	0.91	0.00	79.52	102.54	23.02	378.6	3475.8	-9.88	8.61			2.98	
06-Aug-89	0.23	0.91	0.00	79.49	102.51	23.02	378.0	3465.9	-9.86	6.59			1.25	
07-Aug-89	0.30	0.91	0.00	79.40	102.49	23.09	377.5	3456.0	-9.85	8.59			3.26	
08-Aug-89	0.23	0.91	0.00	79.35	102.46	23.11	377.0	3446.2	-9.84	6.57			1.25	
09-Aug-89	0.20	0.91	0.23	79.33	102.43	23.10	376.4	3436.4	-9.82	5.71	7.21	0.37	3.25	3.73E-04
10-Aug-89	0.05	0.91	0.11	79.41	102.41	23.00	375.9	3426.6	-9.81	1.43	3.45	0.18	11.68	1.35E-03
11-Aug-89	0.12	0.91	0.50	79.46	102.38	22.92	375.3	3416.8	-9.79	3.42	15.64	0.80	11.99	1.39E-03
12-Aug-89	0.29	0.91	1.29	79.48	102.36	22.88	374.8	3407.0	-9.78	8.24	40.29	2.06	22.80	2.66E-03
13-Aug-89	0.10	0.91	0.13	79.51	102.33	22.82	374.2	3397.2	-9.76	2.84	4.05	0.21	43.87	5.14E-03
14-Aug-89	0.12	0.91	0.01	79.54	102.30	22.76	373.7	3387.5	-9.75	3.40	0.31	0.02	11.17	1.31E-03
15-Aug-89	0.24	0.91	0.88	79.53	102.28	22.75	373.1	3377.8	-9.74	6.79	27.36	1.41	6.66	7.85E-04
16-Aug-89	0.33	0.91	0.00	79.52	102.25	22.73	372.6	3368.0	-9.72	9.32			31.70	3.74E-03
17-Aug-89	0.18	0.91	0.01	79.46	102.23	22.76	372.0	3358.3	-9.71	5.08	0.31	0.02	0.38	4.52E-05
18-Aug-89	0.21	0.91	0.00	79.40	102.20	22.80	371.5	3348.6	-9.69	5.92			4.94	5.83E-04
19-Aug-89	0.25	0.91	0.00	79.38	102.17	22.79	370.9	3339.0	-9.68	7.03			3.76	4.45E-04
20-Aug-89	0.18	0.91	0.10	79.44	102.15	22.71	370.4	3329.3	-9.66	5.06	3.09	0.16	2.63	3.13E-04
21-Aug-89	0.20	0.91	0.31	79.47	102.12	22.65	369.9	3319.6	-9.65	5.61	9.55	0.50	7.84	9.36E-04
22-Aug-89	0.24	0.91	0.20	79.46	102.09	22.63	369.3	3310.0	-9.64	6.72	6.16	0.32	14.08	1.68E-03
23-Aug-89	0.34	0.91	1.40	79.45	102.07	22.62	368.8	3300.4	-9.62	9.51	43.02	2.24	9.38	1.12E-03
24-Aug-89	0.28	0.91	0.00	79.43	102.04	22.61	368.2	3290.8	-9.61	7.82			45.36	5.45E-03
25-Aug-89	0.32	0.91	0.49	79.50	102.02	22.52	367.7	3281.2	-9.59	8.92	15.01	0.78	1.77	2.14E-04
26-Aug-89	0.17	0.91	0.06	79.48	101.99	22.51	367.1	3271.6	-9.58	4.73	1.84	0.10	16.45	1.99E-03
27-Aug-89	0.25	0.91	0.60	79.46	101.96	22.50	366.6	3262.0	-9.56	6.95	18.33	0.96	6.76	8.20E-04
28-Aug-89	0.24	0.91	0.74	79.44	101.94	22.50	366.0	3252.5	-9.55	6.66	22.57	1.18	21.89	2.66E-03
29-Aug-89	0.26	0.91	0.00	79.43	101.91	22.48	365.5	3243.0	-9.54	7.21			26.63	3.24E-03
30-Aug-89	0.27	0.91	0.00	79.45	101.89	22.44	364.9	3233.4	-9.52	7.47			2.32	2.83E-04
31-Aug-89	0.22	0.91	0.00	79.41	101.86	22.45	364.4	3223.9	-9.51	6.08			2.04	2.49E-04
01-Sep-89	0.31	0.85	1.27	79.47	101.87	22.40	364.6	3227.6	3.65	8.01	38.59	2.03	-9.72	
02-Sep-89	0.26	0.85	0.23	79.47	101.88	22.41	364.8	3231.2	3.65	6.72	6.99	0.37	28.97	3.54E-03
03-Sep-89	0.27	0.85	1.63	79.46	101.89	22.43	365.0	3234.9	3.65	6.98	49.58	2.61	-3.01	
04-Sep-89	0.19	0.85	0.24	79.45	101.90	22.45	365.2	3238.5	3.65	4.92	7.30	0.38	41.56	5.07E-03
05-Sep-89	0.15	0.85	0.13	79.48	101.91	22.43	365.4	3242.2	3.65	3.88	3.96	0.21	-0.88	
06-Sep-89	0.29	0.85	0.55	79.50	101.92	22.42	365.7	3245.8	3.66	7.51	16.76	0.88	-3.37	
07-Sep-89	0.18	0.85	0.00	79.54	101.93	22.39	365.9	3249.5	3.66	4.66			6.47	7.90E-04
08-Sep-89	0.14	0.85	0.33	79.58	101.90	22.32	365.2	3238.0	-11.49	3.62	10.04	0.53	6.82	8.37E-04
09-Sep-89	0.19	0.85	0.28	79.58	101.87	22.29	364.5	3226.5	-11.47	4.91	8.51	0.45	18.42	2.27E-03
10-Sep-89	0.23	0.85	0.00	79.56	101.84	22.28	363.9	3215.1	-11.45	5.93			15.50	1.91E-03
11-Sep-89	0.21	0.85	0.00	79.56	101.80	22.24	363.2	3203.7	-11.43	5.40			5.50	6.80E-04
12-Sep-89	0.21	0.85	0.00	79.54	101.77	22.23	362.6	3192.2	-11.41	5.39			6.00	7.45E-04
13-Sep-89	0.23	0.85	0.00	79.57	101.74	22.17	361.9	3180.9	-11.39	5.90			5.99	7.47E-04
14-Sep-89	0.17	0.85	0.00	79.59	101.71	22.12	361.3	3169.5	-11.36	4.35			5.47	6.84E-04
15-Sep-89	0.18	0.85	0.01	79.61	101.71	22.10	361.3	3171.0	1.55	4.61	0.30	0.02	-5.90	
16-Sep-89	0.22	0.85	0.42	79.60	101.72	22.12	361.4	3172.6	1.55	5.63	12.65	0.67	-5.84	
17-Sep-89	0.13	0.85	0.55	79.71	101.72	22.01	361.5	3174.1	1.55	3.33	16.57	0.88	6.14	7.72E-04
18-Sep-89	0.11	0.85	0.33	79.81	101.73	21.92	361.6	3175.7	1.55	2.82	9.94	0.53	12.57	1.59E-03
19-Sep-89	0.21	0.85	0.00	79.73	101.73	22.00	361.7	3177.2	1.55	5.38			6.10	7.67E-04
20-Sep-89	0.23	0.85	0.00	79.70	101.74	22.04	361.8	3178.8	1.55	5.89			6.93	
21-Sep-89	0.22	0.85	0.00	79.74	101.74	22.00	361.9	3180.3	1.55	5.64			7.45	
22-Sep-89	0.23	0.85	0.00	79.71	101.74	22.03	361.8	3179.1	-1.21	5.89			-4.43	
23-Sep-89	0.06	0.85	0.75	79.73	101.73	22.00	361.7	3177.9	-1.21	1.54	22.61	1.20	-4.69	
24-Sep-89	0.06	0.85	0.32	79.71	101.73	22.02	361.7	3176.7	-1.21	1.54	9.64	0.51	23.48	2.95E-03
25-Sep-89	0.10	0.85	0.42	79.78	101.73	21.95	361.6	3175.5	-1.21	2.56	12.66	0.67	9.83	1.24E-03
26-Sep-89	0.01	0.85	0.26	79.78	101.72	21.94	361.5	3174.3	-1.21	0.26	7.83	0.42	11.97	1.51E-03
27-Sep-89	0.08	0.85	0.02	79.72	101.72	22.00	361.5	3173.1	-1.21	2.05	0.60	0.03	9.20	1.16E-03
28-Sep-89	0.15	0.85	0.00	79.72	101.71	21.99	361.2	3167.9	-5.22	3.84			3.81	4.79E-04
29-Sep-89	0.16	0.85	0.38	79.76	101.69	21.93	360.9	3162.7	-5.21	4.09	11.43	0.61	1.38	1.74E-04
30-Sep-89	0.18	0.85	0.00	79.75	101.68	21.93	360.6	3157.5	-5.21	4.60			13.16	1.66E-03
01-Oct-89	0.24	0.76	0.57	79.78	101.66	21.88	360.3	3152.3	-5.21	5.48	17.11	0.91	0.61	7.72E-05
02-Oct-89	0.21	0.76	1.30	79.80	101.65	21.85	360.0	3147.1	-5.20	4.79	39.00	2.08	17.75	2.26E-03
03-Oct-89	0.18	0.76	0.00	79.78	101.63	21.85	359.7	3141.9	-5.20	4.10			41.49	5.28E-03
04-Oct-89	0.15	0.76	0.00	79.78	101.62	21.84	359.3	3136.7	-5.19	3.41			1.09	1.39E-04
05-Oct-89	0.20	0.76	0.00	79.73	101.60	21.87	359.0	3131.5	-5.19	4.55			1.77	2.26E-04
06-Oct-89	0.19	0.76	0.00	79.71	101.59	21.88	358.7	3126.3	-5.18	4.32			0.64	8.11E-05
07-Oct-89	0.21	0.76	0.00	79.73	101.54	21.80	357.6	3106.6	-19.70	4.76			15.38	1.97E-03
08-Oct-89	0.26	0.76	0.25	79.78	101.48	21.70	356.4	3087.0	-19.64	5.87	7.43	0.40	14.88	1.92E-03

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
09-Oct-89	0.18	0.76	0.00	79.72	101.43	21.70	355.3	3067.4	-19.57	4.05			21.53	2.79E-03
10-Oct-89	0.11	0.76	0.00	79.76	101.37	21.61	354.1	3047.9	-19.51	2.47			15.46	2.02E-03
11-Oct-89	0.07	0.76	0.00	79.72	101.33	21.60	353.2	3032.0	-15.92	1.57			13.45	1.76E-03
12-Oct-89	0.13	0.76	0.05	79.66	101.28	21.62	352.3	3016.1	-15.87	2.90	1.47	0.08	14.31	1.88E-03
13-Oct-89	0.13	0.76	0.00	79.66	101.26	21.60	351.8	3008.5	-7.54	2.90			6.19	8.15E-04
14-Oct-89	0.16	0.76	0.00	79.65	101.24	21.59	351.4	3001.0	-7.53	3.56			4.64	6.11E-04
15-Oct-89	0.16	0.76	0.00	79.60	101.22	21.62	350.9	2993.5	-7.52	3.56			3.96	5.23E-04
16-Oct-89	0.08	0.76	0.00	79.58	101.19	21.61	350.5	2986.0	-7.51	1.78			3.96	5.23E-04
17-Oct-89	0.19	0.76	0.00	79.57	101.17	21.60	350.0	2978.5	-7.51	4.21			5.73	7.58E-04
18-Oct-89	0.15	0.76	0.27	79.62	101.15	21.53	349.6	2971.0	-7.50	3.32	7.87	0.43	3.28	4.36E-04
19-Oct-89	0.16	0.76	0.66	79.59	101.13	21.54	349.1	2963.5	-7.49	3.54	19.20	1.06	12.46	1.66E-03
20-Oct-89	0.14	0.76	0.02	79.49	101.09	21.60	348.3	2950.0	-13.45	3.09	0.58	0.03	30.17	4.01E-03
21-Oct-89	0.15	0.76	0.00	79.41	101.05	21.64	347.5	2936.6	-13.42	3.30			10.94	1.46E-03
22-Oct-89	0.13	0.76	0.00	79.41	101.01	21.60	346.7	2923.2	-13.39	2.85			10.09	1.35E-03
23-Oct-89	0.14	0.76	0.00	79.44	100.98	21.54	345.9	2909.9	-13.36	3.07			10.50	1.41E-03
24-Oct-89	0.15	0.76	0.00	79.44	100.94	21.50	345.1	2896.5	-13.33	3.28			10.26	1.38E-03
25-Oct-89	0.17	0.76	0.00	79.46	100.90	21.44	344.3	2883.2	-13.29	3.71			10.02	1.36E-03
26-Oct-89	0.20	0.76	0.00	79.44	100.86	21.42	343.5	2870.0	-13.26	4.35			9.56	1.30E-03
27-Oct-89	0.11	0.76	0.00	79.46	100.76	21.30	341.4	2836.7	-33.27	2.38			28.92	3.98E-03
28-Oct-89	0.14	0.76	0.00	79.44	100.67	21.23	339.4	2803.6	-33.07	3.01			30.69	4.26E-03
29-Oct-89	0.22	0.76	0.00	79.49	100.57	21.08	337.4	2770.8	-32.87	4.70			29.86	4.20E-03
30-Oct-89	0.20	0.76	0.00	79.50	100.47	20.97	335.3	2738.1	-32.67	4.25			27.97	3.98E-03
31-Oct-89	0.01	0.76	0.00	79.40	100.37	20.97	333.3	2705.6	-32.48	0.21			28.23	4.04E-03
01-Nov-89	0.08	0.71	0.00	79.34	100.28	20.94	331.3	2673.3	-32.28	1.57			32.07	4.62E-03
02-Nov-89	0.12	0.71	0.00	79.34	100.18	20.84	329.2	2641.3	-32.08	2.34			30.51	4.45E-03
03-Nov-89	0.16	0.71	0.00	79.30	100.20	20.90	329.7	2648.4	7.14	3.12			-9.48	
04-Nov-89	0.09	0.71	0.00	79.21	100.22	21.01	330.1	2655.6	7.15	1.76			-10.27	
05-Nov-89	0.12	0.71	0.00	79.17	100.25	21.08	330.6	2662.7	7.16	2.35			-8.92	
06-Nov-89	0.15	0.71	0.00	79.21	100.27	21.06	331.0	2669.9	7.17	2.94			-9.51	
07-Nov-89	0.12	0.71	0.00	79.23	100.29	21.06	331.5	2677.1	7.18	2.35			-10.12	
08-Nov-89	0.13	0.71	0.00	79.27	100.31	21.04	331.9	2684.2	7.19	2.55			-9.54	
09-Nov-89	0.13	0.71	1.02	79.31	100.33	21.02	332.4	2691.4	7.20	2.56	28.25	1.63	-9.75	
10-Nov-89	0.07	0.71	0.03	79.25	100.35	21.10	332.8	2698.6	7.21	1.38	0.83	0.05	20.12	2.86E-03
11-Nov-89	0.12	0.71	0.00	79.18	100.38	21.20	333.3	2705.9	7.22	2.37			-7.72	
12-Nov-89	0.13	0.71	0.00	79.16	100.40	21.24	333.8	2713.1	7.23	2.57			-9.59	
13-Nov-89	0.11	0.71	0.00	79.17	100.42	21.25	334.2	2720.3	7.24	2.18			-9.80	
14-Nov-89	0.14	0.71	0.00	79.22	100.44	21.22	334.7	2727.6	7.25	2.77			-9.42	
15-Nov-89	0.05	0.71	0.00	79.29	100.42	21.13	334.2	2720.0	-7.52	0.99			4.75	6.73E-04
16-Nov-89	0.08	0.71	0.09	79.32	100.40	21.08	333.7	2712.5	-7.51	1.58	2.50	0.14	6.53	9.28E-04
17-Nov-89	0.13	0.71	0.00	79.24	100.37	21.13	333.3	2705.0	-7.50	2.56			8.57	1.22E-03
18-Nov-89	0.10	0.71	0.00	79.11	100.35	21.24	332.8	2697.5	-7.49	1.97			4.93	6.97E-04
19-Nov-89	0.08	0.71	0.00	79.07	100.33	21.26	332.3	2690.1	-7.48	1.57			5.51	7.81E-04
20-Nov-89	0.08	0.71	0.00	79.16	100.31	21.15	331.8	2682.6	-7.47	1.57			5.90	8.41E-04
21-Nov-89	0.14	0.71	0.00	79.24	100.28	21.04	331.4	2675.1	-7.46	2.74			5.89	8.45E-04
22-Nov-89	0.09	0.71	0.00	79.23	100.26	21.03	330.9	2667.7	-7.45	1.76			4.71	6.76E-04
23-Nov-89	0.07	0.71	0.62	79.21	100.24	21.03	330.4	2660.2	-7.44	1.37	17.07	0.99	5.68	8.17E-04
24-Nov-89	0.09	0.71	0.00	79.07	100.22	21.15	330.0	2652.8	-7.43	1.76			24.12	3.46E-03
25-Nov-89	0.11	0.71	0.00	79.12	100.19	21.07	329.5	2645.4	-7.42	2.14			5.66	8.15E-04
26-Nov-89	0.07	0.71	0.05	79.19	100.17	20.98	329.0	2638.0	-7.41	1.36	1.37	0.08	5.26	7.63E-04
27-Nov-89	0.10	0.71	0.00	79.19	100.15	20.96	328.5	2630.6	-7.40	1.94			7.49	1.09E-03
28-Nov-89	0.04	0.71	0.00	79.18	100.13	20.95	328.1	2623.2	-7.39	0.78			5.44	7.92E-04
29-Nov-89	0.07	0.71	0.00	79.16	100.10	20.94	327.6	2615.8	-7.38	1.36			6.60	9.62E-04
30-Nov-89	0.21	0.71	0.00	79.03	100.08	21.05	327.1	2608.4	-7.37	4.06			6.01	8.73E-04
01-Dec-89	0.10	0.83	0.00	79.06	100.06	21.00	326.7	2601.1	-7.36	2.26			3.29	4.80E-04
02-Dec-89	0.11	0.83	0.00	79.07	100.04	20.97	326.2	2593.7	-7.34	2.48			5.09	7.44E-04
03-Dec-89	0.17	0.83	0.00	79.07	100.01	20.94	325.7	2586.4	-7.33	3.83			4.85	7.11E-04
04-Dec-89	0.13	0.83	0.00	79.02	99.99	20.97	325.2	2579.1	-7.32	2.92			3.49	5.12E-04
05-Dec-89	0.09	0.83	0.00	79.06	99.97	20.91	324.8	2571.8	-7.31	2.02			4.39	6.46E-04
06-Dec-89	0.11	0.83	0.00	79.08	99.95	20.87	324.3	2564.5	-7.30	2.47			5.28	7.80E-04
07-Dec-89	0.08	0.83	0.00	79.02	99.92	20.90	323.8	2557.2	-7.29	1.79			4.82	7.13E-04
08-Dec-89	0.11	0.83	0.00	79.14	99.90	20.76	323.4	2549.9	-7.28	2.46			5.49	8.18E-04
09-Dec-89	0.13	0.83	1.67	79.16	99.89	20.73	323.2	2547.1	-2.77	2.91	44.98	2.67	0.31	4.64E-05
10-Dec-89	0.15	0.83	0.02	79.01	99.88	20.87	323.0	2544.4	-2.77	3.35	0.54	0.03	47.51	7.05E-03
11-Dec-89	0.04	0.83	0.00	79.02	99.87	20.85	322.8	2541.6	-2.77	0.89			-0.01	
12-Dec-89	0.08	0.83	0.00	79.12	99.87	20.75	322.6	2538.8	-2.77	1.79			1.87	2.80E-04
13-Dec-89	0.15	0.83	0.27	79.05	99.86	20.81	322.5	2536.1	-2.76	3.35	7.26	0.43	0.98	1.46E-04
14-Dec-89	0.09	0.83	0.00	78.86	99.85	20.99	322.3	2533.3	-2.76	2.01			7.11	1.05E-03
15-Dec-89	0.09	0.83	0.00	78.95	99.84	20.89	322.1	2530.5	-2.76	2.01			0.76	1.12E-04
16-Dec-89	0.06	0.83	0.25	78.96	99.83	20.87	321.8	2525.7	-4.83	1.34	6.70	0.40	2.82	4.21E-04
17-Dec-89	0.09	0.83	0.01	78.88	99.81	20.93	321.5	2520.9	-4.82	2.00	0.27	0.02	10.59	1.57E-03

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 1920	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
18-Dec-89	0.05	0.83	0.05	78.90	99.80	20.90	321.2	2516.1	-4.82	1.11	1.34	0.08	3.10	4.62E-04	
19-Dec-89	0.01	0.83	0.43	78.95	99.78	20.83	320.8	2511.2	-4.82	0.22	11.50	0.69	5.12	7.67E-04	
20-Dec-89	0.01	0.83	0.64	78.93	99.77	20.84	320.6	2507.4	-3.85	0.22	17.10	1.02	15.81	2.37E-03	
21-Dec-89	0.04	0.83	0.00	78.90	99.76	20.86	320.3	2503.6	-3.85	0.89			21.75	3.25E-03	
22-Dec-89	0.07	0.83	0.00	78.82	99.74	20.92	320.1	2499.7	-3.84	1.55			2.96	4.41E-04	
23-Dec-89	0.05	0.83	0.36	78.70	99.73	21.03	319.8	2495.9	-3.84	1.11	9.60	0.58	2.29	3.40E-04	
24-Dec-89	0.05	0.83	0.27	78.59	99.72	21.13	319.6	2492.0	-3.84	1.11	7.19	0.43	12.90	1.91E-03	
25-Dec-89	0.05	0.83	0.05	78.51	99.71	21.20	319.3	2488.2	-3.83	1.10	1.33	0.08	10.35	1.53E-03	
26-Dec-89	0.08	0.83	0.00	78.51	99.70	21.19	319.1	2484.4	-3.83	1.77			4.14	6.12E-04	
27-Dec-89	0.08	0.83	0.00	78.59	99.68	21.09	318.8	2480.5	-3.83	1.76			2.06	3.07E-04	
28-Dec-89	0.10	0.83	0.00	78.67	99.67	21.00	318.6	2476.7	-3.82	2.20			2.06	3.08E-04	
29-Dec-89	0.07	0.83	0.00	78.71	99.66	20.95	318.3	2472.9	-3.82	1.54			1.62	2.43E-04	
30-Dec-89	0.07	0.83	0.00	78.74	99.65	20.91	318.1	2469.1	-3.82	1.54			2.28	3.42E-04	
31-Dec-89	0.11	0.83	0.00	78.81	99.64	20.83	317.8	2465.3	-3.82	2.42			2.28	3.44E-04	
01-Jan-90	0.15	0.77	0.25	78.77	99.62	20.85	317.6	2461.4	-3.81	3.06	6.62	0.40	1.39	2.11E-04	
02-Jan-90	0.16	0.77	0.00	78.65	99.61	20.96	317.3	2457.6	-3.81	3.26			7.77	1.17E-03	
03-Jan-90	0.12	0.77	0.00	78.72	99.60	20.88	317.1	2453.8	-3.81	2.44			0.55	8.29E-05	
04-Jan-90	0.10	0.77	0.00	78.75	99.59	20.84	317.0	2452.0	-1.81	2.03			-0.63		
05-Jan-90	0.05	0.77	0.00	78.79	99.59	20.80	316.8	2450.2	-1.81	1.02			-0.22		
06-Jan-90	0.05	0.77	0.00	78.83	99.58	20.75	316.7	2448.4	-1.81	1.02			0.79	1.21E-04	
07-Jan-90	0.03	0.77	0.57	78.87	99.58	20.71	316.6	2446.6	-1.81	0.61	15.04	0.91	0.79	1.21E-04	
08-Jan-90	0.07	0.77	0.46	78.86	99.57	20.71	316.5	2444.8	-1.81	1.42	12.13	0.74	17.15	2.62E-03	
09-Jan-90	0.15	0.77	0.00	78.72	99.57	20.85	316.4	2443.0	-1.81	3.04			13.25	2.01E-03	
10-Jan-90	0.06	0.77	0.00	78.75	99.56	20.81	316.2	2441.2	-1.81	1.22			-1.24		
11-Jan-90	0.09	0.77	0.00	78.76	99.53	20.77	315.6	2432.1	-9.03	1.82			7.81	1.19E-03	
12-Jan-90	0.10	0.77	0.00	78.81	99.50	20.69	315.0	2423.1	-9.01	2.02			7.19	1.10E-03	
13-Jan-90	0.23	0.77	0.00	78.62	99.47	20.85	314.4	2414.1	-8.99	4.64			6.97	1.06E-03	
14-Jan-90	0.13	0.77	0.00	78.56	99.45	20.89	313.8	2405.2	-8.98	2.62			4.34	6.61E-04	
15-Jan-90	0.10	0.77	0.00	78.59	99.42	20.83	313.2	2396.2	-8.96	2.01			6.34	9.72E-04	
16-Jan-90	0.13	0.77	0.00	78.59	99.39	20.80	312.6	2387.3	-8.94	2.61			6.93	1.07E-03	
17-Jan-90	0.13	0.77	0.00	78.63	99.36	20.73	312.0	2378.3	-8.92	2.60			6.32	9.76E-04	
18-Jan-90	0.11	0.77	0.00	78.66	99.35	20.69	311.9	2376.6	-1.78	2.20			-0.82		
19-Jan-90	0.10	0.77	0.00	78.69	99.35	20.66	311.8	2374.8	-1.78	2.00			-0.42		
20-Jan-90	0.13	0.77	0.00	78.68	99.34	20.66	311.7	2373.0	-1.78	2.60			-0.22		
21-Jan-90	0.15	0.77	0.00	78.70	99.34	20.64	311.6	2371.2	-1.78	3.00			-0.82		
22-Jan-90	0.08	0.77	0.00	78.69	99.33	20.64	311.5	2369.4	-1.78	1.60			-1.22		
23-Jan-90	0.15	0.77	0.00	78.65	99.33	20.68	311.3	2367.6	-1.78	3.00			0.18	2.81E-05	
24-Jan-90	0.13	0.77	0.00	78.67	99.32	20.65	311.2	2365.9	-1.78	2.60			-1.22		
25-Jan-90	0.12	0.77	0.00	78.71	99.18	20.47	308.3	2322.5	-43.37	2.37			40.77	6.46E-03	
26-Jan-90	0.20	0.77	0.21	78.60	99.17	20.57	308.1	2320.4	-2.05	3.95	5.39	0.34	-0.32		
27-Jan-90	0.15	0.77	0.00	78.44	99.17	20.73	308.0	2318.4	-2.05	2.96			3.83	6.00E-04	
28-Jan-90	0.13	0.77	0.00	78.60	99.16	20.56	307.9	2316.3	-2.05	2.57			-0.91		
29-Jan-90	0.12	0.77	0.00	78.77	99.15	20.38	307.7	2314.3	-2.05	2.37			-0.52		
30-Jan-90	0.11	0.77	0.00	78.73	99.15	20.42	307.6	2312.2	-2.05	2.17			-0.32		
31-Jan-90	0.09	0.77	0.39	78.70	99.14	20.44	307.4	2310.2	-2.05	1.78	9.99	0.62	-0.12		
01-Feb-90	0.12	0.69	0.00	78.62	99.11	20.49	306.8	2301.0	-9.21	2.12			18.05	2.87E-03	
02-Feb-90	0.09	0.69	0.00	78.61	99.08	20.47	306.2	2291.8	-9.20	1.58			7.08	1.13E-03	
03-Feb-90	0.13	0.69	0.00	78.61	99.05	20.44	305.6	2282.6	-9.18	2.28			7.59	1.22E-03	
04-Feb-90	0.16	0.69	0.00	78.64	99.02	20.38	304.9	2273.4	-9.16	2.81			6.87	1.11E-03	
05-Feb-90	0.20	0.69	0.00	78.59	98.99	20.40	304.3	2264.3	-9.14	3.50			6.33	1.02E-03	
06-Feb-90	0.22	0.69	0.00	78.48	98.96	20.48	303.7	2255.2	-9.12	3.84			5.62	9.04E-04	
07-Feb-90	0.10	0.69	0.00	78.51	99.00	20.49	304.5	2267.3	12.16	1.75			-16.01		
08-Feb-90	0.14	0.69	0.00	78.50	98.97	20.47	304.0	2259.5	-7.82	2.45			6.07	9.76E-04	
09-Feb-90	0.12	0.69	0.00	78.51	98.95	20.44	303.4	2251.7	-7.81	2.09			5.36	8.65E-04	
10-Feb-90	0.16	0.69	0.00	78.58	98.92	20.34	302.9	2243.9	-7.80	2.79			5.70	9.25E-04	
11-Feb-90	0.07	0.69	0.89	78.61	98.90	20.29	302.4	2236.1	-7.78	1.22	22.42	1.42	5.00	8.14E-04	
12-Feb-90	0.15	0.69	0.00	78.50	98.87	20.37	301.8	2228.4	-7.77	2.60			30.40	4.94E-03	
13-Feb-90	0.18	0.69	0.00	78.42	98.85	20.43	301.3	2220.6	-7.75	3.12			5.15	8.37E-04	
14-Feb-90	0.15	0.69	0.00	78.43	98.82	20.39	300.7	2212.9	-7.74	2.59			4.62	7.54E-04	
15-Feb-90	0.15	0.69	0.00	78.44	98.83	20.39	300.9	2215.5	2.58	2.60			-5.17		
16-Feb-90	0.17	0.69	0.00	78.48	98.84	20.36	301.1	2218.0	2.58	2.94			-5.18		
17-Feb-90	0.16	0.69	0.47	78.49	98.85	20.36	301.3	2220.6	2.58	2.77	11.80	0.75	-5.53		
18-Feb-90	0.17	0.69	0.13	78.49	98.85	20.36	301.5	2223.2	2.58	2.95	3.27	0.21	7.20	1.17E-03	
19-Feb-90	0.00	0.69	0.01	78.57	98.86	20.29	301.6	2225.8	2.58	0.00	0.25	0.02	-2.06		
20-Feb-90	0.16	0.69	0.15	78.58	98.87	20.29	301.8	2228.4	2.59	2.78	3.77	0.24	-2.32		
21-Feb-90	0.05	0.69	0.00	78.57	98.88	20.31	302.0	2231.0	2.59	0.87			-1.35		
22-Feb-90	0.02	0.69	0.00	78.64	98.88	20.24	302.1	2231.8	0.86	0.35			-1.73		
23-Feb-90	0.18	0.69	1.07	78.76	98.89	20.13	302.1	2232.7	0.86	3.13	26.94	1.71	-1.21		
24-Feb-90	0.14	0.69	0.14	78.69	98.89	20.20	302.2	2233.5	0.86	2.43	3.53	0.22	24.66	4.04E-03	
25-Feb-90	0.18	0.69	0.00	78.61	98.89	20.28	302.2	2234.4	0.86	3.13			0.45	7.40E-05	

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
26-Feb-90	0.21	0.69	0.00	78.56	98.89	20.33	302.3	2235.3	0.86	3.65			-3.99	
27-Feb-90	0.15	0.69	0.00	78.57	98.90	20.33	302.4	2236.1	0.86	2.61			-4.51	
28-Feb-90	0.16	0.69	0.00	78.65	98.90	20.25	302.4	2237.0	0.86	2.78			-3.47	
01-Mar-90	0.12	0.73	0.00	78.70	98.88	20.18	302.0	2231.0	-6.04	2.20			3.26	5.35E-04
02-Mar-90	0.18	0.73	0.00	78.81	98.86	20.05	301.6	2224.9	-6.04	3.30			3.83	6.34E-04
03-Mar-90	0.13	0.73	0.43	78.93	98.84	19.91	301.2	2218.9	-6.03	2.38	10.79	0.69	2.73	4.55E-04
04-Mar-90	0.18	0.73	0.00	78.87	98.82	19.95	300.7	2212.9	-6.02	3.29			15.12	2.52E-03
05-Mar-90	0.15	0.73	0.00	78.79	98.80	20.01	300.3	2206.9	-6.01	2.74			2.72	4.52E-04
06-Mar-90	0.18	0.73	0.00	78.75	98.78	20.03	299.9	2200.9	-6.00	3.28			3.26	5.43E-04
07-Mar-90	0.19	0.73	0.00	78.73	98.76	20.03	299.5	2194.9	-5.99	3.46			2.71	4.52E-04
08-Mar-90	0.16	0.73	0.04	78.69	98.73	20.04	298.9	2186.3	-8.55	2.91	1.00	0.06	5.09	8.49E-04
09-Mar-90	0.18	0.73	0.00	78.70	98.70	20.00	298.3	2177.8	-8.53	3.27			6.68	1.12E-03
10-Mar-90	0.17	0.73	0.00	78.68	98.67	19.99	297.7	2169.3	-8.51	3.08			5.25	8.82E-04
11-Mar-90	0.13	0.73	0.00	78.62	98.65	20.03	297.1	2160.8	-8.50	2.35			5.42	9.11E-04
12-Mar-90	0.22	0.73	0.00	78.62	98.62	20.00	296.5	2152.3	-8.48	3.97			6.13	1.03E-03
13-Mar-90	0.21	0.73	0.00	78.62	98.59	19.97	295.9	2143.8	-8.46	3.78			4.50	7.61E-04
14-Mar-90	0.23	0.73	0.00	78.62	98.56	19.94	295.3	2135.4	-8.45	4.13			4.67	7.92E-04
15-Mar-90	0.23	0.73	0.00	78.62	98.54	19.92	294.9	2130.3	-5.06	4.13			0.93	1.58E-04
16-Mar-90	0.19	0.73	0.00	78.62	98.53	19.91	294.6	2125.3	-5.05	3.40			0.93	1.58E-04
17-Mar-90	0.19	0.73	0.00	78.62	98.51	19.89	294.2	2120.2	-5.05	3.40			1.64	2.81E-04
18-Mar-90	0.14	0.73	0.58	78.61	98.49	19.88	293.9	2115.2	-5.04	2.50	14.20	0.93	1.64	2.81E-04
19-Mar-90	0.19	0.73	0.00	78.61	98.47	19.86	293.5	2110.1	-5.03	3.39			17.66	3.03E-03
20-Mar-90	0.20	0.73	0.00	78.59	98.46	19.87	293.1	2105.1	-5.03	3.57			1.64	2.81E-04
21-Mar-90	0.22	0.73	0.00	78.46	98.44	19.98	292.8	2100.1	-5.02	3.92			1.46	2.49E-04
22-Mar-90	0.18	0.73	0.00	78.37	98.40	20.03	291.9	2088.4	-11.70	3.20			7.78	1.33E-03
23-Mar-90	0.18	0.73	0.00	78.45	98.36	19.91	291.1	2076.7	-11.66	3.19			8.46	1.46E-03
24-Mar-90	0.19	0.73	0.00	78.45	98.33	19.88	290.5	2068.0	-8.72	3.36			5.54	9.59E-04
25-Mar-90	0.20	0.73	0.00	78.43	98.30	19.87	289.9	2059.3	-8.71	3.53			5.35	9.29E-04
26-Mar-90	0.19	0.73	0.00	78.40	98.27	19.87	289.2	2050.6	-8.69	3.34			5.16	8.98E-04
27-Mar-90	0.20	0.73	0.00	78.41	98.24	19.83	288.6	2042.0	-8.67	3.51			5.32	9.30E-04
28-Mar-90	0.18	0.73	0.00	78.38	98.21	19.83	288.0	2033.3	-8.65	3.15			5.14	9.00E-04
29-Mar-90	0.22	0.73	1.09	78.38	98.18	19.80	287.3	2024.7	-8.63	3.85	26.10	1.74	5.48	9.63E-04
30-Mar-90	0.18	0.73	0.00	78.38	98.18	19.80	287.3	2024.7	0.00	3.15			24.00	4.22E-03
31-Mar-90	0.24	0.73	1.48	78.46	98.18	19.72	287.3	2024.7	0.00	4.20	35.44	2.37	-3.15	
01-Apr-90	0.14	0.84	0.00	78.46	98.18	19.72	287.3	2024.7	0.00	2.82			33.61	5.93E-03
02-Apr-90	0.17	0.84	0.00	78.43	98.18	19.75	287.3	2024.7	0.00	3.42			-2.82	
03-Apr-90	0.21	0.84	2.11	78.53	98.18	19.65	287.3	2024.7	0.00	4.22	50.52	3.38	-3.42	
04-Apr-90	0.29	0.84	0.00	78.52	98.18	19.66	287.3	2024.7	0.00	5.83			49.68	8.79E-03
05-Apr-90	0.24	0.84	0.00	78.45	98.14	19.69	286.6	2014.0	-10.66	4.81			4.83	8.55E-04
06-Apr-90	0.21	0.84	0.00	78.45	98.11	19.66	285.8	2003.4	-10.63	4.20			5.82	1.04E-03
07-Apr-90	0.25	0.84	0.00	78.39	98.07	19.68	285.0	1992.8	-10.60	4.99			6.40	1.14E-03
08-Apr-90	0.21	0.84	0.00	78.24	98.03	19.79	284.2	1982.2	-10.57	4.18			5.58	9.93E-04
09-Apr-90	0.27	0.84	0.00	78.20	97.99	19.79	283.5	1971.7	-10.54	5.36			6.36	1.13E-03
10-Apr-90	0.21	0.84	0.00	78.22	97.96	19.74	282.7	1961.2	-10.51	4.16			5.16	9.24E-04
11-Apr-90	0.19	0.84	0.01	78.34	97.92	19.58	281.9	1950.7	-10.49	3.75	0.23	0.02	6.33	1.15E-03
12-Apr-90	0.21	0.84	0.00	78.29	97.89	19.60	281.3	1942.2	-8.45	4.13			4.95	8.98E-04
13-Apr-90	0.26	0.84	0.00	78.21	97.86	19.65	280.6	1933.8	-8.43	5.11			4.29	7.79E-04
14-Apr-90	0.25	0.84	0.00	78.18	97.83	19.65	280.0	1925.4	-8.41	4.90			3.30	6.00E-04
15-Apr-90	0.21	0.84	0.00	78.18	97.80	19.62	279.4	1917.0	-8.39	4.11			3.49	6.37E-04
16-Apr-90	0.16	0.84	0.00	78.18	97.77	19.59	278.8	1908.6	-8.37	3.12			4.27	7.81E-04
17-Apr-90	0.23	0.84	0.00	78.15	97.74	19.59	278.1	1900.3	-8.35	4.48			5.23	9.60E-04
18-Apr-90	0.23	0.84	0.00	78.06	97.71	19.65	277.5	1891.9	-8.33	4.47			3.86	7.07E-04
19-Apr-90	0.27	0.84	0.00	78.02	97.69	19.67	277.1	1886.0	-5.94	5.24			1.47	2.71E-04
20-Apr-90	0.18	0.84	0.00	77.99	97.67	19.68	276.6	1880.1	-5.93	3.49			0.70	1.28E-04
21-Apr-90	0.27	0.84	0.00	78.03	97.65	19.62	276.2	1874.1	-5.92	5.22			2.44	4.50E-04
22-Apr-90	0.16	0.84	0.00	78.10	97.62	19.52	275.7	1868.2	-5.91	3.09			0.69	1.29E-04
23-Apr-90	0.21	0.84	0.50	78.11	97.60	19.49	275.3	1862.3	-5.90	4.05	11.47	0.80	2.82	5.25E-04
24-Apr-90	0.12	0.84	0.12	78.12	97.58	19.46	274.8	1856.4	-5.89	2.31	2.75	0.19	14.12	2.64E-03
25-Apr-90	0.27	0.84	0.00	78.09	97.56	19.47	274.4	1850.5	-5.88	5.19			6.52	1.22E-03
26-Apr-90	0.27	0.84	0.00	78.06	97.55	19.49	274.1	1846.6	-3.92	5.18			-1.27	
27-Apr-90	0.28	0.84	0.00	78.03	97.53	19.50	273.8	1842.7	-3.91	5.37			-1.27	
28-Apr-90	0.31	0.84	0.00	78.07	97.52	19.45	273.5	1838.8	-3.91	5.93			-1.46	
29-Apr-90	0.17	0.84	0.93	78.11	97.50	19.39	273.2	1834.9	-3.90	3.25	21.17	1.49	-2.03	
30-Apr-90	0.23	0.84	0.00	78.04	97.49	19.45	272.9	1831.0	-3.90	4.39			23.31	4.39E-03
01-May-90	0.28	0.82	0.00	78.04	97.47	19.43	272.6	1827.1	-3.90	5.22			-0.50	
02-May-90	0.29	0.82	0.00	77.95	97.46	19.51	272.3	1823.2	-3.89	5.40			-1.32	
03-May-90	0.33	0.82	0.00	77.91	97.42	19.51	271.5	1813.1	-10.10	6.12			4.70	8.88E-04
04-May-90	0.27	0.82	0.00	77.86	97.39	19.53	270.7	1803.0	-10.07	4.99			3.95	7.47E-04
05-May-90	0.19	0.82	0.00	77.97	97.35	19.38	269.9	1793.0	-10.04	3.50			5.05	9.65E-04
06-May-90	0.30	0.82	0.00	77.93	97.31	19.38	269.2	1783.0	-10.01	5.52			6.51	1.25E-03

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
07-May-90	0.17	0.82	0.00	77.82	97.27	19.45	268.4	1773.0	-9.98	3.12			4.47	8.55E-04
08-May-90	0.32	0.82	0.00	77.76	97.24	19.48	267.6	1763.1	-9.95	5.85			6.84	1.31E-03
09-May-90	0.25	0.82	0.01	77.78	97.20	19.42	266.8	1753.1	-9.93	4.56		0.02	4.07	7.86E-04
10-May-90	0.10	0.82	0.53	77.91	97.19	19.28	266.6	1750.1	-3.05	1.82	11.77	0.85	-1.27	
11-May-90	0.31	0.82	0.00	77.79	97.18	19.39	266.3	1747.0	-3.05	5.64			13.85	2.68E-03
12-May-90	0.32	0.82	0.00	77.73	97.17	19.44	266.1	1744.0	-3.04	5.82			-2.60	
13-May-90	0.27	0.82	0.00	77.70	97.15	19.45	265.9	1740.9	-3.04	4.91			-2.78	
14-May-90	0.34	0.82	0.00	77.67	97.14	19.47	265.6	1737.9	-3.04	6.17			-1.87	
15-May-90	0.32	0.82	1.34	77.65	97.13	19.48	265.4	1734.9	-3.03	5.80	29.63	2.14	-3.14	
16-May-90	0.20	0.82	0.00	77.71	97.12	19.41	265.1	1731.8	-3.03	3.62			29.01	5.64E-03
17-May-90	0.32	0.82	0.00	77.71	97.10	19.39	264.7	1725.8	-6.06	5.79			2.43	4.74E-04
18-May-90	0.31	0.82	0.00	77.69	97.07	19.38	264.2	1719.7	-6.04	5.60			0.28	5.02E-05
19-May-90	0.31	0.82	0.00	77.66	97.05	19.39	263.7	1713.7	-6.03	5.59			0.44	8.55E-05
20-May-90	0.23	0.82	0.00	77.68	97.03	19.35	263.2	1707.7	-6.02	4.14			0.44	8.56E-05
21-May-90	0.33	0.82	0.00	77.65	97.01	19.36	262.8	1701.7	-6.01	5.93			1.87	3.69E-04
22-May-90	0.23	0.82	0.03	77.64	96.98	19.34	262.3	1695.7	-6.00	4.12	0.66	0.05	0.08	1.49E-05
23-May-90	0.16	0.82	0.00	77.64	96.96	19.32	261.8	1689.7	-5.99	2.86			2.57	5.08E-04
24-May-90	0.26	0.82	0.00	77.56	96.93	19.37	261.2	1681.8	-7.84	4.64			4.98	9.85E-04
25-May-90	0.30	0.82	0.00	77.46	96.90	19.44	260.5	1674.0	-7.83	5.34			3.19	6.29E-04
26-May-90	0.17	0.82	0.00	77.43	96.86	19.43	259.8	1664.7	-9.37	3.02			4.03	7.97E-04
27-May-90	0.29	0.82	0.00	77.46	96.83	19.37	259.0	1655.3	-9.34	5.13			6.32	1.26E-03
28-May-90	0.33	0.82	1.27	77.46	96.79	19.33	258.3	1646.0	-9.31	5.82	27.33	2.03	4.18	8.37E-04
29-May-90	0.27	0.82	0.00	77.37	96.76	19.39	257.5	1636.7	-9.28	4.75			32.83	6.58E-03
30-May-90	0.29	0.82	0.00	77.30	96.72	19.42	256.8	1627.5	-9.26	5.09			4.51	9.04E-04
31-May-90	0.33	0.82	0.00	77.23	96.70	19.47	256.4	1623.1	-4.40	5.78			-0.69	
01-Jun-90	0.28	0.85	0.00	77.16	96.69	19.53	256.1	1618.7	-4.39	5.08			-1.39	
02-Jun-90	0.32	0.85	0.00	77.10	96.67	19.57	255.7	1614.3	-4.39	5.80			-0.69	
03-Jun-90	0.27	0.85	0.15	77.22	96.65	19.43	255.3	1609.9	-4.38	4.88	3.19	0.24	-1.42	
04-Jun-90	0.28	0.85	0.00	77.26	96.63	19.37	255.0	1605.5	-4.37	5.06			2.92	5.92E-04
05-Jun-90	0.04	0.85	1.15	77.33	96.62	19.29	254.6	1601.2	-4.37	0.72	24.40	1.84	-0.69	
06-Jun-90	0.20	0.85	0.00	77.29	96.60	19.31	254.3	1596.8	-4.36	3.60			29.88	6.09E-03
07-Jun-90	0.25	0.85	0.26	77.35	96.60	19.25	254.3	1597.5	0.73	4.50	5.51	0.42	-4.33	
08-Jun-90	0.19	0.85	0.14	77.42	96.61	19.19	254.4	1598.2	0.73	3.42	2.97	0.22	0.70	1.43E-04
09-Jun-90	0.17	0.85	0.03	77.40	96.61	19.21	254.4	1599.0	0.73	3.06	0.84	0.05	-0.96	
10-Jun-90	0.19	0.85	0.00	77.38	96.61	19.23	254.5	1599.7	0.73	3.43			-3.11	
11-Jun-90	0.20	0.85	0.01	77.39	96.61	19.22	254.6	1600.4	0.73	3.61	0.21	0.02	-4.15	
12-Jun-90	0.32	0.85	0.00	77.37	96.62	19.25	254.6	1601.2	0.73	5.77			-4.11	
13-Jun-90	0.37	0.85	0.00	77.30	96.62	19.32	254.7	1601.9	0.73	6.67			-6.50	
14-Jun-90	0.30	0.85	0.00	77.26	96.58	19.32	253.9	1592.3	-9.54	5.40			2.86	5.83E-04
15-Jun-90	0.25	0.85	0.00	77.27	96.55	19.28	253.1	1582.8	-9.51	4.48			4.11	8.43E-04
16-Jun-90	0.27	0.85	0.00	77.21	96.51	19.30	252.3	1573.4	-9.48	4.83			5.00	1.03E-03
17-Jun-90	0.24	0.85	0.01	77.18	96.47	19.29	251.5	1563.9	-9.45	4.28	0.21	0.02	4.62	9.53E-04
18-Jun-90	0.25	0.85	0.45	77.15	96.43	19.28	250.7	1554.5	-9.42	4.44	9.40	0.72	5.37	1.11E-03
19-Jun-90	0.30	0.85	0.00	77.23	96.40	19.17	250.0	1545.1	-9.39	5.31			15.07	3.15E-03
20-Jun-90	0.30	0.85	0.00	77.10	96.36	19.26	249.2	1535.8	-9.36	5.30			4.05	8.44E-04
21-Jun-90	0.32	0.85	0.00	77.04	96.32	19.28	248.4	1526.4	-9.33	5.63			4.03	8.43E-04
22-Jun-90	0.31	0.85	0.01	77.08	96.35	19.27	249.0	1533.9	7.46	5.47	0.21	0.02	-13.09	
23-Jun-90	0.16	0.85	2.86	77.29	96.38	19.09	249.6	1541.4	7.48	2.83	59.50	4.58	-12.73	
24-Jun-90	0.13	0.85	0.64	77.43	96.41	18.98	250.3	1548.9	7.50	2.30	13.35	1.02	53.75	1.13E-02
25-Jun-90	0.15	0.85	0.00	77.39	96.44	19.05	250.9	1556.4	7.52	2.67			4.55	9.52E-04
26-Jun-90	0.26	0.85	0.00	77.34	96.47	19.13	251.5	1563.9	7.54	4.63			-10.20	
27-Jun-90	0.10	0.85	3.26	77.32	96.50	19.18	252.2	1571.5	7.56	1.79	68.50	5.22	-12.19	
28-Jun-90	0.16	0.85	0.00	77.29	96.51	19.22	252.4	1574.8	3.36	2.86			68.57	1.41E-02
29-Jun-90	0.22	0.85	0.00	77.27	96.53	19.26	252.7	1578.2	3.37	3.94			-6.23	
30-Jun-90	0.24	0.85	0.08	77.33	96.54	19.21	253.0	1581.6	3.37	4.30	1.69	0.13	-7.31	
01-Jul-90	0.27	0.91	0.00	77.45	96.55	19.10	253.3	1585.0	3.38	5.19			-5.86	
02-Jul-90	0.26	0.91	0.02	77.43	96.57	19.14	253.6	1588.3	3.38	5.00	0.42	0.03	-8.56	
03-Jul-90	0.19	0.91	0.68	77.41	96.58	19.17	253.8	1591.7	3.38	3.66	14.38	1.09	-7.93	
04-Jul-90	0.06	0.91	0.05	77.30	96.55	19.25	253.2	1583.5	-8.24	1.15	1.05	0.08	20.05	4.12E-03
05-Jul-90	0.18	0.91	0.00	77.28	96.52	19.24	252.5	1575.3	-8.22	3.45			8.20	1.69E-03
06-Jul-90	0.26	0.91	0.11	77.30	96.48	19.18	251.8	1567.1	-8.19	4.96	2.31	0.18	4.75	9.83E-04
07-Jul-90	0.32	0.91	0.00	77.21	96.45	19.24	251.1	1558.9	-8.17	6.09			5.69	1.18E-03
08-Jul-90	0.27	0.91	0.00	77.25	96.42	19.17	250.4	1550.7	-8.15	5.13			2.06	4.28E-04
09-Jul-90	0.30	0.91	0.00	77.16	96.39	19.22	249.8	1542.6	-8.13	5.68			3.00	6.25E-04
10-Jul-90	0.29	0.91	0.00	77.10	96.35	19.25	249.1	1534.5	-8.11	5.48			2.42	5.06E-04
11-Jul-90	0.28	0.91	0.05	77.08	96.32	19.24	248.4	1526.4	-8.08	5.27	1.03	0.08	2.61	5.45E-04
12-Jul-90	0.28	0.91	0.86	77.09	96.30	19.21	248.0	1522.2	-4.26	5.27	17.78	1.38	0.10	2.02E-05
13-Jul-90	0.32	0.91	1.13	77.23	96.29	19.06	247.7	1517.9	-4.25	6.01	23.32	1.81	18.13	3.84E-03
14-Jul-90	0.10	0.91	2.47	77.29	96.27	18.98	247.3	1513.7	-4.24	1.88	50.91	3.95	23.36	4.98E-03
15-Jul-90	0.05	0.91	2.63	77.35	96.25	18.90	247.0	1509.4	-4.24	0.94	54.12	4.21	57.22	1.23E-02

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
16-Jul-90	0.20	0.91	0.00	77.25	96.23	18.98	246.6	1505.2	-4.23	3.74			61.63	1.32E-02
17-Jul-90	0.21	0.91	0.18	77.24	96.22	18.98	246.2	1501.0	-4.22	3.92	3.69	0.29	0.48	1.04E-04
18-Jul-90	0.22	0.91	0.00	77.21	96.20	18.99	245.9	1496.8	-4.22	4.10			4.28	9.16E-04
19-Jul-90	0.18	0.91	0.01	77.27	96.23	18.96	246.5	1504.1	7.39	3.36	0.21	0.02	-11.49	
20-Jul-90	0.27	0.91	1.32	77.29	96.26	18.97	247.1	1511.6	7.41	5.06	27.19	2.11	-10.55	
21-Jul-90	0.22	0.91	0.53	77.33	96.26	18.93	247.1	1511.6	0.00	4.12	10.92	0.85	24.24	5.18E-03
22-Jul-90	0.24	0.91	0.25	77.37	96.26	18.89	247.1	1511.6	0.00	4.50	5.15	0.40	7.64	1.64E-03
23-Jul-90	0.24	0.91	0.00	77.38	96.26	18.88	247.1	1511.6	0.00	4.50			1.05	2.25E-04
24-Jul-90	0.32	0.91	0.00	77.35	96.26	18.91	247.1	1511.6	0.00	6.00			-4.50	
25-Jul-90	0.30	0.91	0.00	77.31	96.26	18.95	247.1	1511.6	0.00	5.62			-6.00	
26-Jul-90	0.27	0.91	0.00	77.26	96.24	18.98	246.7	1505.9	-5.64	5.05			0.02	4.55E-06
27-Jul-90	0.31	0.91	0.00	77.26	96.21	18.95	246.2	1500.3	-5.63	5.79			0.58	1.25E-04
28-Jul-90	0.32	0.91	0.07	77.34	96.19	18.85	245.7	1494.7	-5.62	5.96	1.43	0.11	-0.17	
29-Jul-90	0.12	0.91	0.00	77.43	96.17	18.74	245.2	1489.0	-5.61	2.23			1.19	2.60E-04
30-Jul-90	0.27	0.91	0.00	77.33	96.15	18.82	244.7	1483.4	-5.60	5.01			3.37	7.31E-04
31-Jul-90	0.28	0.91	0.00	77.28	96.12	18.84	244.3	1477.9	-5.59	5.19			0.58	1.26E-04
01-Aug-90	0.28	0.91	0.00	77.17	96.10	18.93	243.8	1472.3	-5.58	5.18			0.39	8.48E-05
02-Aug-90	0.29	0.91	0.00	77.14	96.08	18.94	243.4	1467.4	-4.87	5.35			-0.30	
03-Aug-90	0.21	0.91	0.05	77.15	96.06	18.91	242.9	1462.5	-4.86	3.87	1.01	0.08	-0.49	
04-Aug-90	0.16	0.91	0.36	77.10	96.04	18.94	242.5	1457.7	-4.86	2.94	7.28	0.58	2.08	4.52E-04
05-Aug-90	0.24	0.91	0.00	77.09	96.02	18.93	242.1	1452.8	-4.85	4.41			9.76	2.13E-03
06-Aug-90	0.31	0.91	0.00	77.02	95.98	18.96	241.3	1443.2	-9.67	5.67			5.26	1.15E-03
07-Aug-90	0.27	0.91	0.00	77.07	95.94	18.87	240.4	1433.5	-9.63	4.92			3.96	8.73E-04
08-Aug-90	0.15	0.91	2.35	77.07	95.90	18.83	239.6	1423.9	-9.60	2.73	46.92	3.76	4.68	1.04E-03
09-Aug-90	0.10	0.91	0.11	77.08	95.87	18.79	239.0	1417.0	-6.98	1.81	2.19	0.18	54.94	1.22E-02
10-Aug-90	0.06	0.91	0.09	77.08	95.84	18.76	238.4	1410.0	-6.96	1.08	1.79	0.14	7.52	1.68E-03
11-Aug-90	0.16	0.91	0.21	77.07	95.81	18.74	237.8	1403.1	-6.94	2.88	4.16	0.34	7.79	1.75E-03
12-Aug-90	0.17	0.91	0.03	77.06	95.78	18.72	237.2	1396.1	-6.93	3.06	0.59	0.05	8.54	1.92E-03
13-Aug-90	0.23	0.91	0.00	77.01	95.75	18.74	236.5	1389.2	-6.91	4.13			4.49	1.01E-03
14-Aug-90	0.20	0.91	0.67	76.99	95.73	18.74	235.9	1382.3	-6.89	3.58	13.17	1.07	2.76	6.26E-04
15-Aug-90	0.14	0.91	0.14	76.95	95.70	18.75	235.3	1375.5	-6.87	2.50	2.75	0.22	17.54	3.98E-03
16-Aug-90	0.18	0.91	0.01	76.96	95.67	18.71	234.7	1368.6	-6.86	3.20	0.20	0.02	7.33	1.67E-03
17-Aug-90	0.22	0.91	0.00	77.03	95.64	18.61	234.1	1361.8	-6.84	3.91			3.85	8.83E-04
18-Aug-90	0.26	0.91	0.50	77.09	95.61	18.52	233.5	1354.9	-6.82	4.60	9.73	0.80	2.91	6.74E-04
19-Aug-90	0.25	0.91	0.00	77.00	95.58	18.58	232.9	1348.1	-6.80	4.42			12.73	2.94E-03
20-Aug-90	0.28	0.91	0.00	76.96	95.55	18.59	232.3	1341.4	-6.78	4.93			2.37	5.49E-04
21-Aug-90	0.27	0.91	1.52	76.93	95.47	18.53	230.5	1321.7	-19.67	4.72	29.20	2.43	14.74	3.45E-03
22-Aug-90	0.26	0.91	0.05	76.94	95.38	18.44	228.7	1302.2	-19.52	4.51	0.95	0.08	46.43	1.10E-02
23-Aug-90	0.14	0.91	0.23	76.92	95.36	18.44	228.2	1297.1	-5.04	2.42	4.37	0.37	1.57	3.72E-04
24-Aug-90	0.10	0.91	0.00	76.87	95.34	18.47	227.8	1292.1	-5.03	1.73			7.35	1.75E-03
25-Aug-90	0.23	0.91	0.00	76.90	95.31	18.41	227.3	1287.1	-5.02	3.96			3.29	7.87E-04
26-Aug-90	0.19	0.91	0.00	76.95	95.29	18.34	226.9	1282.1	-5.01	3.27			1.05	2.52E-04
27-Aug-90	0.22	0.91	0.00	76.95	95.27	18.32	226.4	1277.1	-5.00	3.78			1.73	4.18E-04
28-Aug-90	0.34	0.91	1.35	76.95	95.25	18.30	225.9	1272.1	-4.99	5.83	25.42	2.16	1.21	2.94E-04
29-Aug-90	0.21	0.91	0.00	76.89	95.23	18.34	225.5	1267.1	-4.98	3.59			26.73	6.47E-03
30-Aug-90	0.26	0.91	0.00	76.82	95.20	18.38	225.0	1262.1	-4.97	4.44			1.38	3.34E-04
31-Aug-90	0.21	0.91	0.43	76.81	95.18	18.37	224.6	1257.2	-4.96	3.58	8.05	0.69	0.52	1.27E-04
01-Sep-90	0.13	0.85	0.00	76.81	95.16	18.35	224.1	1252.2	-4.95	2.06			10.11	2.46E-03
02-Sep-90	0.25	0.85	0.29	76.80	95.14	18.34	223.6	1247.3	-4.94	3.96	5.40	0.46	2.88	7.02E-04
03-Sep-90	0.17	0.85	0.11	76.79	95.12	18.32	223.2	1242.3	-4.93	2.69	2.05	0.18	6.84	1.67E-03
04-Sep-90	0.24	0.85	0.00	76.79	95.09	18.31	222.7	1237.4	-4.92	3.79			4.45	1.09E-03
05-Sep-90	0.18	0.85	0.00	76.78	95.07	18.29	222.2	1232.5	-4.91	2.83			1.12	2.76E-04
06-Sep-90	0.18	0.85	0.18	76.77	95.05	18.28	221.8	1227.6	-4.90	2.83	3.33	0.29	2.07	5.10E-04
07-Sep-90	0.21	0.85	0.00	76.77	95.03	18.26	221.3	1222.7	-4.89	3.29			5.68	1.40E-03
08-Sep-90	0.20	0.85	0.00	76.76	95.00	18.25	220.9	1217.8	-4.88	3.13			1.59	3.94E-04
09-Sep-90	0.23	0.85	0.00	76.75	94.98	18.23	220.4	1213.0	-4.87	3.59			1.74	4.33E-04
10-Sep-90	0.19	0.85	0.00	76.74	94.96	18.22	219.9	1208.1	-4.86	2.96			1.27	3.17E-04
11-Sep-90	0.15	0.85	0.00	76.74	94.94	18.20	219.5	1203.3	-4.85	2.33			1.89	4.73E-04
12-Sep-90	0.23	0.85	0.16	76.73	94.92	18.19	219.0	1198.4	-4.84	3.57	2.92	0.26	2.51	6.29E-04
13-Sep-90	0.26	0.85	0.00	76.72	94.89	18.17	218.5	1193.6	-4.83	4.02			4.44	1.12E-03
14-Sep-90	0.27	0.85	0.00	76.72	94.87	18.16	218.1	1188.8	-4.82	4.17			0.79	2.00E-04
15-Sep-90	0.21	0.85	0.00	76.71	94.85	18.14	217.6	1184.0	-4.81	3.24			0.64	1.61E-04
16-Sep-90	0.12	0.85	0.36	76.70	94.83	18.13	217.2	1179.2	-4.80	1.85	6.51	0.58	1.56	3.97E-04
17-Sep-90	0.20	0.85	0.22	76.70	94.81	18.11	216.7	1174.4	-4.79	3.07	3.97	0.35	10.03	2.56E-03
18-Sep-90	0.25	0.85	0.00	76.69	94.78	18.09	216.2	1169.6	-4.78	3.83			6.03	1.54E-03
19-Sep-90	0.26	0.85	0.00	76.68	94.76	18.08	215.8	1164.8	-4.77	3.97			0.94	2.40E-04
20-Sep-90	0.23	0.85	0.00	76.68	94.74	18.06	215.3	1160.1	-4.76	3.51			0.78	2.01E-04
21-Sep-90	0.23	0.85	0.00	76.67	94.70	18.03	214.5	1151.5	-8.60	3.49			5.09	1.32E-03
22-Sep-90	0.24	0.85	0.00	76.66	94.66	18.00	213.6	1142.9	-8.56	3.63			5.07	1.32E-03
23-Sep-90	0.26	0.85	0.00	76.66	94.62	17.96	212.8	1134.4	-8.53	3.92			4.90	1.28E-03

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
24-Sep-90	0.31	0.85	0.00	76.65	94.58	17.93	212.0	1125.9	-8.50	4.65			4.58	1.20E-03
25-Sep-90	0.23	0.85	0.00	76.64	94.54	17.90	211.1	1117.4	-8.46	3.44			3.81	1.01E-03
26-Sep-90	0.21	0.85	0.00	76.63	94.50	17.87	210.3	1109.0	-8.43	3.13			4.99	1.33E-03
27-Sep-90	0.17	0.85	0.00	76.63	94.46	17.83	209.4	1100.6	-8.40	2.52			5.27	1.41E-03
28-Sep-90	0.22	0.85	0.00	76.62	94.46	17.84	209.4	1099.8	-0.76	3.26			-1.76	
29-Sep-90	0.13	0.85	0.68	76.61	94.45	17.84	209.3	1099.1	-0.76	1.93	11.86	1.09	-2.50	
30-Sep-90	0.06	0.85	0.14	76.61	94.45	17.84	209.2	1098.3	-0.76	0.89	2.44	0.22	-1.78	3.16E-03
01-Oct-90	0.10	0.76	0.00	76.60	94.45	17.85	209.1	1097.6	-0.76	1.32			2.54	6.80E-04
02-Oct-90	0.21	0.76	0.00	76.59	94.44	17.85	209.1	1096.8	-0.76	2.78			-0.56	
03-Oct-90	0.24	0.76	0.00	76.59	94.44	17.85	209.0	1096.0	-0.76	3.18			-2.02	
04-Oct-90	0.20	0.76	0.00	76.58	94.43	17.86	208.9	1095.3	-0.76	2.65			-2.42	
05-Oct-90	0.16	0.76	0.00	76.57	94.43	17.86	208.8	1094.5	-0.76	2.12			-1.89	
06-Oct-90	0.15	0.76	0.08	76.57	94.43	17.86	208.8	1093.8	-0.76	1.98	1.39	0.13	-1.36	
07-Oct-90	0.18	0.76	0.00	76.56	94.42	17.86	208.7	1093.0	-0.76	2.38			0.30	7.93E-05
08-Oct-90	0.22	0.76	0.00	76.55	94.42	17.87	208.6	1092.2	-0.76	2.91			-1.62	
09-Oct-90	0.21	0.76	0.00	76.55	94.42	17.87	208.5	1091.5	-0.76	2.77			-2.15	
10-Oct-90	0.24	0.76	0.58	76.54	94.41	17.87	208.5	1090.7	-0.76	3.17	10.08	0.93	-2.02	
11-Oct-90	0.18	0.76	1.68	76.53	94.41	17.88	208.4	1090.0	-0.76	2.38	29.17	2.69	8.59	2.31E-03
12-Oct-90	0.05	0.76	0.74	76.52	94.41	17.88	208.3	1089.2	-0.76	0.66	12.85	1.18	30.24	8.12E-03
13-Oct-90	0.13	0.76	0.00	76.52	94.40	17.88	208.2	1088.5	-0.76	1.71			14.13	3.79E-03
14-Oct-90	0.18	0.76	0.00	76.51	94.40	17.89	208.2	1087.7	-0.76	2.37			-0.96	
15-Oct-90	0.19	0.76	0.00	76.50	94.39	17.89	208.1	1086.9	-0.76	2.50			-1.62	
16-Oct-90	0.19	0.76	0.00	76.50	94.39	17.89	208.0	1086.2	-0.76	2.50			-1.75	
17-Oct-90	0.16	0.76	0.00	76.49	94.39	17.90	207.9	1085.4	-0.76	2.11			-1.75	
18-Oct-90	0.18	0.76	0.00	76.48	94.38	17.90	207.8	1084.7	-0.76	2.37			-1.35	
19-Oct-90	0.09	0.76	0.12	76.48	94.38	17.90	207.8	1083.9	-0.76	1.18	2.08	0.19	-1.61	
20-Oct-90	0.16	0.76	0.00	76.47	94.37	17.90	207.5	1081.1	-2.80	2.10			3.88	1.05E-03
21-Oct-90	0.13	0.76	0.00	76.46	94.35	17.89	207.2	1078.3	-2.79	1.71			0.69	1.86E-04
22-Oct-90	0.28	0.76	0.00	76.46	94.34	17.88	206.9	1075.5	-2.79	3.67			1.08	2.93E-04
23-Oct-90	0.05	0.76	0.31	76.45	94.33	17.88	206.6	1072.8	-2.79	0.65	5.34	0.50	-0.88	
24-Oct-90	0.15	0.76	0.00	76.44	94.31	17.87	206.4	1070.0	-2.78	1.96			7.96	2.16E-03
25-Oct-90	0.11	0.76	0.00	76.44	94.30	17.86	206.1	1067.2	-2.78	1.44			0.82	2.22E-04
26-Oct-90	0.09	0.76	0.00	76.43	94.29	17.86	205.8	1064.4	-2.77	1.17			1.34	3.64E-04
27-Oct-90	0.11	0.76	0.00	76.42	94.27	17.85	205.5	1061.6	-2.77	1.43			1.60	4.35E-04
28-Oct-90	0.12	0.76	0.00	76.41	94.26	17.84	205.2	1058.9	-2.77	1.56			1.33	3.64E-04
29-Oct-90	0.11	0.76	0.00	76.41	94.25	17.84	205.0	1056.1	-2.76	1.43			1.20	3.29E-04
30-Oct-90	0.12	0.76	0.00	76.40	94.23	17.83	204.7	1053.4	-2.76	1.56			1.33	3.65E-04
31-Oct-90	0.11	0.76	0.00	76.39	94.22	17.82	204.4	1050.6	-2.76	1.42			1.20	3.29E-04
01-Nov-90	0.10	0.71	0.00	76.39	94.20	17.82	204.1	1047.9	-2.75	1.21			1.33	3.65E-04
02-Nov-90	0.15	0.71	0.00	76.38	94.19	17.81	203.8	1045.1	-2.75	1.81			1.54	4.24E-04
03-Nov-90	0.15	0.71	0.00	76.37	94.18	17.81	203.5	1042.4	-2.74	1.81			0.93	2.58E-04
04-Nov-90	0.13	0.71	0.00	76.36	94.16	17.80	203.3	1039.6	-2.74	1.56			0.93	2.58E-04
05-Nov-90	0.12	0.71	0.00	76.35	94.15	17.80	203.0	1036.9	-2.74	1.44			1.17	3.25E-04
06-Nov-90	0.15	0.71	0.00	76.34	94.14	17.80	202.7	1034.2	-2.73	1.80			1.29	3.58E-04
07-Nov-90	0.13	0.71	0.00	76.35	94.12	17.77	202.4	1031.4	-2.73	1.56			0.93	2.58E-04
08-Nov-90	0.12	0.71	0.00	76.34	94.11	17.77	202.1	1028.7	-2.72	1.44			1.17	3.25E-04
09-Nov-90	0.12	0.71	0.00	76.39	94.10	17.71	201.8	1026.0	-2.72	1.43			1.29	3.60E-04
10-Nov-90	0.12	0.71	0.77	76.39	94.08	17.69	201.6	1023.3	-2.72	1.43	12.93	1.23	1.28	3.60E-04
11-Nov-90	0.14	0.71	0.00	76.20	94.07	17.87	201.3	1020.6	-2.71	1.67			15.45	4.29E-03
12-Nov-90	0.13	0.71	0.00	76.17	94.06	17.89	201.0	1017.8	-2.71	1.55			1.04	2.90E-04
13-Nov-90	0.11	0.71	0.00	76.14	94.04	17.90	200.7	1015.1	-2.71	1.31			1.16	3.23E-04
14-Nov-90	0.13	0.71	0.00	76.05	94.03	17.98	200.4	1012.4	-2.70	1.54			1.40	3.87E-04
15-Nov-90	0.15	0.71	0.00	76.09	94.02	17.93	200.2	1009.7	-2.70	1.78			1.16	3.22E-04
16-Nov-90	0.12	0.71	0.00	76.15	94.00	17.85	199.9	1007.0	-2.69	1.42			0.92	2.57E-04
17-Nov-90	0.10	0.71	0.00	76.22	93.99	17.77	199.6	1004.4	-2.69	1.18			1.27	3.58E-04
18-Nov-90	0.16	0.71	0.00	76.16	93.98	17.82	199.3	1001.7	-2.69	1.89			1.51	4.24E-04
19-Nov-90	0.13	0.71	0.00	76.13	93.96	17.83	199.0	999.0	-2.68	1.53			0.80	2.24E-04
20-Nov-90	0.09	0.71	0.00	76.09	93.95	17.86	198.7	996.3	-2.68	1.06			1.15	3.23E-04
21-Nov-90	0.09	0.71	0.00	76.08	93.94	17.86	198.5	993.6	-2.68	1.06			1.62	4.56E-04
22-Nov-90	0.10	0.71	0.00	76.10	93.92	17.82	198.2	991.0	-2.67	1.17			1.61	4.57E-04
23-Nov-90	0.10	0.71	0.00	76.16	93.91	17.75	197.9	988.3	-2.67	1.17			1.50	4.26E-04
24-Nov-90	0.05	0.71	0.14	76.10	93.90	17.80	197.6	985.6	-2.66	0.58	2.31	0.22	1.49	4.25E-04
25-Nov-90	0.10	0.71	0.00	76.04	93.88	17.84	197.3	983.0	-2.66	1.17			4.60	1.31E-03
26-Nov-90	0.10	0.71	0.00	76.02	93.87	17.85	197.1	980.3	-2.66	1.17			1.49	4.23E-04
27-Nov-90	0.08	0.71	0.00	76.02	93.85	17.83	196.8	977.7	-2.65	0.93			1.49	4.24E-04
28-Nov-90	0.06	0.71	0.16	76.03	93.84	17.81	196.5	975.0	-2.65	0.70	2.62	0.26	1.72	4.91E-04
29-Nov-90	0.07	0.71	0.00	76.01	93.83	17.82	196.2	972.4	-2.64	0.81			4.82	1.38E-03
30-Nov-90	0.19	0.71	0.00	75.91	93.81	17.90	195.9	969.7	-2.64	2.20			1.83	5.21E-04
01-Dec-90	0.13	0.83	0.00	75.87	93.80	17.93	195.6	967.1	-2.64	1.76			0.43	1.24E-04
02-Dec-90	0.08	0.83	0.00	75.89	93.79	17.90	195.4	964.5	-2.63	1.08			0.87	2.50E-04

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
03-Dec-90	0.11	0.83	0.00	75.99	93.77	17.78	195.1	961.8	-2.63	1.48			1.55	4.46E-04
04-Dec-90	0.12	0.83	0.28	76.00	93.76	17.76	194.8	959.2	-2.63	1.62	4.55	0.45	1.14	3.30E-04
05-Dec-90	0.09	0.83	0.00	75.93	93.75	17.82	194.5	956.6	-2.62	1.21			6.00	1.73E-03
06-Dec-90	0.09	0.83	0.00	76.02	93.73	17.71	194.2	954.0	-2.62	1.21			1.41	4.09E-04
07-Dec-90	0.04	0.83	0.00	76.10	93.72	17.62	194.0	951.3	-2.61	0.54			1.41	4.11E-04
08-Dec-90	0.05	0.83	1.04	76.04	93.71	17.67	193.7	949.1	-2.29	0.67	16.79	1.66	1.75	5.11E-04
09-Dec-90	0.04	0.83	0.00	75.90	93.70	17.80	193.5	946.8	-2.28	0.54			20.07	5.83E-03
10-Dec-90	0.12	0.83	0.00	75.89	93.68	17.79	193.2	944.5	-2.28	1.60			1.75	5.08E-04
11-Dec-90	0.12	0.83	0.00	75.93	93.67	17.74	193.0	942.2	-2.28	1.60			0.67	1.97E-04
12-Dec-90	0.08	0.83	0.00	75.90	93.66	17.76	192.7	939.9	-2.27	1.07			0.67	1.97E-04
13-Dec-90	0.04	0.83	0.00	75.91	93.65	17.74	192.5	937.7	-2.27	0.53			1.21	3.53E-04
14-Dec-90	0.08	0.83	0.00	75.87	93.64	17.77	192.2	935.4	-2.27	1.06			1.74	5.08E-04
15-Dec-90	0.05	0.83	0.00	75.90	93.63	17.73	192.0	933.1	-2.27	0.66			1.20	3.53E-04
16-Dec-90	0.04	0.83	0.00	75.97	93.61	17.64	191.7	930.9	-2.26	0.53			1.60	4.73E-04
17-Dec-90	0.08	0.83	0.00	76.00	93.60	17.60	191.5	928.6	-2.26	1.06			1.73	5.13E-04
18-Dec-90	0.08	0.83	0.00	76.05	93.59	17.54	191.2	926.4	-2.26	1.06			1.20	3.57E-04
19-Dec-90	0.08	0.83	0.00	75.96	93.58	17.62	191.0	924.1	-2.25	1.06			1.20	3.55E-04
20-Dec-90	0.06	0.83	0.00	75.84	93.57	17.73	190.7	921.8	-2.25	0.79			1.19	3.53E-04
21-Dec-90	0.09	0.83	0.00	75.81	93.55	17.74	190.5	919.6	-2.25	1.19			1.46	4.31E-04
22-Dec-90	0.09	0.83	0.00	75.87	93.54	17.67	190.2	917.4	-2.25	1.18			1.06	3.15E-04
23-Dec-90	0.10	0.83	0.00	75.91	93.53	17.62	190.0	915.1	-2.24	1.31			1.06	3.16E-04
24-Dec-90	0.11	0.83	0.07	75.93	93.52	17.59	189.8	912.9	-2.24	1.44	1.11	0.11	0.93	2.77E-04
25-Dec-90	0.16	0.83	0.00	75.86	93.51	17.65	189.5	910.6	-2.24	2.10			2.01	6.02E-04
26-Dec-90	0.06	0.83	0.00	75.83	93.50	17.67	189.3	908.4	-2.23	0.79			0.14	4.09E-05
27-Dec-90	0.10	0.83	0.00	75.81	93.48	17.67	189.0	906.2	-2.23	1.31			1.45	4.33E-04
28-Dec-90	0.08	0.83	0.00	75.83	93.47	17.64	188.8	903.9	-2.23	1.04			0.92	2.76E-04
29-Dec-90	0.02	0.83	0.00	75.86	93.46	17.60	188.5	901.7	-2.23	0.26			1.18	3.56E-04
30-Dec-90	0.07	0.83	0.00	75.91	93.45	17.54	188.3	899.5	-2.22	0.91			1.96	5.94E-04
31-Dec-90	0.07	0.83	0.00	75.90	93.44	17.54	188.0	897.3	-2.22	0.91			1.31	3.97E-04
01-Jan-91	0.04	0.77	0.00	75.91	93.43	17.52	187.8	895.1	-2.22	0.48			1.31	3.97E-04
02-Jan-91	0.01	0.77	0.00	75.91	93.41	17.50	187.5	892.8	-2.21	0.12			1.73	5.28E-04
03-Jan-91	0.06	0.77	0.00	75.88	93.40	17.52	187.3	890.6	-2.21	0.72			2.09	6.37E-04
04-Jan-91	0.06	0.77	0.00	75.84	93.39	17.55	187.0	888.4	-2.21	0.72			1.49	4.53E-04
05-Jan-91	0.05	0.77	0.00	75.80	93.38	17.58	186.8	886.2	-2.20	0.60			1.48	4.52E-04
06-Jan-91	0.04	0.77	0.00	75.80	93.37	17.57	186.5	884.0	-2.20	0.48			1.60	4.89E-04
07-Jan-91	0.05	0.77	0.00	75.84	93.35	17.51	186.3	881.8	-2.20	0.60			1.72	5.27E-04
08-Jan-91	0.06	0.77	0.00	75.81	93.34	17.53	186.0	879.6	-2.20	0.72			1.60	4.90E-04
09-Jan-91	0.06	0.77	0.00	75.70	93.33	17.63	185.8	877.4	-2.19	0.72			1.48	4.51E-04
10-Jan-91	0.12	0.77	0.00	75.74	93.32	17.58	185.6	875.2	-2.19	1.43			1.47	4.52E-04
11-Jan-91	0.07	0.77	0.13	75.88	93.31	17.43	185.3	873.1	-2.19	0.83	2.01	0.21	0.76	2.35E-04
12-Jan-91	0.16	0.77	2.07	76.01	93.30	17.29	185.1	870.9	-2.18	1.90	31.92	3.31	3.57	1.12E-03
13-Jan-91	0.21	0.77	0.00	75.90	93.28	17.38	184.8	868.7	-2.18	2.49			35.52	1.11E-02
14-Jan-91	0.10	0.77	0.00	75.84	93.27	17.43	184.6	866.5	-2.18	1.18			-0.31	
15-Jan-91	0.09	0.77	0.00	75.89	93.26	17.37	184.3	864.3	-2.18	1.06			0.99	3.10E-04
16-Jan-91	0.02	0.77	0.17	75.89	93.23	17.34	183.7	858.8	-5.52	0.24	2.60	0.27	4.46	1.40E-03
17-Jan-91	0.10	0.77	0.10	75.75	93.20	17.45	183.1	853.3	-5.50	1.17	1.53	0.16	8.14	2.55E-03
18-Jan-91	0.09	0.77	0.00	75.69	93.17	17.48	182.4	847.8	-5.48	1.05			5.99	1.88E-03
19-Jan-91	0.08	0.77	0.11	75.79	93.14	17.35	181.8	842.4	-5.46	0.93	1.67	0.18	4.41	1.40E-03
20-Jan-91	0.15	0.77	1.26	75.85	93.11	17.26	181.2	836.9	-5.45	1.74	19.02	2.02	6.35	2.03E-03
21-Jan-91	0.13	0.77	0.00	75.76	93.08	17.32	180.5	831.5	-5.43	1.51			24.72	7.91E-03
22-Jan-91	0.07	0.77	0.00	75.70	93.05	17.35	179.9	826.1	-5.41	0.81			3.90	1.25E-03
23-Jan-91	0.15	0.77	0.00	75.64	93.02	17.38	179.3	820.7	-5.39	1.73			4.58	1.47E-03
24-Jan-91	0.06	0.77	0.00	75.75	93.06	17.31	180.1	827.4	6.67	0.69			-8.40	
25-Jan-91	0.10	0.77	1.12	75.73	93.09	17.36	180.8	834.1	6.70	1.16	16.88	1.79	-7.40	
26-Jan-91	0.05	0.77	0.06	75.69	93.13	17.44	181.6	840.8	6.73	0.58	0.91	0.10	10.78	3.40E-03
27-Jan-91	0.05	0.77	0.00	75.74	93.17	17.43	182.4	847.6	6.76	0.59			-6.34	
28-Jan-91	0.06	0.77	0.80	75.83	93.21	17.38	183.2	854.4	6.79	0.71	12.21	1.28	-7.38	
29-Jan-91	0.02	0.77	0.05	75.82	93.24	17.42	184.0	861.2	6.82	0.24	0.77	0.08	5.97	1.86E-03
30-Jan-91	0.02	0.77	0.40	75.85	93.28	17.43	184.7	868.0	6.85	0.24	6.16	0.64	-6.24	
31-Jan-91	0.15	0.77	0.52	75.80	93.28	17.48	184.7	867.4	-0.62	1.78	8.00	0.83	7.18	2.22E-03
01-Feb-91	0.08	0.69	0.05	75.69	93.27	17.58	184.6	866.8	-0.62	0.85	0.77	0.08	7.67	2.36E-03
02-Feb-91	0.11	0.69	0.15	75.70	93.27	17.57	184.5	866.2	-0.62	1.17	2.31	0.24	0.62	1.90E-04
03-Feb-91	0.02	0.69	0.01	75.77	93.27	17.50	184.5	865.6	-0.62	0.21	0.15	0.02	1.99	6.18E-04
04-Feb-91	0.14	0.69	0.00	75.78	93.26	17.48	184.4	864.9	-0.61	1.48			0.57	1.78E-04
05-Feb-91	0.15	0.69	0.00	75.85	93.26	17.41	184.3	864.3	-0.61	1.59			-0.87	
06-Feb-91	0.12	0.69	0.00	75.87	93.25	17.38	184.1	862.5	-1.84	1.27			0.25	7.89E-05
07-Feb-91	0.02	0.69	0.12	75.96	93.24	17.28	183.9	860.7	-1.84	0.21	1.84	0.19	0.57	1.79E-04
08-Feb-91	0.05	0.69	0.01	75.99	93.23	17.24	183.7	858.8	-1.84	0.53	0.15	0.02	3.66	1.15E-03
09-Feb-91	0.05	0.69	0.00	75.97	93.21	17.24	183.2	854.8	-4.04	0.53			3.68	1.16E-03
10-Feb-91	0.12	0.69	0.00	76.02	93.19	17.17	182.8	850.7	-4.03	1.26			3.50	1.12E-03

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

											Runoff Coeff. = 0.01		Drain. Area (ac) = 1920			
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
11-Feb-91	0.16	0.69	0.00	75.95	93.16	17.21	182.3	846.7	-4.02	1.68			2.76	8.78E-04		
12-Feb-91	0.13	0.69	0.00	75.84	93.14	17.30	181.8	842.7	-4.01	1.36			2.33	7.40E-04		
13-Feb-91	0.12	0.69	0.00	75.92	93.12	17.20	181.4	838.7	-4.00	1.25			2.64	8.45E-04		
14-Feb-91	0.15	0.69	0.31	76.08	93.10	17.02	181.0	835.1	-3.62	1.56	4.68	0.50	2.37	7.70E-04		
15-Feb-91	0.19	0.69	0.01	75.93	93.08	17.15	180.5	831.5	-3.62	1.97	0.15	0.02	7.23	2.33E-03		
16-Feb-91	0.19	0.69	0.00	75.58	93.06	17.48	180.1	827.9	-3.61	1.97			1.80	5.72E-04		
17-Feb-91	0.10	0.69	0.00	75.61	93.04	17.43	179.7	824.3	-3.60	1.03			1.63	5.21E-04		
18-Feb-91	0.08	0.69	0.00	75.69	93.02	17.33	179.3	820.7	-3.59	0.82			2.56	8.23E-04		
19-Feb-91	0.16	0.69	0.00	75.69	93.00	17.31	178.9	817.1	-3.58	1.65			2.76	8.90E-04		
20-Feb-91	0.17	0.69	0.00	75.68	92.98	17.30	178.5	813.5	-3.57	1.74			1.93	6.24E-04		
21-Feb-91	0.19	0.69	0.00	75.68	92.95	17.27	177.9	809.0	-4.58	1.94			2.84	9.23E-04		
22-Feb-91	0.12	0.69	0.00	75.76	92.93	17.17	177.4	804.4	-4.57	1.22			2.62	8.62E-04		
23-Feb-91	0.11	0.69	0.00	75.81	92.90	17.09	176.8	799.8	-4.55	1.12			3.33	1.10E-03		
24-Feb-91	0.18	0.69	0.00	75.83	92.88	17.05	176.3	795.3	-4.54	1.82			3.42	1.14E-03		
25-Feb-91	0.10	0.69	0.00	75.84	92.85	17.01	175.8	790.8	-4.53	1.01			2.70	9.04E-04		
26-Feb-91	0.07	0.69	0.00	75.80	92.83	17.03	175.2	786.3	-4.51	0.71			3.50	1.17E-03		
27-Feb-91	0.20	0.69	0.00	75.66	92.80	17.14	174.7	781.8	-4.50	2.01			3.79	1.27E-03		
28-Feb-91	0.13	0.69	0.00	75.65	92.85	17.20	175.6	789.8	8.01	1.31			-10.02			
01-Mar-91	0.04	0.73	0.00	75.76	92.89	17.13	176.6	797.8	8.05	0.43			-9.36			
02-Mar-91	0.11	0.73	0.00	75.90	92.94	17.04	177.6	805.9	8.10	1.19			-8.53			
03-Mar-91	0.01	0.73	5.15	76.23	92.98	16.75	178.5	814.1	8.14	0.11	76.61	8.24	-9.33			
04-Mar-91	0.22	0.73	0.00	76.12	93.03	16.91	179.5	822.2	8.18	2.40			76.56	2.52E-02		
05-Mar-91	0.06	0.73	0.00	76.05	93.07	17.02	180.4	830.5	8.23	0.66			-10.63			
06-Mar-91	0.15	0.73	0.00	76.09	93.12	17.03	181.4	838.7	8.27	1.66			-8.93			
07-Mar-91	0.18	0.73	0.00	76.14	93.10	16.96	181.0	835.6	-3.11	1.98			1.45	4.73E-04		
08-Mar-91	0.16	0.73	0.00	76.19	93.09	16.90	180.7	832.5	-3.10	1.76			1.12	3.66E-04		
09-Mar-91	0.12	0.73	0.27	76.26	93.07	16.81	180.3	829.4	-3.09	1.32	4.06	0.43	1.34	4.41E-04		
10-Mar-91	0.10	0.73	0.00	76.24	93.05	16.81	180.0	826.3	-3.09	1.09			6.26	2.07E-03		
11-Mar-91	0.21	0.73	0.00	76.22	93.03	16.81	179.6	823.3	-3.08	2.29			1.99	6.58E-04		
12-Mar-91	0.14	0.73	0.00	76.28	93.02	16.74	179.2	820.2	-3.08	1.53			0.78	2.61E-04		
13-Mar-91	0.15	0.73	0.00	76.39	93.00	16.61	178.9	817.1	-3.07	1.63			1.54	5.19E-04		
14-Mar-91	0.10	0.73	0.04	76.38	93.03	16.65	179.6	823.3	6.15	1.09	0.60	0.06	-7.78			
15-Mar-91	0.26	0.73	0.09	76.24	93.07	16.83	180.3	829.4	6.17	2.85	1.35	0.14	-6.60			
16-Mar-91	0.12	0.73	0.35	76.21	93.10	16.89	181.0	835.6	6.19	1.32	5.28	0.56	-7.55			
17-Mar-91	0.14	0.73	0.63	76.45	93.14	16.69	181.7	841.8	6.22	1.55	9.54	1.01	-1.70			
18-Mar-91	0.01	0.73	2.80	76.71	93.17	16.46	182.5	848.1	6.24	0.11	42.57	4.48	2.76	9.18E-04		
19-Mar-91	0.12	0.73	0.00	76.64	93.21	16.57	183.2	854.4	6.27	1.34			40.68	1.34E-02		
20-Mar-91	0.18	0.73	0.00	76.60	93.24	16.64	183.9	860.7	6.29	2.01			-7.63			
21-Mar-91	0.17	0.73	0.00	76.66	93.22	16.56	183.5	857.0	-3.67	1.90			1.66	5.46E-04		
22-Mar-91	0.20	0.73	0.00	76.70	93.20	16.50	183.1	853.3	-3.67	2.23			1.77	5.85E-04		
23-Mar-91	0.18	0.73	0.00	76.68	93.18	16.50	182.6	849.7	-3.66	2.00			1.43	4.75E-04		
24-Mar-91	0.17	0.73	0.00	76.76	93.16	16.40	182.2	846.0	-3.65	1.88			1.65	5.52E-04		
25-Mar-91	0.16	0.73	0.00	76.81	93.14	16.33	181.8	842.4	-3.64	1.77			1.76	5.91E-04		
26-Mar-91	0.13	0.73	0.00	76.84	93.12	16.28	181.4	838.7	-3.63	1.43			1.86	6.31E-04		
27-Mar-91	0.19	0.73	0.00	76.88	93.10	16.22	181.0	835.1	-3.62	2.09			2.19	7.46E-04		
28-Mar-91	0.23	0.73	0.00	76.98	93.08	16.10	180.6	832.0	-3.10	2.53			1.01	3.47E-04		
29-Mar-91	0.18	0.73	0.00	77.09	93.07	15.98	180.3	828.9	-3.09	1.97			0.57	1.97E-04		
30-Mar-91	0.28	0.73	0.86	77.16	93.05	15.89	179.9	825.8	-3.09	3.06	12.89	1.38	1.11	3.90E-04		
31-Mar-91	0.09	0.73	0.00	77.14	93.03	15.89	179.5	822.7	-3.08	0.98			14.29	5.01E-03		
01-Apr-91	0.14	0.84	0.00	77.06	93.01	15.95	179.2	819.7	-3.07	1.76			2.09	7.32E-04		
02-Apr-91	0.20	0.84	0.00	77.04	93.00	15.96	178.8	816.6	-3.07	2.50			1.31	4.60E-04		
03-Apr-91	0.23	0.84	0.00	77.00	92.98	15.98	178.5	813.5	-3.06	2.87			0.56	1.96E-04		
04-Apr-91	0.20	0.84	0.00	77.01	92.98	15.97	178.4	813.0	-0.51	2.50			-2.36			
05-Apr-91	0.18	0.84	0.01	77.06	92.97	15.91	178.3	812.5	-0.51	2.25	0.15	0.02	-1.99			
06-Apr-91	0.12	0.84	0.00	77.09	92.97	15.88	178.3	812.0	-0.51	1.50			-1.57			
07-Apr-91	0.18	0.84	0.00	77.20	92.97	15.77	178.2	811.5	-0.51	2.25			-0.99			
08-Apr-91	0.18	0.84	0.01	77.17	92.97	15.80	178.2	811.0	-0.51	2.24	0.15	0.02	-1.74			
09-Apr-91	0.19	0.84	0.47	77.28	92.96	15.68	178.1	810.5	-0.51	2.37	6.98	0.75	-1.57			
10-Apr-91	0.13	0.84	0.53	77.35	92.96	15.61	178.0	810.0	-0.51	1.62	7.86	0.85	5.87	2.11E-03		
11-Apr-91	0.17	0.84	0.10	77.31	92.94	15.63	177.6	806.4	-3.56	2.11	1.48	0.16	10.65	3.84E-03		
12-Apr-91	0.21	0.84	0.00	77.26	92.91	15.65	177.0	801.1	-5.32	2.60			4.85	1.75E-03		
13-Apr-91	0.23	0.84	0.00	77.27	92.87	15.60	176.2	794.0	-7.06	2.84			4.46	1.62E-03		
14-Apr-91	0.20	0.84	0.00	77.34	92.85	15.51	175.7	790.1	-3.96	2.46			1.12	4.12E-04		
15-Apr-91	0.25	0.84	0.01	77.31	92.83	15.52	175.2	786.1	-3.95	3.07	0.15	0.02	1.49	5.47E-04		
16-Apr-91	0.17	0.84	0.00	77.29	92.80	15.51	174.7	782.2	-3.94	2.08			1.03	3.81E-04		
17-Apr-91	0.20	0.84	0.00	77.36	92.78	15.42	174.3	778.3	-3.93	2.44			1.85	6.87E-04		
18-Apr-91	0.10	0.84	0.64	77.53	92.99	15.46	178.7	815.3	37.06	1.25	9.53	1.02	-39.50			
19-Apr-91	0.15	0.84	0.00	77.55	93.04	15.49	179.6	823.4	8.06	1.89			1.24	4.46E-04		
20-Apr-91	0.11	0.84	1.30	77.56	93.08	15.52	180.5	831.5	8.10	1.39			-9.99			
21-Apr-91	0.05	0.84	1.48	77.60	93.10	15.50	180.9	834.8	3.31	0.63	22.32	2.37	16.94	6.04E-03		

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
22-Apr-91	0.23	0.84	0.00	77.55	93.12	15.57	181.3	838.1	3.32	2.92			20.73	7.34E-03
23-Apr-91	0.19	0.84	0.00	77.58	93.14	15.56	181.7	841.5	3.33	2.42			-6.25	
24-Apr-91	0.02	0.84	0.26	77.55	93.15	15.60	182.1	844.8	3.33	0.25	3.95	0.42	-5.75	
25-Apr-91	0.20	0.84	0.00	77.50	93.17	15.67	182.5	848.1	3.34	2.55			0.76	2.67E-04
26-Apr-91	0.10	0.84	1.11	77.59	93.19	15.60	182.9	851.5	3.35	1.28	16.91	1.78	-5.90	
27-Apr-91	0.07	0.84	0.03	77.67	93.19	15.52	182.9	852.1	0.61	0.90	0.46	0.05	16.80	5.92E-03
28-Apr-91	0.22	0.84	0.00	77.71	93.20	15.49	183.0	852.7	0.61	2.82			-1.00	
29-Apr-91	0.25	0.84	0.00	77.74	93.20	15.46	183.1	853.3	0.61	3.20			-3.43	
30-Apr-91	0.24	0.84	0.00	77.68	93.20	15.52	183.1	853.9	0.61	3.08			-3.81	
01-May-91	0.24	0.82	0.00	77.69	93.21	15.52	183.2	854.5	0.61	3.00			-3.69	
02-May-91	0.24	0.82	0.36	77.76	93.21	15.45	183.3	855.1	0.61	3.01	5.50	0.58	-3.62	
03-May-91	0.22	0.82	0.00	77.79	93.19	15.40	182.9	851.7	-3.43	2.75			6.50	2.31E-03
04-May-91	0.22	0.82	0.00	77.74	93.17	15.43	182.5	848.3	-3.43	2.74			0.68	2.40E-04
05-May-91	0.18	0.82	0.00	77.75	93.15	15.40	182.1	844.9	-3.42	2.24			0.67	2.41E-04
06-May-91	0.24	0.82	0.00	77.74	93.14	15.39	181.7	841.5	-3.41	2.98			1.17	4.19E-04
07-May-91	0.14	0.82	0.11	77.76	93.12	15.36	181.3	838.1	-3.40	1.73	1.66	0.18	0.42	1.52E-04
08-May-91	0.19	0.82	0.08	77.75	93.10	15.35	180.9	834.7	-3.40	2.35	1.21	0.13	3.50	1.26E-03
09-May-91	0.28	0.82	0.00	77.70	93.08	15.38	180.5	831.3	-3.39	3.45			2.37	8.55E-04
10-May-91	0.23	0.82	0.00	77.67	93.06	15.39	180.1	827.9	-3.38	2.83			-0.07	
11-May-91	0.23	0.82	0.02	77.76	93.06	15.30	180.1	827.9	0.00	2.83	0.30	0.03	-2.83	
12-May-91	0.18	0.82	0.40	77.90	93.06	15.16	180.1	827.9	0.00	2.22	6.00	0.64	-2.50	
13-May-91	0.20	0.82	0.00	77.92	93.06	15.14	180.1	827.9	0.00	2.46			4.43	1.62E-03
14-May-91	0.22	0.82	0.30	77.94	93.06	15.12	180.1	827.9	0.00	2.71	4.50	0.48	-2.46	
15-May-91	0.27	0.82	0.00	77.84	93.06	15.22	180.1	827.9	0.00	3.32			2.28	8.30E-04
16-May-91	0.28	0.82	0.00	77.80	93.06	15.26	180.1	827.9	0.00	3.45			-3.32	
17-May-91	0.26	0.82	0.50	77.89	93.06	15.17	180.1	827.9	0.00	3.20	7.51	0.80	-3.45	
18-May-91	0.21	0.82	0.00	77.89	93.06	15.17	180.1	827.9	0.00	2.58			5.11	1.87E-03
19-May-91	0.29	0.82	0.00	77.89	93.05	15.16	179.9	826.1	-1.80	3.57			-0.78	
20-May-91	0.21	0.82	0.75	77.90	93.04	15.14	179.7	824.3	-1.80	2.58	11.23	1.20	-1.77	
21-May-91	0.21	0.82	0.00	77.87	93.03	15.16	179.5	822.5	-1.80	2.58			11.65	4.28E-03
22-May-91	0.19	0.82	0.00	77.82	93.02	15.20	179.3	820.7	-1.79	2.33			-0.78	
23-May-91	0.19	0.82	0.01	77.81	93.01	15.20	179.1	818.9	-1.79	2.33	0.15	0.02	-0.54	
24-May-91	0.05	0.82	0.20	77.90	93.00	15.10	178.9	817.1	-1.79	0.61	2.98	0.32	-0.37	
25-May-91	0.09	0.82	0.08	77.95	92.99	15.04	178.7	815.9	-1.19	1.10	1.19	0.13	3.88	1.44E-03
26-May-91	0.28	0.82	0.00	77.96	92.99	15.03	178.6	814.7	-1.19	3.42			1.41	5.26E-04
27-May-91	0.09	0.82	0.25	77.97	92.98	15.01	178.5	813.5	-1.19	1.10	3.72	0.40	-2.23	
28-May-91	0.24	0.82	0.70	77.91	92.97	15.06	178.3	812.4	-1.19	2.92	10.40	1.12	4.21	1.57E-03
29-May-91	0.21	0.82	0.00	77.88	92.97	15.09	178.2	811.2	-1.19	2.56			9.79	3.64E-03
30-May-91	0.26	0.82	0.31	77.88	92.96	15.08	178.0	810.0	-1.19	3.16	4.60	0.50	-1.37	
31-May-91	0.15	0.82	0.03	77.87	92.92	15.05	177.2	802.9	-7.11	1.82	0.44	0.05	9.04	3.39E-03
01-Jun-91	0.09	0.85	1.67	77.96	92.88	14.92	176.4	795.8	-7.07	1.12	24.54	2.67	5.75	2.18E-03
02-Jun-91	0.24	0.85	0.00	78.01	92.91	14.90	177.0	801.1	5.30	3.01			20.79	7.88E-03
03-Jun-91	0.28	0.85	0.00	77.98	92.94	14.96	177.6	806.4	5.32	3.52			-8.33	
04-Jun-91	0.20	0.85	0.00	78.03	92.97	14.94	178.2	811.8	5.34	2.53			-8.86	
05-Jun-91	0.29	0.85	1.03	78.09	93.00	14.91	178.9	817.1	5.36	3.67	15.35	1.65	-7.88	
06-Jun-91	0.17	0.85	0.42	78.14	93.02	14.88	179.3	820.7	3.58	2.16	6.28	0.67	9.75	3.65E-03
07-Jun-91	0.12	0.85	0.06	78.19	93.04	14.85	179.7	824.3	3.59	1.53	0.90	0.10	1.20	4.49E-04
08-Jun-91	0.04	0.85	0.09	78.25	93.06	14.81	180.1	827.9	3.60	0.51	1.35	0.14	-4.13	
09-Jun-91	0.22	0.85	0.00	78.30	93.08	14.78	180.5	831.5	3.61	2.81			-2.62	
10-Jun-91	0.30	0.85	0.00	78.35	93.10	14.75	181.0	835.1	3.62	3.85			-6.43	
11-Jun-91	0.25	0.85	0.00	78.40	93.12	14.72	181.4	838.7	3.62	3.21			-7.47	
12-Jun-91	0.22	0.85	0.00	78.46	93.14	14.68	181.8	842.4	3.63	2.83			-6.84	
13-Jun-91	0.29	0.85	0.00	78.51	93.13	14.62	181.6	840.5	-1.82	3.73			-1.02	
14-Jun-91	0.22	0.85	0.00	78.50	93.12	14.62	181.4	838.7	-1.82	2.83			-1.92	
15-Jun-91	0.22	0.85	0.00	78.60	93.11	14.51	181.2	837.3	-1.45	2.82			-1.38	
16-Jun-91	0.25	0.85	0.00	78.71	93.10	14.39	181.1	835.8	-1.45	3.21			-1.37	
17-Jun-91	0.23	0.85	0.00	78.74	93.10	14.36	180.9	834.4	-1.45	2.95			-1.76	
18-Jun-91	0.15	0.85	1.34	78.78	93.09	14.31	180.7	832.9	-1.45	1.92	20.18	2.14	-1.50	
19-Jun-91	0.12	0.85	0.07	78.75	93.08	14.33	180.5	831.5	-1.45	1.53	1.05	0.11	21.85	8.44E-03
20-Jun-91	0.12	0.85	0.20	78.75	93.08	14.33	180.5	831.5	0.00	1.53	3.01	0.32	-0.37	
21-Jun-91	0.26	0.85	0.00	78.77	93.08	14.31	180.5	831.5	0.00	3.33			1.79	6.95E-04
22-Jun-91	0.27	0.85	0.00	78.76	93.08	14.32	180.5	831.5	0.00	3.45			-3.33	
23-Jun-91	0.27	0.85	0.00	78.78	93.08	14.30	180.5	831.5	0.00	3.45			-3.45	
24-Jun-91	0.26	0.85	0.00	78.73	93.08	14.35	180.5	831.5	0.00	3.33			-3.45	
25-Jun-91	0.23	0.85	0.32	78.80	93.08	14.28	180.5	831.5	0.00	2.94	4.81	0.51	-3.33	
26-Jun-91	0.24	0.85	0.06	78.86	93.08	14.22	180.5	831.5	0.00	3.07	0.90	0.10	2.39	9.29E-04
27-Jun-91	0.18	0.85	1.42	78.84	93.07	14.23	180.3	828.9	-2.58	2.30	21.33	2.27	0.51	1.98E-04
28-Jun-91	0.22	0.85	0.02	78.79	93.05	14.26	180.0	826.3	-2.57	2.80	0.30	0.03	23.88	9.30E-03
29-Jun-91	0.28	0.85	0.00	78.84	93.04	14.20	179.7	823.8	-2.57	3.56			0.10	3.78E-05
30-Jun-91	0.13	0.85	0.13	78.93	93.02	14.09	179.4	821.2	-2.56	1.65	1.94	0.21	-1.00	

BROOKLYN LAKE DAILY WATER BUDGET: LAKE STAGE vs FLORIDAN AQUIFER

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Floridan (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jul-91	0.20	0.91	0.00	78.95	93.01	14.06	179.1	818.6	-2.56	2.72			3.06	1.22E-03
02-Jul-91	0.19	0.91	0.14	78.93	92.99	14.06	178.8	816.1	-2.56	2.58	2.09	0.22	-0.16	
03-Jul-91	0.23	0.91	0.00	78.88	92.98	14.10	178.5	813.5	-2.55	3.11			2.29	9.08E-04
04-Jul-91	0.23	0.91	0.08	78.89	92.97	14.08	178.3	812.0	-1.53	3.11	1.19	0.13	-1.58	
05-Jul-91	0.30	0.91	0.17	78.85	92.96	14.11	178.1	810.5	-1.53	4.05	2.52	0.27	-0.27	
06-Jul-91	0.16	0.91	0.04	78.87	92.95	14.08	177.9	809.0	-1.53	2.16	0.59	0.06	0.27	1.07E-04
07-Jul-91	0.16	0.91	0.00	78.91	92.95	14.04	177.7	807.4	-1.52	2.16			0.02	9.09E-06
08-Jul-91	0.17	0.91	0.00	78.92	92.94	14.02	177.6	805.9	-1.52	2.29			-0.63	
09-Jul-91	0.21	0.91	0.26	78.99	92.93	13.94	177.4	804.4	-1.52	2.82	3.84	0.42	-0.77	
10-Jul-91	0.13	0.91	0.47	79.00	92.92	13.92	177.2	802.9	-1.52	1.75	6.94	0.75	2.95	1.20E-03
11-Jul-91	0.17	0.91	1.09	79.00	92.93	13.93	177.4	804.4	1.52	2.29	16.11	1.74	4.43	1.79E-03
12-Jul-91	0.10	0.91	0.10	79.01	92.94	13.93	177.6	805.9	1.52	1.35	1.48	0.16	14.05	5.68E-03
13-Jul-91	0.07	0.91	0.00	79.01	92.95	13.94	177.7	807.4	1.52	0.94			-1.23	
14-Jul-91	0.12	0.91	0.00	79.00	92.95	13.95	177.9	809.0	1.52	1.62			-2.47	
15-Jul-91	0.13	0.91	0.02	78.96	92.96	14.00	178.1	810.5	1.53	1.76	0.30	0.03	-3.14	
16-Jul-91	0.23	0.91	0.02	78.99	92.97	13.98	178.3	812.0	1.53	3.11	0.30	0.03	-2.95	
17-Jul-91	0.22	0.91	0.00	78.98	92.98	14.00	178.5	813.5	1.53	2.98			-4.31	
18-Jul-91	0.22	0.91	0.00	79.00	92.99	13.99	178.8	816.1	2.55	2.98			-5.53	
19-Jul-91	0.13	0.91	0.01	79.01	93.01	14.00	179.1	818.6	2.56	1.77	0.15	0.02	-5.54	
20-Jul-91	0.31	0.91	0.94	79.01	93.02	14.01	179.4	821.2	2.56	4.22	14.05	1.50	-4.16	
21-Jul-91	0.18	0.91	0.00	79.01	93.04	14.03	179.7	823.8	2.56	2.45			8.77	3.48E-03
22-Jul-91	0.23	0.91	0.00	79.04	93.05	14.01	180.0	826.3	2.57	3.14			-5.02	
23-Jul-91	0.25	0.91	0.00	79.14	93.07	13.93	180.3	828.9	2.57	3.42			-5.71	
24-Jul-91	0.18	0.91	0.00	79.24	93.08	13.84	180.5	831.5	2.58	2.46			-5.99	
25-Jul-91	0.17	0.91	0.53	79.20	93.10	13.90	181.0	835.1	3.62	2.33	7.99	0.85	-6.08	
26-Jul-91	0.18	0.91	0.00	79.26	93.12	13.86	181.4	838.7	3.62	2.48			2.88	1.15E-03
27-Jul-91	0.14	0.91	0.76	79.29	93.14	13.85	181.8	842.4	3.63	1.93	11.51	1.22	-6.11	
28-Jul-91	0.13	0.91	1.18	79.32	93.16	13.84	182.2	846.0	3.64	1.80	17.92	1.89	7.16	2.84E-03
29-Jul-91	0.14	0.91	0.35	79.33	93.20	13.87	183.1	853.3	7.31	1.94	5.34	0.56	10.70	4.22E-03
30-Jul-91	0.12	0.91	0.42	79.38	93.24	13.86	183.9	860.7	7.34	1.67	6.44	0.67	-3.38	
31-Jul-91	0.14	0.91	0.77	79.49	93.28	13.79	184.7	868.0	7.37	1.96	11.85	1.23	-1.94	
01-Aug-91	0.09	0.91	1.48	79.57	93.32	13.75	185.6	875.4	7.41	1.27	22.89	2.37	3.72	1.46E-03
02-Aug-91	0.05	0.91	0.13	79.55	93.36	13.81	186.4	882.9	7.44	0.71	2.02	0.21	16.55	6.43E-03
03-Aug-91	0.17	0.91	0.08	79.60	93.40	13.80	187.3	890.3	7.47	2.41	1.25	0.13	-5.95	
04-Aug-91	0.14	0.91	0.02	79.69	93.44	13.75	188.1	897.9	7.51	2.00	0.31	0.03	-8.54	
05-Aug-91	0.22	0.91	0.08	79.75	93.48	13.73	188.9	905.4	7.54	3.15	1.26	0.13	-9.19	
06-Aug-91	0.15	0.91	0.07	79.69	93.52	13.83	189.8	913.0	7.57	2.16	1.11	0.11	-9.34	
07-Aug-91	0.24	0.91	0.00	79.71	93.54	13.83	190.2	916.8	3.80	3.46			-4.74	
08-Aug-91	0.25	0.91	0.00	79.73	93.53	13.80	190.0	914.9	-1.90	3.60			-1.56	
09-Aug-91	0.21	0.91	0.07	79.80	93.52	13.72	189.8	913.0	-1.90	3.02	1.11	0.11	-1.70	
10-Aug-91	0.13	0.91	0.00	79.78	93.51	13.73	189.6	911.1	-1.90	1.87			0.09	3.60E-05
11-Aug-91	0.20	0.91	0.16	79.73	93.50	13.77	189.3	909.2	-1.89	2.87	2.52	0.26	0.03	9.95E-06
12-Aug-91	0.25	0.91	0.00	79.74	93.49	13.75	189.1	907.3	-1.89	3.59			1.80	6.93E-04
13-Aug-91	0.10	0.91	0.05	79.75	93.48	13.73	188.9	905.4	-1.89	1.43	0.79	0.08	-1.70	
14-Aug-91	0.24	0.91	0.00	79.73	93.48	13.75	189.0	905.9	0.47	3.44			-1.04	
15-Aug-91	0.29	0.91	0.00	79.72	93.49	13.77	189.0	906.3	0.47	4.16			-3.91	
16-Aug-91	0.18	0.91	0.61	79.76	93.49	13.73	189.1	906.8	0.47	2.58	9.61	0.98	-4.63	
17-Aug-91	0.20	0.91	0.00	79.77	93.49	13.72	189.1	907.3	0.47	2.87			7.53	2.90E-03
18-Aug-91	0.25	0.91	0.00	79.77	93.49	13.72	189.2	907.8	0.47	3.59			-3.34	
19-Aug-91	0.17	0.91	0.00	79.71	93.50	13.79	189.2	908.2	0.47	2.44			-4.06	
20-Aug-91	0.16	0.91	0.14	79.73	93.50	13.77	189.3	908.7	0.47	2.30	2.21	0.22	-2.91	
21-Aug-91	0.14	0.91	0.01	79.65	93.50	13.85	189.3	909.2	0.47	2.01	0.16	0.02	-0.34	
22-Aug-91	0.23	0.91	0.00	79.62	93.53	13.91	189.9	914.1	4.88	3.31			-6.71	
23-Aug-91	0.20	0.91	0.00	79.61	93.55	13.94	190.4	918.9	4.89	2.89			-8.20	
24-Aug-91	0.17	0.91	0.54	79.68	93.58	13.90	191.0	923.8	4.90	2.46	8.59	0.86	-7.79	
25-Aug-91	0.10	0.91	0.13	79.72	93.60	13.88	191.5	928.8	4.92	1.45	2.07	0.21	2.08	7.82E-04
26-Aug-91	0.13	0.91	0.00	79.75	93.63	13.88	192.0	933.7	4.93	1.89			-4.10	
27-Aug-91	0.05	0.91	2.74	79.68	93.65	13.97	192.6	938.6	4.95	0.73	43.97	4.38	-6.84	
28-Aug-91	0.15	0.91	0.67	79.67	93.68	14.01	193.1	943.6	4.96	2.20	10.78	1.07	42.67	1.58E-02
29-Aug-91	0.21	0.91	0.64	79.61	93.68	14.07	193.2	944.2	0.55	3.08	10.30	1.02	9.11	3.35E-03
30-Aug-91	0.14	0.91	0.00	79.67	93.69	14.02	193.2	944.7	0.55	2.05			7.70	2.84E-03
31-Aug-91	0.13	0.91	0.02	79.66	93.69	14.03	193.3	945.3	0.55	1.91	0.32	0.03	-2.60	

Mean = 1.107E-03
 Variance = 4.457E-06
 Std. Dev. = 2.111E-03

**D5. Brooklyn Lake Daily Water Budget:
Lake Stage versus Intermediate Aquifer**

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jan-89	0.06	0.77	0.00	92.52	106.65	14.13	464.7	5209.7	NA	1.79			NA	NA
02-Jan-89	0.08	0.77	0.00	92.49	106.64	14.15	464.5	5205.0	-4.65	2.38			2.86	
03-Jan-89	0.08	0.77	0.00	92.54	106.62	14.08	464.1	5195.7	-9.29	2.38			6.90	
04-Jan-89	0.16	0.77	0.00	92.26	106.61	14.35	463.9	5191.1	-4.64	4.76			2.26	
05-Jan-89	0.15	0.77	0.00	92.10	106.59	14.49	463.4	5181.8	-9.27	4.46			4.51	
06-Jan-89	0.10	0.77	0.00	92.13	106.58	14.45	463.2	5177.2	-4.63	2.97			0.17	
07-Jan-89	0.10	0.77	0.00	92.07	106.56	14.49	462.8	5167.9	-9.26	2.97			6.29	
08-Jan-89	0.10	0.77	0.00	92.10	106.54	14.44	462.4	5158.7	-9.25	2.97			6.28	
09-Jan-89	0.09	0.77	0.00	92.08	106.52	14.44	462.0	5149.4	-9.24	2.67			6.28	
10-Jan-89	0.07	0.77	0.00	91.97	106.50	14.53	461.6	5140.2	-9.24	2.07			6.57	
11-Jan-89	0.03	0.77	0.00	91.92	106.48	14.56	461.1	5131.0	-9.23	0.89			7.15	
12-Jan-89	0.02	0.77	0.00	91.92	106.46	14.54	460.7	5121.8	-9.22	0.59			8.33	
13-Jan-89	0.05	0.77	0.00	91.96	106.44	14.48	460.2	5110.6	-11.18	1.48			10.59	
14-Jan-89	0.14	0.77	0.00	91.84	106.41	14.57	459.7	5099.4	-11.17	4.13			9.69	
15-Jan-89	0.09	0.77	0.00	91.89	106.39	14.50	459.2	5088.2	-11.16	2.65			7.03	
16-Jan-89	0.11	0.77	0.00	91.84	106.36	14.52	458.7	5077.1	-11.15	3.24			8.49	
17-Jan-89	0.19	0.77	0.00	91.73	106.34	14.61	458.2	5066.0	-11.13	5.59			7.90	
18-Jan-89	0.09	0.77	0.00	91.76	106.31	14.55	457.7	5054.8	-11.12	2.64			5.54	
19-Jan-89	0.10	0.77	0.00	91.76	106.29	14.53	457.2	5043.7	-11.11	2.93			8.47	
20-Jan-89	0.10	0.77	0.00	91.84	106.29	14.45	457.3	5045.7	1.96	2.93			-4.89	
21-Jan-89	0.10	0.77	0.18	91.81	106.30	14.49	457.3	5047.7	1.96	2.93	6.86	0.29	-4.89	
22-Jan-89	0.07	0.77	0.96	92.08	106.30	14.22	457.4	5049.6	1.96	2.05	36.59	1.54	2.25	
23-Jan-89	0.03	0.77	0.01	92.02	106.31	14.29	457.5	5051.6	1.96	0.88	0.38	0.02	34.12	
24-Jan-89	0.12	0.77	0.00	91.84	106.31	14.47	457.8	5053.5	1.96	3.52			-2.44	
25-Jan-89	0.13	0.77	0.00	91.76	106.32	14.55	457.7	5055.5	1.96	3.82			-5.49	
26-Jan-89	0.14	0.77	0.00	91.70	106.32	14.62	457.8	5057.5	1.96	4.11			-5.78	
27-Jan-89	0.10	0.77	0.00	91.78	106.30	14.52	457.3	5047.0	-10.46	2.93			6.35	
28-Jan-89	0.13	0.77	0.00	91.73	106.27	14.54	456.8	5036.6	-10.45	3.81			7.51	
29-Jan-89	0.11	0.77	0.00	91.78	106.25	14.47	456.4	5026.1	-10.44	3.22			6.63	
30-Jan-89	0.11	0.77	0.00	91.84	106.23	14.39	455.9	5015.7	-10.43	3.22			7.20	
31-Jan-89	0.12	0.77	0.00	91.71	106.21	14.49	455.4	5005.3	-10.41	3.51			7.20	
01-Feb-89	0.16	0.69	0.00	91.60	106.18	14.58	454.9	4994.9	-10.40	4.19			6.90	
02-Feb-89	0.09	0.69	0.00	91.50	106.16	14.66	454.4	4984.5	-10.39	2.35			6.21	
03-Feb-89	0.13	0.69	0.00	91.42	106.14	14.72	454.0	4975.4	-9.08	3.39			6.73	
04-Feb-89	0.13	0.69	0.00	91.46	106.12	14.66	453.6	4966.3	-9.08	3.39			5.68	
05-Feb-89	0.12	0.69	0.00	91.54	106.10	14.56	453.2	4957.3	-9.07	3.13			5.68	
06-Feb-89	0.16	0.69	0.00	91.55	106.08	14.53	452.8	4948.2	-9.06	4.17			5.93	
07-Feb-89	0.17	0.69	0.00	91.47	106.06	14.59	452.3	4939.1	-9.05	4.42			4.89	
08-Feb-89	0.07	0.69	0.00	91.36	106.04	14.68	451.9	4930.1	-9.04	1.82			4.62	
09-Feb-89	0.21	0.69	0.00	91.15	106.02	14.87	451.5	4921.1	-9.03	5.45			7.22	
10-Feb-89	0.16	0.69	0.00	91.13	106.04	14.91	452.0	4931.4	10.33	4.16			-15.78	
11-Feb-89	0.14	0.69	0.00	91.21	106.07	14.85	452.5	4941.7	10.34	3.64			-14.50	
12-Feb-89	0.13	0.69	0.00	91.15	106.09	14.94	452.9	4952.1	10.35	3.39			-13.99	
13-Feb-89	0.12	0.69	0.00	91.07	106.11	15.04	453.4	4962.4	10.36	3.13			-13.74	
14-Feb-89	0.14	0.69	0.00	90.94	106.13	15.20	453.9	4972.8	10.37	3.65			-13.50	
15-Feb-89	0.17	0.69	0.00	90.87	106.16	15.28	454.4	4983.2	10.38	4.44			-14.03	
16-Feb-89	0.17	0.69	0.00	90.91	106.18	15.27	454.9	4993.6	10.39	4.45			-14.83	
17-Feb-89	0.15	0.69	0.00	90.96	106.10	15.14	453.2	4956.6	-36.97	3.91			32.52	
18-Feb-89	0.09	0.69	0.00	91.00	106.02	15.01	451.4	4919.8	-36.83	2.34			32.92	
19-Feb-89	0.04	0.69	0.00	91.05	105.94	14.88	449.7	4883.1	-36.69	1.03			34.36	
20-Feb-89	0.08	0.69	0.00	91.10	105.85	14.75	448.0	4846.5	-36.55	2.06			35.52	
21-Feb-89	0.14	0.69	0.00	91.15	105.77	14.62	446.3	4810.1	-36.41	3.59			34.35	
22-Feb-89	0.21	0.69	0.84	91.21	105.69	14.48	444.6	4773.8	-36.28	5.37	31.12	1.34	32.68	
23-Feb-89	0.15	0.69	0.00	90.99	105.61	14.62	442.9	4737.7	-36.14	3.82			63.24	
24-Feb-89	0.14	0.69	0.00	90.63	105.62	14.98	443.1	4740.9	3.16	3.57			-6.98	
25-Feb-89	0.14	0.69	0.00	90.57	105.62	15.06	443.2	4744.0	3.17	3.57			-6.73	
26-Feb-89	0.14	0.69	0.00	90.68	105.63	14.95	443.4	4747.2	3.17	3.57			-6.73	
27-Feb-89	0.15	0.69	0.00	90.89	105.64	14.75	443.5	4750.4	3.17	3.83			-6.74	
28-Feb-89	0.19	0.69	0.00	90.83	105.65	14.82	443.7	4753.5	3.17	4.85			-6.99	
01-Mar-89	0.20	0.73	0.00	90.73	105.65	14.92	443.8	4756.7	3.17	5.40			-8.02	
02-Mar-89	0.11	0.73	0.92	90.96	105.66	14.70	444.0	4759.9	3.17	2.97	34.04	1.47	-8.57	
03-Mar-89	0.01	0.73	0.21	91.07	105.64	14.57	443.5	4750.4	-9.51	0.27	7.76	0.34	42.05	
04-Mar-89	0.13	0.73	0.13	90.96	105.62	14.66	443.1	4740.9	-9.50	3.50	4.80	0.21	17.33	
05-Mar-89	0.18	0.73	0.00	90.94	105.60	14.66	442.6	4731.4	-9.49	4.85			10.99	
06-Mar-89	0.19	0.73	0.00	90.94	105.57	14.64	442.2	4721.9	-9.48	5.11			4.63	
07-Mar-89	0.15	0.73	0.00	90.89	105.55	14.66	441.7	4712.4	-9.47	4.03			4.36	
08-Mar-89	0.09	0.73	0.00	90.76	105.53	14.77	441.3	4703.0	-9.46	2.42			5.43	
09-Mar-89	0.05	0.73	0.00	90.70	105.51	14.81	440.8	4693.5	-9.45	1.34			7.04	
10-Mar-89	0.04	0.73	0.00	90.68	105.49	14.80	440.3	4682.8	-10.70	1.07			9.36	
11-Mar-89	0.21	0.73	0.00	90.63	105.46	14.83	439.8	4672.1	-10.69	5.62			9.62	
12-Mar-89	0.19	0.73	0.00	90.68	105.44	14.76	439.3	4661.4	-10.68	5.08			5.06	

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
13-Mar-89	0.23	0.73	0.00	90.65	105.41	14.76	438.8	4650.8	-10.66	6.14				5.59
14-Mar-89	0.20	0.73	0.00	90.58	105.39	14.80	438.3	4640.1	-10.65	5.33				4.51
15-Mar-89	0.30	0.73	0.00	90.47	105.36	14.89	437.8	4629.5	-10.64	7.99				5.31
16-Mar-89	0.19	0.73	0.00	90.34	105.34	15.00	437.3	4618.9	-10.63	5.05				2.64
17-Mar-89	0.23	0.73	0.00	90.21	105.32	15.10	436.8	4608.3	-10.61	6.11				5.56
18-Mar-89	0.23	0.73	0.00	90.13	105.29	15.16	436.3	4597.7	-10.60	6.10				4.49
19-Mar-89	0.19	0.73	0.00	90.07	105.27	15.20	435.7	4587.1	-10.59	5.04				4.48
20-Mar-89	0.26	0.73	0.00	90.08	105.24	15.16	435.2	4576.5	-10.58	6.88				5.54
21-Mar-89	0.15	0.73	0.00	90.15	105.22	15.07	434.7	4565.9	-10.56	3.97				3.68
22-Mar-89	0.22	0.73	0.00	90.13	105.19	15.06	434.2	4555.4	-10.55	5.81				6.58
23-Mar-89	0.14	0.73	0.22	90.29	105.17	14.88	433.7	4544.8	-10.54	3.69	7.95	0.35		4.73
24-Mar-89	0.17	0.73	0.08	90.23	105.15	14.92	433.3	4535.5	-9.29	4.48	2.89	0.13		13.90
25-Mar-89	0.12	0.73	0.00	90.18	105.13	14.95	432.8	4526.3	-9.28	3.16				7.82
26-Mar-89	0.12	0.73	0.00	90.15	105.11	14.96	432.4	4517.0	-9.27	3.16				6.11
27-Mar-89	0.21	0.73	0.00	90.02	105.08	15.06	431.9	4507.7	-9.26	5.52				6.10
28-Mar-89	0.21	0.73	0.00	89.99	105.06	15.08	431.5	4498.5	-9.25	5.51				3.73
29-Mar-89	0.26	0.73	0.00	89.99	105.04	15.05	431.0	4489.2	-9.24	6.82				3.73
30-Mar-89	0.19	0.73	0.00	90.08	105.02	14.94	430.6	4480.0	-9.23	4.98				2.41
31-Mar-89	0.17	0.73	0.00	90.05	105.00	14.95	430.1	4470.3	-9.68	4.45				4.71
01-Apr-89	0.38	0.84	0.00	89.71	104.98	15.26	429.6	4460.7	-9.67	11.43				5.22
02-Apr-89	0.23	0.84	0.00	89.60	104.95	15.35	429.2	4451.0	-9.66	6.91				-1.77
03-Apr-89	0.23	0.84	0.00	89.57	104.93	15.36	428.7	4441.3	-9.65	6.90				2.74
04-Apr-89	0.18	0.84	0.00	89.50	104.91	15.40	428.2	4431.7	-9.64	5.40				2.74
05-Apr-89	0.23	0.84	0.19	89.65	104.89	15.24	427.7	4422.1	-9.63	6.89	6.77	0.30		4.23
06-Apr-89	0.17	0.84	0.12	89.76	104.86	15.10	427.3	4412.5	-9.62	5.08	4.27	0.19		9.81
07-Apr-89	0.27	0.84	0.00	89.84	104.84	15.00	426.8	4402.8	-9.61	8.07				8.99
08-Apr-89	0.22	0.84	0.00	89.78	104.80	15.03	426.0	4387.0	-15.84	6.56				7.77
09-Apr-89	0.25	0.84	0.00	89.62	104.77	15.15	425.2	4371.2	-15.81	7.44				9.25
10-Apr-89	0.25	0.84	0.00	89.47	104.73	15.26	424.5	4355.4	-15.78	7.43				8.34
11-Apr-89	0.23	0.84	0.08	89.44	104.69	15.25	423.7	4339.7	-15.75	6.82	2.82	0.13		8.32
12-Apr-89	0.04	0.84	0.13	89.50	104.65	15.15	422.9	4323.9	-15.72	1.18	4.58	0.21		11.85
13-Apr-89	0.15	0.84	0.00	89.54	104.62	15.08	422.1	4308.3	-15.69	4.43				19.30
14-Apr-89	0.12	0.84	0.00	89.47	104.58	15.11	421.4	4292.6	-15.67	3.54				11.23
15-Apr-89	0.16	0.84	0.75	89.65	104.56	14.91	420.8	4282.1	-10.53	4.71	26.30	1.20		6.99
16-Apr-89	0.10	0.84	0.06	89.57	104.53	14.96	420.3	4271.5	-10.51	2.94	2.10	0.10		33.30
17-Apr-89	0.20	0.84	0.00	89.36	104.51	15.15	419.8	4261.0	-10.50	5.88				9.76
18-Apr-89	0.24	0.84	0.00	89.36	104.48	15.12	419.3	4250.6	-10.49	7.04				4.61
19-Apr-89	0.21	0.84	0.00	89.36	104.46	15.10	418.7	4240.1	-10.48	6.16				3.43
20-Apr-89	0.21	0.84	0.00	89.34	104.43	15.09	418.2	4229.6	-10.46	6.15				4.31
21-Apr-89	0.17	0.84	0.01	89.37	104.40	15.03	417.6	4218.3	-11.34	4.97	0.35	0.02		5.20
22-Apr-89	0.13	0.84	0.00	89.18	104.38	15.20	417.1	4206.9	-11.33	3.80				6.72
23-Apr-89	0.21	0.84	0.00	89.04	104.35	15.31	416.5	4195.6	-11.31	6.12				7.52
24-Apr-89	0.23	0.84	0.00	88.94	104.32	15.38	415.9	4184.3	-11.30	6.70				5.18
25-Apr-89	0.26	0.84	0.00	88.94	104.29	15.36	415.4	4173.0	-11.28	7.56				4.59
26-Apr-89	0.27	0.84	0.00	88.89	104.27	15.38	414.8	4161.8	-11.27	7.84				3.71
27-Apr-89	0.27	0.84	0.00	88.84	104.24	15.40	414.2	4150.5	-11.25	7.83				3.41
28-Apr-89	0.29	0.84	0.00	88.73	104.21	15.49	413.7	4139.9	-10.65	8.40				2.82
29-Apr-89	0.28	0.84	0.00	88.58	104.19	15.61	413.2	4129.3	-10.63	8.10				2.23
30-Apr-89	0.28	0.84	0.00	88.57	104.16	15.60	412.6	4118.6	-10.62	8.09				2.52
01-May-89	0.22	0.82	0.08	88.84	104.14	15.30	412.1	4108.0	-10.60	6.19	2.75	0.13		2.52
02-May-89	0.13	0.82	0.59	88.87	104.11	15.24	411.5	4097.4	-10.59	3.66	20.23	0.94		7.27
03-May-89	0.27	0.82	0.00	88.71	104.09	15.37	411.0	4086.9	-10.58	7.58				28.10
04-May-89	0.25	0.82	0.00	88.65	104.06	15.41	410.5	4076.3	-10.56	7.01				2.98
05-May-89	0.22	0.82	0.00	88.60	104.02	15.42	409.7	4061.7	-14.65	6.16				7.63
06-May-89	0.26	0.82	0.00	88.63	103.99	15.36	409.0	4047.0	-14.62	7.27				8.46
07-May-89	0.30	0.82	0.10	88.65	103.95	15.30	408.2	4032.4	-14.59	8.37	3.40	0.16		7.33
08-May-89	0.39	0.82	0.00	88.54	103.92	15.38	407.5	4017.9	-14.57	10.86				9.76
09-May-89	0.24	0.82	0.00	88.49	103.88	15.39	406.7	4003.3	-14.54	6.67				3.68
10-May-89	0.31	0.82	0.00	88.57	103.85	15.28	406.0	3988.8	-14.51	8.60				7.84
11-May-89	0.16	0.82	0.30	88.65	103.81	15.16	405.2	3974.3	-14.49	4.43	10.13	0.48		5.89
12-May-89	0.27	0.82	0.00	88.55	103.78	15.23	404.6	3961.6	-12.73	7.46				18.91
13-May-89	0.32	0.82	0.00	88.44	103.75	15.31	403.9	3948.9	-12.71	8.83				5.24
14-May-89	0.16	0.82	0.00	88.31	103.72	15.41	403.3	3936.2	-12.68	4.41				3.85
15-May-89	0.28	0.82	0.00	88.15	103.68	15.54	402.6	3923.6	-12.66	7.70				8.25
16-May-89	0.31	0.82	0.00	88.07	103.65	15.59	401.9	3910.9	-12.64	8.51				4.94
17-May-89	0.31	0.82	0.00	87.95	103.62	15.67	401.3	3898.3	-12.62	8.50				4.11
18-May-89	0.32	0.82	0.00	87.83	103.59	15.76	400.6	3885.7	-12.60	8.76				4.10
19-May-89	0.31	0.82	0.00	87.84	103.56	15.72	400.1	3875.4	-10.30	8.48				1.53
20-May-89	0.19	0.82	0.00	87.79	103.54	15.75	399.5	3865.1	-10.28	5.19				1.81
21-May-89	0.20	0.82	0.02	87.84	103.51	15.67	399.0	3854.8	-10.27	5.45	0.67	0.03		5.08

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 1920		Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)		
22-May-89	0.25	0.82	0.74	88.12	103.49	15.37	398.5	3844.6	-10.25	6.81	24.57	1.18	5.50
23-May-89	0.22	0.82	0.00	88.02	103.46	15.44	397.9	3834.4	-10.24	5.98			29.19
24-May-89	0.23	0.82	0.00	88.00	103.44	15.43	397.4	3824.1	-10.23	6.25			4.24
25-May-89	0.16	0.82	0.10	87.95	103.41	15.46	396.9	3813.9	-10.21	4.34	3.31	0.16	3.97
26-May-89	0.23	0.82	0.00	87.71	103.38	15.66	396.2	3800.9	-13.03	6.23			12.16
27-May-89	0.28	0.82	0.00	87.63	103.34	15.71	395.5	3787.9	-13.01	7.57			6.78
28-May-89	0.33	0.82	0.00	87.60	103.31	15.71	394.8	3774.9	-12.98	8.90			5.42
29-May-89	0.36	0.82	0.00	87.58	103.28	15.70	394.1	3761.9	-12.96	9.69			4.06
30-May-89	0.25	0.82	0.05	87.56	103.25	15.69	393.4	3749.0	-12.94	6.72	1.64	0.08	3.24
31-May-89	0.30	0.82	0.00	87.55	103.21	15.66	392.7	3736.1	-12.92	8.05			7.91
01-Jun-89	0.35	0.85	0.00	87.23	103.18	15.95	392.0	3723.2	-12.89	9.72			4.84
02-Jun-89	0.34	0.85	0.00	87.13	103.17	16.04	391.9	3720.8	-2.35	9.44			-7.37
03-Jun-89	0.28	0.85	0.00	87.10	103.17	16.07	391.8	3718.5	-2.35	7.77			-7.09
04-Jun-89	0.33	0.85	0.00	87.02	103.16	16.14	391.7	3716.1	-2.35	9.16			-5.42
05-Jun-89	0.30	0.85	0.00	87.07	103.16	16.09	391.5	3713.8	-2.35	8.32			-6.81
06-Jun-89	0.27	0.85	0.00	87.39	103.15	15.76	391.4	3711.4	-2.35	7.49			-5.97
07-Jun-89	0.12	0.85	0.47	87.58	103.11	15.52	390.5	3693.8	-17.59	3.32	15.29	0.75	10.11
08-Jun-89	0.11	0.85	0.01	87.55	103.06	15.51	389.5	3676.3	-17.55	3.04	0.32	0.02	30.28
09-Jun-89	0.15	0.85	0.81	87.58	103.04	15.46	389.1	3668.0	-8.34	4.13	26.26	1.30	5.65
10-Jun-89	0.28	0.85	0.00	87.39	103.02	15.63	388.6	3659.6	-8.33	7.71			31.76
11-Jun-89	0.30	0.85	0.00	87.31	103.00	15.69	388.2	3651.3	-8.32	8.25			0.62
12-Jun-89	0.27	0.85	0.00	87.31	102.97	15.67	387.7	3643.0	-8.31	7.42			0.06
13-Jun-89	0.26	0.85	0.00	87.29	102.95	15.66	387.3	3634.7	-8.30	7.13			0.89
14-Jun-89	0.29	0.85	0.00	87.16	102.93	15.77	386.8	3626.4	-8.29	7.95			1.16
15-Jun-89	0.31	0.85	0.00	87.03	102.91	15.88	386.4	3618.1	-8.28	8.48			0.34
16-Jun-89	0.28	0.85	0.00	87.05	102.91	15.86	386.4	3618.1	0.00	7.66			-8.48
17-Jun-89	0.33	0.85	1.31	87.00	102.91	15.91	386.4	3618.1	0.00	9.03	42.18	2.10	-7.66
18-Jun-89	0.14	0.85	0.02	87.02	102.91	15.89	386.4	3618.1	0.00	3.83	0.64	0.03	35.24
19-Jun-89	0.40	0.85	0.94	87.24	102.91	15.67	386.4	3618.1	0.00	10.95	30.27	1.50	-3.16
20-Jun-89	0.31	0.85	0.09	87.31	102.91	15.60	386.4	3618.1	0.00	8.48	2.90	0.14	20.82
21-Jun-89	0.15	0.85	1.72	87.21	102.91	15.70	386.4	3618.1	0.00	4.11	55.38	2.75	-5.44
22-Jun-89	0.25	0.85	1.72	87.21	102.91	15.70	386.4	3618.1	0.00	6.84	55.38	2.75	54.03
23-Jun-89	0.32	0.85	0.00	87.23	102.88	15.65	385.8	3606.5	-11.58	8.74			62.87
24-Jun-89	0.13	0.85	0.70	87.29	102.85	15.56	385.1	3595.0	-11.56	3.55	22.47	1.12	2.82
25-Jun-89	0.15	0.85	0.00	87.26	102.82	15.56	384.5	3583.4	-11.54	4.09			31.58
26-Jun-89	0.21	0.85	0.00	87.24	102.79	15.55	383.9	3571.9	-11.53	5.71			7.44
27-Jun-89	0.25	0.85	0.00	87.22	102.76	15.54	383.2	3560.4	-11.51	6.79			5.80
28-Jun-89	0.30	0.85	0.00	87.21	102.73	15.52	382.6	3548.9	-11.49	8.13			4.70
29-Jun-89	0.25	0.85	2.20	87.20	102.70	15.50	382.0	3537.4	-11.47	6.76	70.03	3.52	3.34
30-Jun-89	0.18	0.85	0.67	87.21	102.74	15.53	382.8	3551.6	14.20	4.88	21.37	1.07	52.58
01-Jul-89	0.27	0.91	0.08	87.23	102.77	15.55	383.5	3565.9	14.23	7.85	2.56	0.13	3.33
02-Jul-89	0.18	0.91	0.27	87.29	102.81	15.52	384.3	3580.1	14.26	5.25	8.65	0.43	-19.43
03-Jul-89	0.21	0.91	0.02	87.29	102.85	15.56	385.1	3594.4	14.29	6.13	0.64	0.03	-10.46
04-Jul-89	0.23	0.91	0.00	87.29	102.89	15.59	385.9	3608.7	14.32	6.73			-19.78
05-Jul-89	0.14	0.91	0.00	87.21	102.92	15.71	386.7	3623.1	14.35	4.10			-21.08
06-Jul-89	0.25	0.91	0.00	87.05	102.96	15.91	387.4	3637.4	14.38	7.35			-18.48
07-Jul-89	0.20	0.91	0.00	86.97	102.96	15.99	387.4	3637.4	0.00	5.88			-7.35
08-Jul-89	0.24	0.91	0.00	86.95	102.96	16.01	387.4	3637.4	0.00	7.05			-5.88
09-Jul-89	0.30	0.91	0.00	86.94	102.96	16.02	387.4	3637.4	0.00	8.81			-7.05
10-Jul-89	0.30	0.91	0.00	86.94	102.96	16.02	387.4	3637.4	0.00	8.81			-8.81
11-Jul-89	0.23	0.91	0.00	86.86	102.96	16.10	387.4	3637.4	0.00	6.76			-8.81
12-Jul-89	0.36	0.91	0.00	86.81	102.96	16.15	387.4	3637.4	0.00	10.58			-6.76
13-Jul-89	0.31	0.91	0.17	86.89	102.96	16.07	387.4	3637.4	0.00	9.11	5.49	0.27	-10.58
14-Jul-89	0.17	0.91	0.00	87.07	102.94	15.87	386.9	3628.0	-9.40	4.99			6.06
15-Jul-89	0.13	0.91	0.01	87.00	102.91	15.91	386.4	3618.7	-9.39	3.81	0.32	0.02	4.40
16-Jul-89	0.17	0.91	0.00	87.02	102.89	15.87	385.9	3609.3	-9.38	4.97			5.91
17-Jul-89	0.17	0.91	0.00	87.02	102.86	15.84	385.4	3599.9	-9.37	4.97			4.39
18-Jul-89	0.22	0.91	0.00	86.99	102.84	15.85	384.9	3590.6	-9.35	6.42			4.39
19-Jul-89	0.21	0.91	0.05	86.99	102.81	15.83	384.4	3581.2	-9.34	6.12	1.60	0.08	2.92
20-Jul-89	0.11	0.91	0.51	87.07	102.79	15.72	383.9	3571.9	-9.33	3.20	16.31	0.82	4.89
21-Jul-89	0.17	0.91	0.25	86.99	102.77	15.79	383.5	3565.9	-6.03	4.94	7.99	0.40	19.96
22-Jul-89	0.34	0.91	1.86	86.87	102.76	15.89	383.2	3559.8	-6.02	9.88	59.40	2.98	9.47
23-Jul-89	0.25	0.91	0.72	86.89	102.74	15.85	382.9	3553.8	-6.02	7.26	22.97	1.15	58.51
24-Jul-89	0.16	0.91	0.01	86.91	102.73	15.82	382.6	3547.8	-6.01	4.64	0.32	0.02	22.88
25-Jul-89	0.21	0.91	0.00	86.87	102.71	15.84	382.2	3541.8	-6.01	6.09			1.70
26-Jul-89	0.29	0.91	0.00	86.87	102.70	15.82	381.9	3535.8	-6.00	8.40			-0.08
27-Jul-89	0.18	0.91	0.03	87.06	102.68	15.62	381.6	3529.8	-6.00	5.21	0.95	0.05	-2.40
28-Jul-89	0.31	0.91	0.00	86.89	102.67	15.78	381.3	3524.9	-4.90	8.96			0.70
29-Jul-89	0.39	0.91	0.00	86.79	102.65	15.86	381.0	3520.0	-4.90	11.27			-4.06
30-Jul-89	0.31	0.91	0.00	86.78	102.64	15.86	380.8	3515.1	-4.90	8.95			-6.37

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
31-Jul-89	0.14	0.91	0.00	86.70	102.63	15.93	380.5	3510.2	-4.89	4.04			-4.06	
01-Aug-89	0.31	0.91	0.00	86.66	102.62	15.95	380.2	3505.3	-4.89	8.94			0.85	
02-Aug-89	0.19	0.91	0.00	86.73	102.60	15.87	380.0	3500.4	-4.89	5.47			-4.05	
03-Aug-89	0.27	0.91	0.75	86.81	102.59	15.78	379.7	3495.5	-4.88	7.77	23.73	1.20	-0.59	
04-Aug-89	0.24	0.91	0.00	86.74	102.56	15.82	379.1	3485.6	-9.89	6.90			27.05	
05-Aug-89	0.30	0.91	0.00	86.70	102.54	15.84	378.6	3475.8	-9.88	8.61			2.98	
06-Aug-89	0.23	0.91	0.00	86.65	102.51	15.86	378.0	3465.9	-9.86	6.59			1.25	
07-Aug-89	0.30	0.91	0.00	86.50	102.49	15.98	377.5	3456.0	-9.85	8.59			3.26	
08-Aug-89	0.23	0.91	0.00	86.42	102.46	16.04	377.0	3446.2	-9.84	6.57			1.25	
09-Aug-89	0.20	0.91	0.23	86.39	102.43	16.04	376.4	3436.4	-9.82	5.71	7.21	0.37	3.25	5.38E-04
10-Aug-89	0.05	0.91	0.11	86.52	102.41	15.89	375.9	3426.6	-9.81	1.43	3.45	0.18	11.68	1.96E-03
11-Aug-89	0.12	0.91	0.50	86.60	102.38	15.78	375.3	3416.8	-9.79	3.42	15.64	0.80	11.99	2.02E-03
12-Aug-89	0.29	0.91	1.29	86.63	102.36	15.72	374.8	3407.0	-9.78	8.24	40.29	2.06	22.80	3.87E-03
13-Aug-89	0.10	0.91	0.13	86.68	102.33	15.65	374.2	3397.2	-9.76	2.84	4.05	0.21	43.87	7.49E-03
14-Aug-89	0.12	0.91	0.01	86.73	102.30	15.57	373.7	3387.5	-9.75	3.40	0.31	0.02	11.17	1.92E-03
15-Aug-89	0.24	0.91	0.88	86.71	102.28	15.57	373.1	3377.8	-9.74	6.79	27.36	1.41	6.66	1.15E-03
16-Aug-89	0.33	0.91	0.00	86.70	102.25	15.56	372.6	3368.0	-9.72	9.32			31.70	5.47E-03
17-Aug-89	0.18	0.91	0.01	86.60	102.23	15.63	372.0	3358.3	-9.71	5.08	0.31	0.02	0.38	6.59E-05
18-Aug-89	0.21	0.91	0.00	86.50	102.20	15.70	371.5	3348.6	-9.69	5.92			4.94	8.47E-04
19-Aug-89	0.25	0.91	0.00	86.47	102.17	15.70	370.9	3339.0	-9.68	7.03			3.76	6.46E-04
20-Aug-89	0.18	0.91	0.10	86.57	102.15	15.58	370.4	3329.3	-9.66	5.06	3.09	0.16	2.63	4.56E-04
21-Aug-89	0.20	0.91	0.31	86.62	102.12	15.51	369.9	3319.6	-9.65	5.61	9.55	0.50	7.84	1.37E-03
22-Aug-89	0.24	0.91	0.20	86.60	102.09	15.50	369.3	3310.0	-9.64	6.72	6.16	0.32	14.08	2.46E-03
23-Aug-89	0.34	0.91	1.40	86.58	102.07	15.49	368.8	3300.4	-9.62	9.51	43.02	2.24	9.38	1.64E-03
24-Aug-89	0.28	0.91	0.00	86.55	102.04	15.49	368.2	3290.8	-9.61	7.82			45.36	7.95E-03
25-Aug-89	0.32	0.91	0.49	86.66	102.02	15.35	367.7	3281.2	-9.59	8.92	15.01	0.78	1.77	3.14E-04
26-Aug-89	0.17	0.91	0.06	86.63	101.99	15.36	367.1	3271.6	-9.58	4.73	1.84	0.10	16.45	2.92E-03
27-Aug-89	0.25	0.91	0.60	86.60	101.96	15.37	366.6	3262.0	-9.56	6.95	18.33	0.96	6.76	1.20E-03
28-Aug-89	0.24	0.91	0.74	86.57	101.94	15.37	366.0	3252.5	-9.55	6.66	22.57	1.18	21.89	3.89E-03
29-Aug-89	0.26	0.91	0.00	86.58	101.91	15.33	365.5	3243.0	-9.54	7.21			26.63	4.75E-03
30-Aug-89	0.27	0.91	0.00	86.58	101.89	15.30	364.9	3233.4	-9.52	7.47			2.32	4.15E-04
31-Aug-89	0.22	0.91	0.00	86.52	101.86	15.34	364.4	3223.9	-9.51	6.08			2.04	3.64E-04
01-Sep-89	0.31	0.85	1.27	86.62	101.87	15.25	364.6	3227.6	3.65	8.01	38.59	2.03	-9.72	
02-Sep-89	0.26	0.85	0.23	86.62	101.88	15.26	364.8	3231.2	3.65	6.72	6.99	0.37	28.97	5.20E-03
03-Sep-89	0.27	0.85	1.63	86.60	101.89	15.29	365.0	3234.9	3.65	6.98	49.58	2.61	-3.01	
04-Sep-89	0.19	0.85	0.24	86.58	101.90	15.32	365.2	3238.5	3.65	4.92	7.30	0.38	41.56	7.43E-03
05-Sep-89	0.15	0.85	0.13	86.63	101.91	15.28	365.4	3242.2	3.65	3.88	3.96	0.21	-0.88	
06-Sep-89	0.29	0.85	0.55	86.66	101.92	15.26	365.7	3245.8	3.66	7.51	16.76	0.88	-3.37	
07-Sep-89	0.18	0.85	0.00	86.73	101.93	15.20	365.9	3249.5	3.66	4.66			6.47	1.16E-03
08-Sep-89	0.14	0.85	0.33	86.79	101.90	15.11	365.2	3238.0	-11.49	3.62	10.04	0.53	6.82	1.24E-03
09-Sep-89	0.19	0.85	0.28	86.79	101.87	15.07	364.5	3226.5	-11.47	4.91	8.51	0.45	18.42	3.35E-03
10-Sep-89	0.23	0.85	0.00	86.76	101.84	15.08	363.9	3215.1	-11.45	5.93			15.50	2.82E-03
11-Sep-89	0.21	0.85	0.00	86.76	101.80	15.04	363.2	3203.7	-11.43	5.40			5.50	1.01E-03
12-Sep-89	0.21	0.85	0.00	86.73	101.77	15.04	362.6	3192.2	-11.41	5.39			6.00	1.10E-03
13-Sep-89	0.23	0.85	0.00	86.78	101.74	14.96	361.9	3180.9	-11.39	5.90			5.99	1.11E-03
14-Sep-89	0.17	0.85	0.00	86.81	101.71	14.90	361.3	3169.5	-11.36	4.35			5.47	1.02E-03
15-Sep-89	0.18	0.85	0.01	86.84	101.71	14.87	361.3	3171.0	1.55	4.61	0.30	0.02	-5.90	
16-Sep-89	0.22	0.85	0.42	86.83	101.72	14.89	361.4	3172.6	1.55	5.63	12.65	0.67	-5.84	
17-Sep-89	0.13	0.85	0.55	87.00	101.72	14.72	361.5	3174.1	1.55	3.33	16.57	0.88	6.14	1.15E-03
18-Sep-89	0.11	0.85	0.33	87.16	101.73	14.56	361.6	3175.7	1.55	2.82	9.94	0.53	12.57	2.39E-03
19-Sep-89	0.21	0.85	0.00	87.03	101.73	14.70	361.7	3177.2	1.55	5.38			6.10	1.15E-03
20-Sep-89	0.23	0.85	0.00	86.99	101.74	14.75	361.8	3178.8	1.55	5.89			-6.93	
21-Sep-89	0.22	0.85	0.00	87.05	101.74	14.69	361.9	3180.3	1.55	5.64			-7.45	
22-Sep-89	0.23	0.85	0.00	87.00	101.74	14.73	361.8	3179.1	-1.21	5.89			-4.43	
23-Sep-89	0.06	0.85	0.75	87.03	101.73	14.70	361.7	3177.9	-1.21	1.54		1.20	-4.69	
24-Sep-89	0.06	0.85	0.32	87.00	101.73	14.73	361.7	3176.7	-1.21	1.54	9.64	0.51	23.48	4.41E-03
25-Sep-89	0.10	0.85	0.42	87.12	101.73	14.61	361.6	3175.5	-1.21	2.56	12.66	0.67	9.83	1.86E-03
26-Sep-89	0.01	0.85	0.26	87.12	101.72	14.61	361.5	3174.3	-1.21	0.26	7.83	0.42	11.97	2.27E-03
27-Sep-89	0.08	0.85	0.02	86.72	101.72	15.00	361.5	3173.1	-1.21	2.05	0.60	0.03	9.20	1.70E-03
28-Sep-89	0.15	0.85	0.00	87.02	101.71	14.69	361.2	3167.9	-5.22	3.84			3.81	7.17E-04
29-Sep-89	0.16	0.85	0.38	87.08	101.69	14.61	360.9	3162.7	-5.21	4.09	11.43	0.61	1.38	2.61E-04
30-Sep-89	0.18	0.85	0.00	87.07	101.68	14.61	360.6	3157.5	-5.21	4.60			13.16	2.50E-03
01-Oct-89	0.24	0.76	0.57	87.12	101.66	14.55	360.3	3152.3	-5.21	5.48	17.11	0.91	0.61	1.16E-04
02-Oct-89	0.21	0.76	1.30	87.15	101.65	14.50	360.0	3147.1	-5.20	4.79	39.00	2.08	17.75	3.40E-03
03-Oct-89	0.18	0.76	0.00	87.12	101.63	14.52	359.7	3141.9	-5.20	4.10			41.49	7.95E-03
04-Oct-89	0.15	0.76	0.00	87.12	101.62	14.50	359.3	3136.7	-5.19	3.41			1.09	2.10E-04
05-Oct-89	0.20	0.76	0.00	87.03	101.60	14.57	359.0	3131.5	-5.19	4.55			1.77	3.39E-04
06-Oct-89	0.19	0.76	0.00	87.00	101.59	14.59	358.7	3126.3	-5.18	4.32			0.64	1.22E-04
07-Oct-89	0.21	0.76	0.00	87.03	101.54	14.50	357.6	3106.6	-19.70	4.76			15.38	2.97E-03
08-Oct-89	0.26	0.76	0.25	87.12	101.48	14.36	356.4	3087.0	-19.64	5.87	7.43	0.40	14.88	2.91E-03

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01		Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			
										Drain. Area (ac) = 1920				
09-Oct-89	0.18	0.76	0.00	87.02	101.43	14.41	355.3	3067.4	-19.57	4.05			21.53	4.21E-03
10-Oct-89	0.11	0.76	0.00	87.08	101.37	14.29	354.1	3047.9	-19.51	2.47			15.46	3.06E-03
11-Oct-89	0.07	0.76	0.00	87.02	101.33	14.31	353.2	3032.0	-15.92	1.57			13.45	2.86E-03
12-Oct-89	0.13	0.76	0.05	86.92	101.28	14.36	352.3	3016.1	-15.87	2.90	1.47	0.08	14.31	2.83E-03
13-Oct-89	0.13	0.76	0.00	86.92	101.26	14.34	351.8	3008.5	-7.54	2.90			6.19	1.23E-03
14-Oct-89	0.16	0.76	0.00	86.91	101.24	14.33	351.4	3001.0	-7.53	3.56			4.64	9.21E-04
15-Oct-89	0.16	0.76	0.00	86.83	101.22	14.39	350.9	2993.5	-7.52	3.56			3.96	7.85E-04
16-Oct-89	0.08	0.76	0.00	86.79	101.19	14.40	350.5	2986.0	-7.51	1.78			3.96	7.84E-04
17-Oct-89	0.19	0.76	0.00	86.78	101.17	14.40	350.0	2978.5	-7.51	4.21			5.73	1.14E-03
18-Oct-89	0.15	0.76	0.27	86.86	101.15	14.29	349.6	2971.0	-7.50	3.32	7.87	0.43	3.28	6.57E-04
19-Oct-89	0.16	0.76	0.66	86.81	101.13	14.32	349.1	2963.5	-7.49	3.54	19.20	1.06	12.46	2.49E-03
20-Oct-89	0.14	0.76	0.02	86.65	101.09	14.44	348.3	2950.0	-13.45	3.09	0.58	0.03	30.17	6.00E-03
21-Oct-89	0.15	0.76	0.00	86.52	101.05	14.53	347.5	2936.6	-13.42	3.30			10.94	2.17E-03
22-Oct-89	0.13	0.76	0.00	86.52	101.01	14.50	346.7	2923.2	-13.39	2.85			10.09	2.01E-03
23-Oct-89	0.14	0.76	0.00	86.57	100.98	14.41	345.9	2909.9	-13.36	3.07			10.50	2.11E-03
24-Oct-89	0.15	0.76	0.00	86.57	100.94	14.37	345.1	2896.5	-13.33	3.28			10.26	2.07E-03
25-Oct-89	0.17	0.76	0.00	86.60	100.90	14.30	344.3	2883.2	-13.29	3.71			10.02	2.03E-03
26-Oct-89	0.20	0.76	0.00	86.57	100.86	14.29	343.5	2870.0	-13.26	4.35			9.56	1.95E-03
27-Oct-89	0.11	0.76	0.00	86.60	100.76	14.16	341.4	2836.7	-33.27	2.38			28.92	5.98E-03
28-Oct-89	0.14	0.76	0.00	86.57	100.67	14.10	339.4	2803.6	-33.07	3.01			30.69	6.41E-03
29-Oct-89	0.22	0.76	0.00	86.65	100.57	13.92	337.4	2770.8	-32.87	4.70			29.86	6.36E-03
30-Oct-89	0.20	0.76	0.00	86.50	100.47	13.97	335.3	2738.1	-32.67	4.25			27.97	5.97E-03
31-Oct-89	0.01	0.76	0.00	86.50	100.37	13.87	333.3	2705.6	-32.48	0.21			28.23	6.11E-03
01-Nov-89	0.08	0.71	0.00	86.41	100.28	13.87	331.3	2673.3	-32.28	1.57			32.07	6.98E-03
02-Nov-89	0.12	0.71	0.00	86.41	100.18	13.77	329.2	2641.3	-32.08	2.34			30.51	6.73E-03
03-Nov-89	0.16	0.71	0.00	86.34	100.20	13.86	329.7	2648.4	7.14	3.12			-9.48	
04-Nov-89	0.09	0.71	0.00	86.20	100.22	14.03	330.1	2655.6	7.15	1.76			-10.27	
05-Nov-89	0.12	0.71	0.00	86.13	100.25	14.11	330.6	2662.7	7.16	2.35			-8.92	
06-Nov-89	0.15	0.71	0.00	86.20	100.27	14.07	331.0	2669.9	7.17	2.94			-9.51	
07-Nov-89	0.12	0.71	0.00	86.23	100.29	14.06	331.5	2677.1	7.18	2.35			-10.12	
08-Nov-89	0.13	0.71	0.00	86.29	100.31	14.02	331.9	2684.2	7.19	2.55			-9.54	
09-Nov-89	0.13	0.71	1.02	86.36	100.33	13.97	332.4	2691.4	7.20	2.56	28.25	1.63	-9.75	
10-Nov-89	0.07	0.71	0.03	86.26	100.35	14.09	332.8	2698.6	7.21	1.38	0.83	0.05	20.12	4.29E-03
11-Nov-89	0.12	0.71	0.00	86.15	100.38	14.23	333.3	2705.9	7.22	2.37			-7.72	
12-Nov-89	0.13	0.71	0.00	86.12	100.40	14.28	333.8	2713.1	7.23	2.57			-9.59	
13-Nov-89	0.11	0.71	0.00	86.13	100.42	14.29	334.2	2720.3	7.24	2.18			-9.80	
14-Nov-89	0.14	0.71	0.00	86.21	100.44	14.23	334.7	2727.6	7.25	2.77			-9.42	
15-Nov-89	0.05	0.71	0.00	86.32	100.42	14.09	334.2	2720.0	-7.52	0.99			4.75	1.01E-03
16-Nov-89	0.08	0.71	0.09	86.37	100.40	14.02	333.7	2712.5	-7.51	1.58	2.50	0.14	6.53	1.39E-03
17-Nov-89	0.13	0.71	0.00	86.24	100.37	14.13	333.3	2705.0	-7.50	2.56			8.57	1.82E-03
18-Nov-89	0.10	0.71	0.00	86.03	100.35	14.32	332.8	2697.5	-7.49	1.97			4.93	1.03E-03
19-Nov-89	0.08	0.71	0.00	85.97	100.33	14.36	332.3	2690.1	-7.48	1.57			5.51	1.16E-03
20-Nov-89	0.08	0.71	0.00	86.12	100.31	14.19	331.8	2682.6	-7.47	1.57			5.90	1.25E-03
21-Nov-89	0.14	0.71	0.00	86.24	100.28	14.04	331.4	2675.1	-7.46	2.74			5.89	1.27E-03
22-Nov-89	0.09	0.71	0.00	86.23	100.26	14.03	330.9	2667.7	-7.45	1.76			4.71	1.01E-03
23-Nov-89	0.07	0.71	0.62	86.20	100.24	14.04	330.4	2660.2	-7.44	1.37	17.07	0.99	5.68	1.22E-03
24-Nov-89	0.09	0.71	0.00	85.97	100.22	14.25	330.0	2652.8	-7.43	1.76			24.12	5.13E-03
25-Nov-89	0.11	0.71	0.00	86.05	100.19	14.14	329.5	2645.4	-7.42	2.14			5.66	1.22E-03
26-Nov-89	0.07	0.71	0.05	86.16	100.17	14.01	329.0	2638.0	-7.41	1.36	1.37	0.08	5.26	1.14E-03
27-Nov-89	0.10	0.71	0.00	86.16	100.15	13.98	328.5	2630.6	-7.40	1.94			7.49	1.63E-03
28-Nov-89	0.04	0.71	0.00	85.97	100.13	14.16	328.1	2623.2	-7.39	0.78			5.44	1.17E-03
29-Nov-89	0.07	0.71	0.00	86.12	100.10	13.99	327.6	2615.8	-7.38	1.36			6.60	1.44E-03
30-Nov-89	0.21	0.71	0.00	85.91	100.08	14.17	327.1	2608.4	-7.37	4.06			6.01	1.30E-03
01-Dec-89	0.10	0.83	0.00	85.95	100.06	14.10	326.7	2601.1	-7.36	2.26			3.29	7.14E-04
02-Dec-89	0.11	0.83	0.00	85.97	100.04	14.07	326.2	2593.7	-7.34	2.48			5.09	1.11E-03
03-Dec-89	0.17	0.83	0.00	85.97	100.01	14.04	325.7	2586.4	-7.33	3.83			4.85	1.06E-03
04-Dec-89	0.13	0.83	0.00	85.89	99.99	14.10	325.2	2579.1	-7.32	2.92			3.49	7.62E-04
05-Dec-89	0.09	0.83	0.00	85.95	99.97	14.01	324.8	2571.8	-7.31	2.02			4.39	9.64E-04
06-Dec-89	0.11	0.83	0.00	85.99	99.95	13.96	324.3	2564.5	-7.30	2.47			5.28	1.17E-03
07-Dec-89	0.08	0.83	0.00	85.89	99.92	14.03	323.8	2557.2	-7.29	1.79			4.82	1.06E-03
08-Dec-89	0.11	0.83	0.00	86.08	99.90	13.82	323.4	2549.9	-7.28	2.46			5.49	1.23E-03
09-Dec-89	0.13	0.83	1.67	86.12	99.89	13.78	323.2	2547.1	-2.77	2.91	44.98	2.67	0.31	6.98E-05
10-Dec-89	0.15	0.83	0.02	85.87	99.88	14.01	323.0	2544.4	-2.77	3.35	0.54	0.03	47.51	1.05E-02
11-Dec-89	0.04	0.83	0.00	85.89	99.87	13.98	322.8	2541.6	-2.77	0.89			-0.01	
12-Dec-89	0.08	0.83	0.00	86.05	99.87	13.82	322.6	2538.8	-2.77	1.79			1.87	4.20E-04
13-Dec-89	0.15	0.83	0.27	85.94	99.86	13.92	322.5	2536.1	-2.76	3.35	7.26	0.43	0.98	2.18E-04
14-Dec-89	0.09	0.83	0.00	85.63	99.85	14.22	322.3	2533.3	-2.76	2.01			7.11	1.55E-03
15-Dec-89	0.09	0.83	0.00	85.78	99.84	14.06	322.1	2530.5	-2.76	2.01			0.76	1.67E-04
16-Dec-89	0.06	0.83	0.25	85.79	99.83	14.03	321.8	2525.7	-4.83	1.34	6.70	0.40	2.82	6.25E-04
17-Dec-89	0.09	0.83	0.01	85.66	99.81	14.15	321.5	2520.9	-4.82	2.00	0.27	0.02	10.59	2.33E-03

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01		Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Drain. Area (ac) = 1920				
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			
18-Dec-89	0.05	0.83	0.05	85.70	99.80	14.10	321.2	2516.1	-4.82	1.11	1.34	0.08	3.10	6.85E-04
19-Dec-89	0.01	0.83	0.43	85.78	99.78	14.00	320.8	2511.2	-4.82	0.22	11.50	0.69	5.12	1.14E-03
20-Dec-89	0.01	0.83	0.64	85.74	99.77	14.02	320.6	2507.4	-3.85	0.22	17.10	1.02	15.81	3.52E-03
21-Dec-89	0.04	0.83	0.00	85.70	99.76	14.06	320.3	2503.6	-3.85	0.89			21.75	4.83E-03
22-Dec-89	0.07	0.83	0.00	85.57	99.74	14.18	320.1	2499.7	-3.84	1.55			2.96	6.51E-04
23-Dec-89	0.05	0.83	0.36	85.37	99.73	14.36	319.8	2495.9	-3.84	1.11	9.60	0.58	2.29	4.99E-04
24-Dec-89	0.05	0.83	0.27	85.20	99.72	14.52	319.6	2492.0	-3.84	1.11	7.19	0.43	12.90	2.78E-03
25-Dec-89	0.05	0.83	0.05	85.07	99.71	14.64	319.3	2488.2	-3.83	1.10	1.33	0.08	10.35	2.21E-03
26-Dec-89	0.08	0.83	0.00	85.07	99.70	14.63	319.1	2484.4	-3.83	1.77			4.14	8.86E-04
27-Dec-89	0.08	0.83	0.00	85.20	99.68	14.49	318.8	2480.5	-3.83	1.76			2.06	4.46E-04
28-Dec-89	0.10	0.83	0.00	85.45	99.67	14.22	318.6	2476.7	-3.82	2.20			2.06	4.55E-04
29-Dec-89	0.07	0.83	0.00	85.39	99.66	14.27	318.3	2472.9	-3.82	1.54			1.62	3.56E-04
30-Dec-89	0.07	0.83	0.00	85.44	99.65	14.21	318.1	2469.1	-3.82	1.54			2.28	5.04E-04
31-Dec-89	0.11	0.83	0.00	85.55	99.64	14.09	317.8	2465.3	-3.82	2.42			2.28	5.08E-04
01-Jan-90	0.15	0.77	0.25	85.49	99.62	14.14	317.6	2461.4	-3.81	3.06	6.62	0.40	1.39	3.11E-04
02-Jan-90	0.16	0.77	0.00	85.29	99.61	14.32	317.3	2457.6	-3.81	3.26			7.77	1.71E-03
03-Jan-90	0.12	0.77	0.00	85.41	99.60	14.19	317.1	2453.8	-3.81	2.44			0.55	1.22E-04
04-Jan-90	0.10	0.77	0.00	85.45	99.59	14.14	317.0	2452.0	-1.81	2.03			-0.63	
05-Jan-90	0.05	0.77	0.00	85.52	99.59	14.07	316.8	2450.2	-1.81	1.02			-0.22	
06-Jan-90	0.05	0.77	0.00	85.58	99.58	14.00	316.7	2448.4	-1.81	1.02			0.79	1.79E-04
07-Jan-90	0.03	0.77	0.57	85.65	99.58	13.93	316.6	2446.6	-1.81	0.61	15.04	0.91	0.79	1.80E-04
08-Jan-90	0.07	0.77	0.46	85.63	99.57	13.94	316.5	2444.8	-1.81	1.42	12.13	0.74	17.15	3.89E-03
09-Jan-90	0.15	0.77	0.00	85.41	99.57	14.16	316.4	2443.0	-1.81	3.04			13.25	2.96E-03
10-Jan-90	0.06	0.77	0.00	85.45	99.56	14.11	316.2	2441.2	-1.81	1.22			-1.24	
11-Jan-90	0.09	0.77	0.00	85.47	99.53	14.06	315.6	2432.1	-9.03	1.82			7.81	1.76E-03
12-Jan-90	0.10	0.77	0.00	85.55	99.50	13.95	315.0	2423.1	-9.01	2.02			7.19	1.64E-03
13-Jan-90	0.23	0.77	0.00	85.24	99.47	14.23	314.4	2414.1	-8.99	4.64			6.97	1.56E-03
14-Jan-90	0.13	0.77	0.00	85.15	99.45	14.30	313.8	2405.2	-8.98	2.62			4.34	9.66E-04
15-Jan-90	0.10	0.77	0.00	85.20	99.42	14.22	313.2	2396.2	-8.96	2.01			6.34	1.42E-03
16-Jan-90	0.13	0.77	0.00	85.20	99.39	14.19	312.6	2387.3	-8.94	2.61			6.93	1.56E-03
17-Jan-90	0.13	0.77	0.00	85.26	99.36	14.10	312.0	2378.3	-8.92	2.60			6.32	1.44E-03
18-Jan-90	0.11	0.77	0.00	85.31	99.35	14.05	311.9	2376.6	-1.78	2.20			-0.82	
19-Jan-90	0.10	0.77	0.00	85.36	99.35	13.99	311.8	2374.8	-1.78	2.00			-0.42	
20-Jan-90	0.13	0.77	0.00	85.34	99.34	14.00	311.7	2373.0	-1.78	2.60			-0.22	
21-Jan-90	0.15	0.77	0.00	85.37	99.34	13.96	311.6	2371.2	-1.78	3.00			-0.82	
22-Jan-90	0.08	0.77	0.00	85.36	99.33	13.97	311.5	2369.4	-1.78	1.60			-1.22	
23-Jan-90	0.15	0.77	0.00	85.29	99.33	14.03	311.3	2367.6	-1.78	3.00			0.18	4.14E-05
24-Jan-90	0.13	0.77	0.00	85.32	99.32	14.00	311.2	2365.9	-1.78	2.60			-1.22	
25-Jan-90	0.12	0.77	0.00	85.39	99.18	13.79	308.3	2322.5	-43.37	2.37			40.77	9.59E-03
26-Jan-90	0.20	0.77	0.21	85.21	99.17	13.96	308.1	2320.4	-2.05	3.95	5.39	0.34	-0.32	
27-Jan-90	0.15	0.77	0.00	84.95	99.17	14.21	308.0	2318.4	-2.05	2.96			3.83	8.74E-04
28-Jan-90	0.13	0.77	0.00	85.21	99.16	13.95	307.9	2316.3	-2.05	2.57			-0.91	
29-Jan-90	0.12	0.77	0.00	85.49	99.15	13.67	307.7	2314.3	-2.05	2.37			-0.52	
30-Jan-90	0.11	0.77	0.00	85.42	99.15	13.73	307.6	2312.2	-2.05	2.17			-0.32	
31-Jan-90	0.09	0.77	0.39	85.35	99.14	13.79	307.4	2310.2	-2.05	1.78	9.99	0.62	-0.12	
01-Feb-90	0.12	0.69	0.00	85.24	99.11	13.87	306.8	2301.0	-9.21	2.12			18.05	4.24E-03
02-Feb-90	0.09	0.69	0.00	85.23	99.08	13.85	306.2	2291.8	-9.20	1.58			7.08	1.67E-03
03-Feb-90	0.13	0.69	0.00	85.23	99.05	13.82	305.6	2282.6	-9.18	2.28			7.59	1.80E-03
04-Feb-90	0.16	0.69	0.00	85.28	99.02	13.74	304.9	2273.4	-9.16	2.81			6.87	1.64E-03
05-Feb-90	0.20	0.69	0.00	85.20	98.99	13.79	304.3	2264.3	-9.14	3.50			6.33	1.51E-03
06-Feb-90	0.22	0.69	0.00	85.02	98.96	13.94	303.7	2255.2	-9.12	3.84			5.62	1.33E-03
07-Feb-90	0.10	0.69	0.00	85.07	99.00	13.93	304.5	2267.3	12.16	1.75			-16.01	
08-Feb-90	0.14	0.69	0.00	85.05	98.97	13.92	304.0	2259.5	-7.82	2.45			6.07	1.43E-03
09-Feb-90	0.12	0.69	0.00	85.07	98.95	13.88	303.4	2251.7	-7.81	2.09			5.36	1.27E-03
10-Feb-90	0.16	0.69	0.00	85.18	98.92	13.74	302.9	2243.9	-7.80	2.79			5.70	1.37E-03
11-Feb-90	0.07	0.69	0.89	85.23	98.90	13.67	302.4	2236.1	-7.78	1.22	22.42	1.42	5.00	1.21E-03
12-Feb-90	0.15	0.69	0.00	85.05	98.87	13.82	301.8	2228.4	-7.77	2.60			30.40	7.29E-03
13-Feb-90	0.18	0.69	0.00	84.92	98.85	13.92	301.3	2220.6	-7.75	3.12			5.15	1.23E-03
14-Feb-90	0.15	0.69	0.00	84.94	98.82	13.88	300.7	2212.9	-7.74	2.59			4.62	1.11E-03
15-Feb-90	0.15	0.69	0.00	84.95	98.83	13.88	300.9	2215.5	2.58	2.60			-5.17	
16-Feb-90	0.17	0.69	0.00	85.02	98.84	13.82	301.1	2218.0	2.58	2.94			-5.18	
17-Feb-90	0.16	0.69	0.47	85.03	98.85	13.81	301.3	2220.6	2.58	2.77	11.80	0.75	-5.53	
18-Feb-90	0.17	0.69	0.13	85.03	98.85	13.82	301.5	2223.2	2.58	2.95	3.27	0.21	7.20	1.73E-03
19-Feb-90	0.00	0.69	0.01	85.16	98.86	13.70	301.6	2225.8	2.58	0.00	0.25	0.02	-2.06	
20-Feb-90	0.16	0.69	0.15	85.13	98.87	13.74	301.8	2228.4	2.59	2.78	3.77	0.24	-2.32	
21-Feb-90	0.05	0.69	0.00	85.16	98.88	13.72	302.0	2231.0	2.59	0.87			-1.35	
22-Feb-90	0.02	0.69	0.00	85.28	98.88	13.61	302.1	2231.8	0.86	0.35			-1.73	
23-Feb-90	0.18	0.69	1.07	85.47	98.89	13.42	302.1	2232.7	0.86	3.13	26.94	1.71	-1.21	
24-Feb-90	0.14	0.69	0.14	85.36	98.89	13.53	302.2	2233.5	0.86	2.43	3.53	0.22	24.66	6.03E-03
25-Feb-90	0.18	0.69	0.00	85.23	98.89	13.66	302.2	2234.4	0.86	3.13			0.45	1.10E-04

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

											Runoff Coeff. = 0.01		Drain. Area (ac) = 1920			
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
26-Feb-90	0.21	0.69	0.00	85.15	98.89	13.75	302.3	2235.3	0.86	3.65			-3.99			
27-Feb-90	0.15	0.69	0.00	85.16	98.90	13.73	302.4	2236.1	0.86	2.61			-4.51			
28-Feb-90	0.16	0.69	0.00	85.29	98.90	13.61	302.4	2237.0	0.86	2.78			-3.47			
01-Mar-90	0.12	0.73	0.00	85.37	98.88	13.51	302.0	2231.0	-6.04	2.20			3.26	8.00E-04		
02-Mar-90	0.18	0.73	0.00	85.55	98.86	13.31	301.6	2224.9	-6.04	3.30			3.83	9.55E-04		
03-Mar-90	0.13	0.73	0.43	85.74	98.84	13.10	301.2	2218.9	-6.03	2.38	10.79	0.69	2.73	6.91E-04		
04-Mar-90	0.18	0.73	0.00	85.65	98.82	13.17	300.7	2212.9	-6.02	3.29			15.12	3.82E-03		
05-Mar-90	0.15	0.73	0.00	85.52	98.80	13.28	300.3	2206.9	-6.01	2.74			2.72	6.81E-04		
06-Mar-90	0.18	0.73	0.00	85.45	98.78	13.33	299.9	2200.9	-6.00	3.28			3.26	8.16E-04		
07-Mar-90	0.19	0.73	0.00	85.42	98.76	13.34	299.5	2194.9	-5.99	3.46			2.71	6.78E-04		
08-Mar-90	0.16	0.73	0.04	85.36	98.73	13.37	298.9	2186.3	-8.55	2.91	1.00	0.06	5.09	1.27E-03		
09-Mar-90	0.18	0.73	0.00	85.37	98.70	13.33	298.3	2177.8	-8.53	3.27			6.68	1.68E-03		
10-Mar-90	0.17	0.73	0.00	85.34	98.67	13.33	297.7	2169.3	-8.51	3.08			5.25	1.32E-03		
11-Mar-90	0.13	0.73	0.00	85.24	98.65	13.40	297.1	2160.8	-8.50	2.35			5.42	1.36E-03		
12-Mar-90	0.22	0.73	0.00	85.24	98.62	13.37	296.5	2152.3	-8.48	3.97			6.13	1.55E-03		
13-Mar-90	0.21	0.73	0.00	85.24	98.59	13.34	295.9	2143.8	-8.46	3.78			4.50	1.14E-03		
14-Mar-90	0.23	0.73	0.00	85.24	98.56	13.32	295.3	2135.4	-8.45	4.13			4.67	1.19E-03		
15-Mar-90	0.23	0.73	0.00	85.24	98.54	13.30	294.9	2130.3	-5.06	4.13			0.93	2.37E-04		
16-Mar-90	0.19	0.73	0.00	85.24	98.53	13.28	294.6	2125.3	-5.05	3.40			0.93	2.37E-04		
17-Mar-90	0.19	0.73	0.00	85.24	98.51	13.26	294.2	2120.2	-5.05	3.40			1.64	4.21E-04		
18-Mar-90	0.14	0.73	0.58	85.23	98.49	13.26	293.9	2115.2	-5.04	2.50	14.20	0.93	1.64	4.21E-04		
19-Mar-90	0.19	0.73	0.00	85.23	98.47	13.25	293.5	2110.1	-5.03	3.39			17.66	4.54E-03		
20-Mar-90	0.20	0.73	0.00	85.20	98.46	13.26	293.1	2105.1	-5.03	3.57			1.64	4.21E-04		
21-Mar-90	0.22	0.73	0.00	84.99	98.44	13.45	292.8	2100.1	-5.02	3.92			1.46	3.70E-04		
22-Mar-90	0.18	0.73	0.00	84.84	98.40	13.56	291.9	2088.4	-11.70	3.20			7.78	1.96E-03		
23-Mar-90	0.18	0.73	0.00	84.97	98.36	13.39	291.1	2076.7	-11.66	3.19			8.46	2.17E-03		
24-Mar-90	0.19	0.73	0.00	84.97	98.33	13.36	290.5	2068.0	-8.72	3.36			5.54	1.43E-03		
25-Mar-90	0.20	0.73	0.00	84.94	98.30	13.36	289.9	2059.3	-8.71	3.53			5.35	1.38E-03		
26-Mar-90	0.19	0.73	0.00	84.89	98.27	13.38	289.2	2050.6	-8.69	3.34			5.16	1.33E-03		
27-Mar-90	0.20	0.73	0.00	84.79	98.24	13.45	288.6	2042.0	-8.67	3.51			5.32	1.37E-03		
28-Mar-90	0.18	0.73	0.00	84.86	98.21	13.35	288.0	2033.3	-8.65	3.15			5.14	1.34E-03		
29-Mar-90	0.22	0.73	1.09	84.86	98.18	13.32	287.3	2024.7	-8.63	3.85	26.10	1.74	5.48	1.43E-03		
30-Mar-90	0.18	0.73	0.00	84.86	98.18	13.32	287.3	2024.7	0.00	3.15			24.00	6.27E-03		
31-Mar-90	0.24	0.73	1.48	84.99	98.18	13.19	287.3	2024.7	0.00	4.20	35.44	2.37	-3.15			
01-Apr-90	0.14	0.84	0.00	84.99	98.18	13.19	287.3	2024.7	0.00	2.82			33.61	8.87E-03		
02-Apr-90	0.17	0.84	0.00	84.94	98.18	13.24	287.3	2024.7	0.00	3.42			-2.82			
03-Apr-90	0.21	0.84	2.11	85.10	98.18	13.08	287.3	2024.7	0.00	4.22	50.52	3.38	-3.42			
04-Apr-90	0.29	0.84	0.00	85.08	98.18	13.10	287.3	2024.7	0.00	5.83			49.68	1.32E-02		
05-Apr-90	0.24	0.84	0.00	84.97	98.14	13.17	286.6	2014.0	-10.66	4.81			4.83	1.28E-03		
06-Apr-90	0.21	0.84	0.00	84.97	98.11	13.14	285.8	2003.4	-10.63	4.20			5.82	1.55E-03		
07-Apr-90	0.25	0.84	0.00	84.87	98.07	13.20	285.0	1992.8	-10.60	4.99			6.40	1.70E-03		
08-Apr-90	0.21	0.84	0.00	84.63	98.03	13.40	284.2	1982.2	-10.57	4.18			5.58	1.47E-03		
09-Apr-90	0.27	0.84	0.00	84.57	97.99	13.43	283.5	1971.7	-10.54	5.36			6.36	1.67E-03		
10-Apr-90	0.21	0.84	0.00	84.60	97.96	13.36	282.7	1961.2	-10.51	4.16			5.16	1.37E-03		
11-Apr-90	0.19	0.84	0.01	84.79	97.92	13.13	281.9	1950.7	-10.49	3.75	0.23	0.02	6.33	1.71E-03		
12-Apr-90	0.21	0.84	0.00	84.71	97.89	13.18	281.3	1942.2	-8.45	4.13			4.95	1.34E-03		
13-Apr-90	0.26	0.84	0.00	84.58	97.86	13.28	280.6	1933.8	-8.43	5.11			4.29	1.15E-03		
14-Apr-90	0.25	0.84	0.00	84.53	97.83	13.30	280.0	1925.4	-8.41	4.90			3.30	8.87E-04		
15-Apr-90	0.21	0.84	0.00	84.53	97.80	13.27	279.4	1917.0	-8.39	4.11			3.49	9.42E-04		
16-Apr-90	0.16	0.84	0.00	84.53	97.77	13.24	278.8	1908.6	-8.37	3.12			4.27	1.16E-03		
17-Apr-90	0.23	0.84	0.00	84.49	97.74	13.25	278.1	1900.3	-8.35	4.48			5.23	1.42E-03		
18-Apr-90	0.23	0.84	0.00	84.34	97.71	13.37	277.5	1891.9	-8.33	4.47			3.86	1.04E-03		
19-Apr-90	0.27	0.84	0.00	84.28	97.69	13.41	277.1	1886.0	-5.94	5.24			1.47	3.97E-04		
20-Apr-90	0.18	0.84	0.00	84.23	97.67	13.44	276.6	1880.1	-5.93	3.49			0.70	1.87E-04		
21-Apr-90	0.27	0.84	0.00	84.29	97.65	13.35	276.2	1874.1	-5.92	5.22			2.44	6.61E-04		
22-Apr-90	0.16	0.84	0.00	84.41	97.62	13.22	275.7	1868.2	-5.91	3.09			0.69	1.90E-04		
23-Apr-90	0.21	0.84	0.50	84.42	97.60	13.18	275.3	1862.3	-5.90	4.05	11.47	0.80	2.82	7.76E-04		
24-Apr-90	0.12	0.84	0.12	84.57	97.58	13.01	274.8	1856.4	-5.89	2.31	2.75	0.19	14.12	3.95E-03		
25-Apr-90	0.27	0.84	0.00	84.39	97.56	13.17	274.4	1850.5	-5.88	5.19			6.52	1.80E-03		
26-Apr-90	0.27	0.84	0.00	84.34	97.55	13.21	274.1	1846.6	-3.92	5.18			-1.27			
27-Apr-90	0.28	0.84	0.00	84.29	97.53	13.24	273.8	1842.7	-3.91	5.37			-1.27			
28-Apr-90	0.31	0.84	0.00	84.36	97.52	13.16	273.5	1838.8	-3.91	5.93			-1.46			
29-Apr-90	0.17	0.84	0.93	84.42	97.50	13.08	273.2	1834.9	-3.90	3.25	21.17	1.49	-2.03			
30-Apr-90	0.23	0.84	0.00	84.31	97.49	13.18	272.9	1831.0	-3.90	4.39			23.31	6.48E-03		
01-May-90	0.28	0.82	0.00	84.31	97.47	13.17	272.6	1827.1	-3.90	5.22			-0.50			
02-May-90	0.29	0.82	0.00	84.16	97.46	13.30	272.3	1823.2	-3.89	5.40			-1.32			
03-May-90	0.33	0.82	0.00	84.10	97.42	13.32	271.5	1813.1	-10.10	6.12			4.70	1.30E-03		
04-May-90	0.27	0.82	0.00	84.02	97.39	13.37	270.7	1803.0	-10.07	4.99			3.95	1.09E-03		
05-May-90	0.19	0.82	0.00	84.20	97.35	13.15	269.9	1793.0	-10.04	3.50			5.05	1.42E-03		
06-May-90	0.30	0.82	0.00	84.13	97.31	13.18	269.2	1783.0	-10.01	5.52			6.51	1.83E-03		

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 1920		Leakage Volume (ac-ft)	Leakance (1/day)	
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			Surface Runoff Volume (ac-ft)
07-May-90	0.17	0.82	0.00	83.95	97.27	13.32	268.4	1773.0	-9.98	3.12		4.47	1.25E-03	
08-May-90	0.32	0.82	0.00	83.86	97.24	13.38	267.6	1763.1	-9.95	5.85		6.84	1.91E-03	
09-May-90	0.25	0.82	0.01	83.89	97.20	13.31	266.8	1753.1	-9.93	4.56	0.22	4.07	1.15E-03	
10-May-90	0.10	0.82	0.53	84.10	97.19	13.09	266.6	1750.1	-3.05	1.82	11.77	-1.27		
11-May-90	0.31	0.82	0.00	83.90	97.18	13.27	266.3	1747.0	-3.05	5.64		13.85	3.92E-03	
12-May-90	0.32	0.82	0.00	83.81	97.17	13.36	266.1	1744.0	-3.04	5.82		-2.60		
13-May-90	0.27	0.82	0.00	83.76	97.15	13.39	265.9	1740.9	-3.04	4.91		-2.78		
14-May-90	0.34	0.82	0.00	83.71	97.14	13.43	265.6	1737.9	-3.04	6.17		-1.87		
15-May-90	0.32	0.82	1.34	83.68	97.13	13.45	265.4	1734.9	-3.03	5.80	29.63	-3.14		
16-May-90	0.20	0.82	0.00	83.78	97.12	13.34	265.1	1731.8	-3.03	3.62		29.01	8.20E-03	
17-May-90	0.32	0.82	0.00	83.78	97.10	13.32	264.7	1725.8	-6.06	5.79		2.43	6.90E-04	
18-May-90	0.31	0.82	0.00	83.74	97.07	13.33	264.2	1719.7	-6.04	5.60		0.26	7.30E-05	
19-May-90	0.31	0.82	0.00	83.70	97.05	13.36	263.7	1713.7	-6.03	5.59		0.44	1.24E-04	
20-May-90	0.23	0.82	0.00	83.73	97.03	13.30	263.2	1707.7	-6.02	4.14		0.44	1.25E-04	
21-May-90	0.33	0.82	0.00	83.68	97.01	13.33	262.8	1701.7	-6.01	5.93		1.87	5.35E-04	
22-May-90	0.23	0.82	0.03	83.66	96.98	13.32	262.3	1695.7	-6.00	4.12	0.66	0.05	0.08	2.16E-05
23-May-90	0.16	0.82	0.00	83.66	96.96	13.30	261.8	1689.7	-5.99	2.86		2.57	7.39E-04	
24-May-90	0.26	0.82	0.00	83.53	96.93	13.40	261.2	1681.8	-7.84	4.64		4.98	1.42E-03	
25-May-90	0.30	0.82	0.00	83.37	96.90	13.53	260.5	1674.0	-7.83	5.34		3.19	9.04E-04	
26-May-90	0.17	0.82	0.00	83.32	96.86	13.54	259.8	1664.7	-9.37	3.02		4.03	1.14E-03	
27-May-90	0.29	0.82	0.00	83.37	96.83	13.46	259.0	1655.3	-9.34	5.13		6.32	1.81E-03	
28-May-90	0.33	0.82	1.27	83.37	96.79	13.42	258.3	1646.0	-9.31	5.82	27.33	2.03	4.18	1.21E-03
29-May-90	0.27	0.82	0.00	83.23	96.76	13.53	257.5	1636.7	-9.28	4.75		32.83	9.42E-03	
30-May-90	0.29	0.82	0.00	83.76	96.72	12.96	256.8	1627.5	-9.26	5.09		4.51	1.35E-03	
31-May-90	0.33	0.82	0.00	83.00	96.70	13.70	256.4	1623.1	-4.40	5.78		-0.69		
01-Jun-90	0.28	0.85	0.00	82.89	96.69	13.80	256.1	1618.7	-4.39	5.08		-1.39		
02-Jun-90	0.32	0.85	0.00	82.79	96.67	13.88	255.7	1614.3	-4.39	5.80		-0.69		
03-Jun-90	0.27	0.85	0.15	82.99	96.65	13.67	255.3	1609.9	-4.38	4.88	3.19	0.24	-1.42	
04-Jun-90	0.28	0.85	0.00	83.05	96.63	13.58	255.0	1605.5	-4.37	5.06		2.92	8.44E-04	
05-Jun-90	0.04	0.85	1.15	83.16	96.62	13.45	254.6	1601.2	-4.37	0.72	24.40	1.84	-0.69	
06-Jun-90	0.20	0.85	0.00	83.10	96.60	13.50	254.3	1596.8	-4.36	3.60		29.88	8.70E-03	
07-Jun-90	0.25	0.85	0.26	83.20	96.60	13.41	254.3	1597.5	0.73	4.50	5.51	0.42	-4.33	
08-Jun-90	0.19	0.85	0.14	83.31	96.61	13.30	254.4	1598.2	0.73	3.42	2.97	0.22	0.70	2.06E-04
09-Jun-90	0.17	0.85	0.03	83.28	96.61	13.33	254.4	1599.0	0.73	3.06	0.64	0.05	-0.96	
10-Jun-90	0.19	0.85	0.00	83.24	96.61	13.37	254.5	1599.7	0.73	3.43			-3.11	
11-Jun-90	0.20	0.85	0.01	83.26	96.61	13.35	254.6	1600.4	0.73	3.61	0.21	0.02	-4.15	
12-Jun-90	0.32	0.85	0.00	83.23	96.62	13.39	254.6	1601.2	0.73	5.77			-4.11	
13-Jun-90	0.37	0.85	0.00	83.11	96.62	13.51	254.7	1601.9	0.73	6.67			-6.50	
14-Jun-90	0.30	0.85	0.00	83.05	96.58	13.53	253.9	1592.3	-9.54	5.40		2.86	8.33E-04	
15-Jun-90	0.25	0.85	0.00	83.07	96.55	13.48	253.1	1582.8	-9.51	4.48		4.11	1.21E-03	
16-Jun-90	0.27	0.85	0.00	82.97	96.51	13.54	252.3	1573.4	-9.48	4.83		5.00	1.46E-03	
17-Jun-90	0.24	0.85	0.01	82.92	96.47	13.55	251.5	1563.9	-9.45	4.28	0.21	0.02	4.62	1.36E-03
18-Jun-90	0.25	0.85	0.45	82.87	96.43	13.56	250.7	1554.5	-9.42	4.44	9.40	0.72	5.37	1.58E-03
19-Jun-90	0.30	0.85	0.00	83.00	96.40	13.39	250.0	1545.1	-9.39	5.31		15.07	4.50E-03	
20-Jun-90	0.30	0.85	0.00	82.79	96.36	13.57	249.2	1535.8	-9.36	5.30		4.05	1.20E-03	
21-Jun-90	0.32	0.85	0.00	82.69	96.32	13.63	248.4	1526.4	-9.33	5.63		4.03	1.19E-03	
22-Jun-90	0.31	0.85	0.01	82.76	96.35	13.59	249.0	1533.9	7.46	5.47	0.21	0.02	-13.09	
23-Jun-90	0.16	0.85	2.86	83.10	96.38	13.28	249.6	1541.4	7.48	2.83	59.50	4.58	-12.73	
24-Jun-90	0.13	0.85	0.64	83.32	96.41	13.09	250.3	1548.9	7.50	2.30	13.35	1.02	53.75	1.64E-02
25-Jun-90	0.15	0.85	0.00	82.76	96.44	13.68	250.9	1556.4	7.52	2.67			4.55	1.33E-03
26-Jun-90	0.26	0.85	0.00	83.18	96.47	13.29	251.5	1563.9	7.54	4.63			-10.20	
27-Jun-90	0.10	0.85	3.26	83.15	96.50	13.35	252.2	1571.5	7.56	1.79	68.50	5.22	-12.19	
28-Jun-90	0.16	0.85	0.00	83.10	96.51	13.42	252.4	1574.8	3.36	2.86			68.57	2.02E-02
29-Jun-90	0.22	0.85	0.00	83.07	96.53	13.46	252.7	1578.2	3.37	3.94			-6.23	
30-Jun-90	0.24	0.85	0.08	83.16	96.54	13.38	253.0	1581.6	3.37	4.30	1.69	0.13	-7.31	
01-Jul-90	0.27	0.91	0.00	83.36	96.55	13.20	253.3	1585.0	3.38	5.19			-5.86	
02-Jul-90	0.26	0.91	0.02	83.32	96.57	13.24	253.6	1588.3	3.38	5.00	0.42	0.03	-8.56	
03-Jul-90	0.19	0.91	0.68	83.29	96.58	13.29	253.8	1591.7	3.38	3.66	14.38	1.09	-7.93	
04-Jul-90	0.06	0.91	0.05	83.11	96.55	13.43	253.2	1583.5	-8.24	1.15	1.05	0.08	20.05	5.90E-03
05-Jul-90	0.18	0.91	0.00	83.08	96.52	13.43	252.5	1575.3	-8.22	3.45			8.20	2.42E-03
06-Jul-90	0.26	0.91	0.11	83.11	96.48	13.37	251.8	1567.1	-8.19	4.96	2.31	0.18	4.75	1.41E-03
07-Jul-90	0.32	0.91	0.00	82.97	96.45	13.48	251.1	1558.9	-8.17	6.09			5.69	1.68E-03
08-Jul-90	0.27	0.91	0.00	83.03	96.42	13.38	250.4	1550.7	-8.15	5.13			2.06	6.14E-04
09-Jul-90	0.30	0.91	0.00	82.89	96.39	13.50	249.8	1542.6	-8.13	5.68			3.00	8.90E-04
10-Jul-90	0.29	0.91	0.00	82.79	96.35	13.56	249.1	1534.5	-8.11	5.48			2.42	7.18E-04
11-Jul-90	0.28	0.91	0.05	82.76	96.32	13.56	248.4	1526.4	-8.08	5.27	1.03	0.08	2.61	7.74E-04
12-Jul-90	0.28	0.91	0.86	82.78	96.30	13.53	248.0	1522.2	-4.26	5.27	17.78	1.38	0.10	2.86E-05
13-Jul-90	0.32	0.91	1.13	83.00	96.29	13.28	247.7	1517.9	-4.25	6.01	23.32	1.81	18.13	5.51E-03
14-Jul-90	0.10	0.91	2.47	83.10	96.27	13.17	247.3	1513.7	-4.24	1.88	50.91	3.95	23.36	7.17E-03
15-Jul-90	0.05	0.91	2.63	83.20	96.25	13.06	247.0	1509.4	-4.24	0.94	54.12	4.21	57.22	1.77E-02

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01		Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
										Drain. Area (ac) = 1920				
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			
16-Jul-90	0.20	0.91	0.00	83.03	96.23	13.20	246.6	1505.2	-4.23	3.74			61.63	1.89E-02
17-Jul-90	0.21	0.91	0.18	83.02	96.22	13.20	246.2	1501.0	-4.22	3.92	3.69	0.29	0.48	1.49E-04
18-Jul-90	0.22	0.91	0.00	82.97	96.20	13.23	245.9	1496.8	-4.22	4.10			4.28	1.32E-03
19-Jul-90	0.18	0.91	0.01	83.07	96.23	13.16	246.5	1504.1	7.39	3.36	0.21	0.02	-11.49	
20-Jul-90	0.27	0.91	1.32	83.10	96.26	13.16	247.1	1511.6	7.41	5.06	27.19	2.11	-10.55	
21-Jul-90	0.22	0.91	0.53	83.16	96.26	13.10	247.1	1511.6	0.00	4.12	10.92	0.85	24.24	7.49E-03
22-Jul-90	0.24	0.91	0.25	83.23	96.26	13.03	247.1	1511.6	0.00	4.50	5.15	0.40	7.64	2.37E-03
23-Jul-90	0.24	0.91	0.00	82.98	96.26	13.28	247.1	1511.6	0.00	4.50			1.05	3.20E-04
24-Jul-90	0.32	0.91	0.00	83.20	96.26	13.06	247.1	1511.6	0.00	6.00			-4.50	
25-Jul-90	0.30	0.91	0.00	83.13	96.26	13.13	247.1	1511.6	0.00	5.62			-6.00	
26-Jul-90	0.27	0.91	0.00	83.05	96.24	13.19	246.7	1505.9	-5.64	5.05			0.02	6.55E-06
27-Jul-90	0.31	0.91	0.00	83.05	96.21	13.16	246.2	1500.3	-5.63	5.79			0.58	1.80E-04
28-Jul-90	0.32	0.91	0.07	83.18	96.19	13.01	245.7	1494.7	-5.62	5.96	1.43	0.11	-0.17	
29-Jul-90	0.12	0.91	0.00	83.32	96.17	12.84	245.2	1489.0	-5.61	2.23			1.19	3.79E-04
30-Jul-90	0.27	0.91	0.00	83.16	96.15	12.98	244.7	1483.4	-5.60	5.01			3.37	1.06E-03
31-Jul-90	0.28	0.91	0.00	83.08	96.12	13.04	244.3	1477.9	-5.59	5.19			0.58	1.81E-04
01-Aug-90	0.28	0.91	0.00	82.90	96.10	13.20	243.8	1472.3	-5.58	5.18			0.39	1.22E-04
02-Aug-90	0.29	0.91	0.00	82.86	96.08	13.22	243.4	1467.4	-4.87	5.35			-0.30	
03-Aug-90	0.21	0.91	0.05	82.87	96.06	13.19	242.9	1462.5	-4.86	3.87	1.01	0.08	-0.49	
04-Aug-90	0.16	0.91	0.36	82.79	96.04	13.25	242.5	1457.7	-4.86	2.94	7.28	0.58	2.08	6.47E-04
05-Aug-90	0.24	0.91	0.00	82.78	96.02	13.24	242.1	1452.8	-4.85	4.41			9.76	3.04E-03
06-Aug-90	0.31	0.91	0.00	82.66	95.98	13.32	241.3	1443.2	-9.67	5.67			5.26	1.64E-03
07-Aug-90	0.27	0.91	0.00	82.74	95.94	13.20	240.4	1433.5	-9.63	4.92			3.96	1.25E-03
08-Aug-90	0.15	0.91	2.35	82.74	95.90	13.16	239.6	1423.9	-9.60	2.73	46.92	3.76	4.68	1.48E-03
09-Aug-90	0.10	0.91	0.11	82.76	95.87	13.11	239.0	1417.0	-6.98	1.81	2.19	0.18	54.94	1.75E-02
10-Aug-90	0.06	0.91	0.09	82.76	95.84	13.08	238.4	1410.0	-6.96	1.08	1.79	0.14	7.52	2.41E-03
11-Aug-90	0.16	0.91	0.21	82.74	95.81	13.07	237.8	1403.1	-6.94	2.88	4.16	0.34	7.79	2.51E-03
12-Aug-90	0.17	0.91	0.03	82.73	95.78	13.06	237.2	1396.1	-6.93	3.06	0.59	0.05	8.54	2.76E-03
13-Aug-90	0.23	0.91	0.00	82.65	95.75	13.11	236.5	1389.2	-6.91	4.13			4.49	1.45E-03
14-Aug-90	0.20	0.91	0.67	82.61	95.73	13.11	235.9	1382.3	-6.89	3.58	13.17	1.07	2.76	8.94E-04
15-Aug-90	0.14	0.91	0.14	82.55	95.70	13.15	235.3	1375.5	-6.87	2.50	2.75	0.22	17.54	5.67E-03
16-Aug-90	0.18	0.91	0.01	82.57	95.67	13.10	234.7	1368.6	-6.86	3.20	0.20	0.02	7.33	2.38E-03
17-Aug-90	0.22	0.91	0.00	82.68	95.64	12.96	234.1	1361.8	-6.84	3.91			3.85	1.27E-03
18-Aug-90	0.26	0.91	0.50	82.78	95.61	12.83	233.5	1354.9	-6.82	4.60	9.73	0.80	2.91	9.72E-04
19-Aug-90	0.25	0.91	0.00	82.63	95.58	12.95	232.9	1348.1	-6.80	4.42			12.73	4.22E-03
20-Aug-90	0.28	0.91	0.00	82.57	95.55	12.98	232.3	1341.4	-6.78	4.93			2.37	7.85E-04
21-Aug-90	0.27	0.91	1.52	82.52	95.47	12.95	230.5	1321.7	-19.67	4.72	29.20	2.43	14.74	4.94E-03
22-Aug-90	0.26	0.91	0.05	82.53	95.38	12.85	228.7	1302.2	-19.52	4.51	0.95	0.08	46.43	1.58E-02
23-Aug-90	0.14	0.91	0.23	82.50	95.36	12.86	228.2	1297.1	-5.04	2.42	4.37	0.37	1.57	5.34E-04
24-Aug-90	0.10	0.91	0.00	82.42	95.34	12.92	227.8	1292.1	-5.03	1.73			7.35	2.50E-03
25-Aug-90	0.23	0.91	0.00	82.47	95.31	12.84	227.3	1287.1	-5.02	3.96			3.29	1.13E-03
26-Aug-90	0.19	0.91	0.00	82.55	95.29	12.74	226.9	1282.1	-5.01	3.27			1.05	3.62E-04
27-Aug-90	0.22	0.91	0.00	82.55	95.27	12.72	226.4	1277.1	-5.00	3.78			1.73	6.02E-04
28-Aug-90	0.34	0.91	1.35	82.50	95.25	12.75	225.9	1272.1	-4.99	5.83	25.42	2.16	1.21	4.22E-04
29-Aug-90	0.21	0.91	0.00	82.45	95.23	12.77	225.5	1267.1	-4.98	3.59			26.73	9.28E-03
30-Aug-90	0.26	0.91	0.00	82.34	95.20	12.86	225.0	1262.1	-4.97	4.44			1.38	4.77E-04
31-Aug-90	0.21	0.91	0.43	82.33	95.18	12.85	224.6	1257.2	-4.96	3.58	8.05	0.69	0.52	1.82E-04
01-Sep-90	0.13	0.85	0.00	82.32	95.16	12.84	224.1	1252.2	-4.95	2.06			10.11	3.51E-03
02-Sep-90	0.25	0.85	0.29	82.31	95.14	12.83	223.6	1247.3	-4.94	3.96	5.40	0.46	2.88	1.00E-03
03-Sep-90	0.17	0.85	0.11	82.30	95.12	12.82	223.2	1242.3	-4.93	2.69	2.05	0.18	6.84	2.39E-03
04-Sep-90	0.24	0.85	0.00	82.28	95.09	12.81	222.7	1237.4	-4.92	3.79			4.45	1.56E-03
05-Sep-90	0.18	0.85	0.00	82.27	95.07	12.80	222.2	1232.5	-4.91	2.83			1.12	3.95E-04
06-Sep-90	0.18	0.85	0.18	82.26	95.05	12.79	221.8	1227.6	-4.90	2.83	3.33	0.29	2.07	7.29E-04
07-Sep-90	0.21	0.85	0.00	82.25	95.03	12.78	221.3	1222.7	-4.89	3.29			5.68	2.01E-03
08-Sep-90	0.20	0.85	0.00	82.24	95.00	12.76	220.9	1217.8	-4.88	3.13			1.59	5.63E-04
09-Sep-90	0.23	0.85	0.00	82.23	94.98	12.75	220.4	1213.0	-4.87	3.59			1.74	6.19E-04
10-Sep-90	0.19	0.85	0.00	82.22	94.96	12.74	219.9	1208.1	-4.86	2.96			1.27	4.53E-04
11-Sep-90	0.15	0.85	0.00	82.21	94.94	12.73	219.5	1203.3	-4.85	2.33			1.89	6.78E-04
12-Sep-90	0.23	0.85	0.16	82.20	94.92	12.72	219.0	1198.4	-4.84	3.57	2.92	0.26	2.51	9.00E-04
13-Sep-90	0.26	0.85	0.00	82.18	94.89	12.71	218.5	1193.6	-4.83	4.02			4.44	1.60E-03
14-Sep-90	0.27	0.85	0.00	82.17	94.87	12.70	218.1	1188.8	-4.82	4.17			0.79	2.86E-04
15-Sep-90	0.21	0.85	0.00	82.16	94.85	12.69	217.6	1184.0	-4.81	3.24			0.64	2.31E-04
16-Sep-90	0.12	0.85	0.36	82.15	94.83	12.68	217.2	1179.2	-4.80	1.85	6.51	0.58	1.56	5.67E-04
17-Sep-90	0.20	0.85	0.22	82.14	94.81	12.67	216.7	1174.4	-4.79	3.07	3.97	0.35	10.03	3.66E-03
18-Sep-90	0.25	0.85	0.00	82.13	94.78	12.65	216.2	1169.6	-4.78	3.83			6.03	2.20E-03
19-Sep-90	0.26	0.85	0.00	82.12	94.76	12.64	215.8	1164.8	-4.77	3.97			0.94	3.44E-04
20-Sep-90	0.23	0.85	0.00	81.92	94.74	12.82	215.3	1160.1	-4.76	3.51			0.78	2.84E-04
21-Sep-90	0.23	0.85	0.00	82.10	94.70	12.60	214.5	1151.5	-8.60	3.49			5.09	1.88E-03
22-Sep-90	0.24	0.85	0.00	82.08	94.66	12.58	213.6	1142.9	-8.56	3.63			5.07	1.89E-03
23-Sep-90	0.26	0.85	0.00	82.07	94.62	12.55	212.8	1134.4	-8.53	3.92			4.90	1.83E-03

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
24-Sep-90	0.31	0.85	0.00	82.06	94.58	12.52	212.0	1125.9	-8.50	4.65			4.58	1.72E-03
25-Sep-90	0.23	0.85	0.00	82.05	94.54	12.49	211.1	1117.4	-8.46	3.44			3.81	1.44E-03
26-Sep-90	0.21	0.85	0.00	82.04	94.50	12.46	210.3	1109.0	-8.43	3.13			4.99	1.90E-03
27-Sep-90	0.17	0.85	0.00	82.03	94.46	12.43	209.4	1100.6	-8.40	2.52			5.27	2.02E-03
28-Sep-90	0.22	0.85	0.00	82.02	94.46	12.44	209.4	1099.8	-0.76	3.26			-1.76	
29-Sep-90	0.13	0.85	0.68	82.01	94.45	12.45	209.3	1099.1	-0.76	1.93	11.86	1.09	-2.50	
30-Sep-90	0.06	0.85	0.14	82.00	94.45	12.45	209.2	1098.3	-0.76	0.89	2.44	0.22	11.78	4.52E-03
01-Oct-90	0.10	0.76	0.00	81.99	94.45	12.46	209.1	1097.6	-0.76	1.32			2.54	9.73E-04
02-Oct-90	0.21	0.76	0.00	81.97	94.44	12.47	209.1	1096.8	-0.76	2.78			-0.56	
03-Oct-90	0.24	0.76	0.00	81.96	94.44	12.48	209.0	1096.0	-0.76	3.18			-2.02	
04-Oct-90	0.20	0.76	0.00	81.95	94.43	12.48	208.9	1095.3	-0.76	2.65			-2.42	
05-Oct-90	0.16	0.76	0.00	81.94	94.43	12.49	208.8	1094.5	-0.76	2.12			-1.89	
06-Oct-90	0.15	0.76	0.08	81.93	94.43	12.50	208.8	1093.8	-0.76	1.98	1.39	0.13	-1.36	
07-Oct-90	0.18	0.76	0.00	81.92	94.42	12.51	208.7	1093.0	-0.76	2.38			0.30	1.13E-04
08-Oct-90	0.22	0.76	0.00	81.91	94.42	12.51	208.6	1092.2	-0.76	2.91			-1.62	
09-Oct-90	0.21	0.76	0.00	81.90	94.42	12.52	208.5	1091.5	-0.76	2.77			-2.15	
10-Oct-90	0.24	0.76	0.58	81.89	94.41	12.53	208.5	1090.7	-0.76	3.17	10.08	0.93	-2.02	
11-Oct-90	0.18	0.76	1.68	81.87	94.41	12.53	208.4	1090.0	-0.76	2.38	29.17	2.69	8.59	3.29E-03
12-Oct-90	0.05	0.76	0.74	81.86	94.41	12.54	208.3	1089.2	-0.76	0.66	12.85	1.18	30.24	1.16E-02
13-Oct-90	0.13	0.76	0.00	81.85	94.40	12.55	208.2	1088.5	-0.76	1.71			14.13	5.41E-03
14-Oct-90	0.18	0.76	0.00	81.84	94.40	12.56	208.2	1087.7	-0.76	2.37			-0.96	
15-Oct-90	0.19	0.76	0.00	81.83	94.39	12.56	208.1	1086.9	-0.76	2.50			-1.62	
16-Oct-90	0.19	0.76	0.00	81.82	94.39	12.57	208.0	1086.2	-0.76	2.50			-1.75	
17-Oct-90	0.16	0.76	0.00	81.81	94.39	12.58	207.9	1085.4	-0.76	2.11			-1.75	
18-Oct-90	0.18	0.76	0.00	81.80	94.38	12.59	207.8	1084.7	-0.76	2.37			-1.35	
19-Oct-90	0.09	0.76	0.12	81.79	94.38	12.59	207.8	1083.9	-0.76	1.18	2.08	0.19	-1.61	
20-Oct-90	0.16	0.76	0.00	81.77	94.37	12.59	207.5	1081.1	-2.80	2.10			3.88	1.49E-03
21-Oct-90	0.13	0.76	0.00	81.76	94.35	12.59	207.2	1078.3	-2.79	1.71			0.69	2.65E-04
22-Oct-90	0.28	0.76	0.00	81.75	94.34	12.59	206.9	1075.5	-2.79	3.67			1.08	4.16E-04
23-Oct-90	0.05	0.76	0.31	81.74	94.33	12.59	206.6	1072.8	-2.79	0.65	5.34	0.50	-0.88	
24-Oct-90	0.15	0.76	0.00	81.73	94.31	12.58	206.4	1070.0	-2.78	1.96			7.96	3.07E-03
25-Oct-90	0.11	0.76	0.00	81.72	94.30	12.58	206.1	1067.2	-2.78	1.44			0.82	3.15E-04
26-Oct-90	0.09	0.76	0.00	81.71	94.29	12.58	205.8	1064.4	-2.77	1.17			1.34	5.17E-04
27-Oct-90	0.11	0.76	0.00	81.70	94.27	12.58	205.5	1061.6	-2.77	1.43			1.60	6.18E-04
28-Oct-90	0.12	0.76	0.00	81.69	94.26	12.57	205.2	1058.9	-2.77	1.56			1.33	5.17E-04
29-Oct-90	0.11	0.76	0.00	81.67	94.25	12.57	205.0	1056.1	-2.76	1.43			1.20	4.67E-04
30-Oct-90	0.12	0.76	0.00	81.66	94.23	12.61	204.7	1053.4	-2.76	1.56			1.33	5.16E-04
31-Oct-90	0.11	0.76	0.00	81.65	94.22	12.57	204.4	1050.6	-2.76	1.42			1.20	4.67E-04
01-Nov-90	0.10	0.71	0.00	81.64	94.20	12.56	204.1	1047.9	-2.75	1.21			1.33	5.18E-04
02-Nov-90	0.15	0.71	0.00	81.63	94.19	12.56	203.8	1045.1	-2.75	1.81			1.54	6.01E-04
03-Nov-90	0.15	0.71	0.00	81.61	94.18	12.56	203.5	1042.4	-2.74	1.81			0.93	3.66E-04
04-Nov-90	0.13	0.71	0.00	81.60	94.16	12.57	203.3	1039.6	-2.74	1.56			0.93	3.65E-04
05-Nov-90	0.12	0.71	0.00	81.58	94.15	12.57	203.0	1036.9	-2.74	1.44			1.17	4.60E-04
06-Nov-90	0.15	0.71	0.00	81.57	94.14	12.57	202.7	1034.2	-2.73	1.80			1.29	5.07E-04
07-Nov-90	0.13	0.71	0.00	81.58	94.12	12.54	202.4	1031.4	-2.73	1.56			0.93	3.66E-04
08-Nov-90	0.12	0.71	0.00	81.57	94.11	12.55	202.1	1028.7	-2.72	1.44			1.17	4.61E-04
09-Nov-90	0.12	0.71	0.00	81.65	94.10	12.45	201.8	1026.0	-2.72	1.43			1.29	5.12E-04
10-Nov-90	0.12	0.71	0.77	81.65	94.08	12.44	201.6	1023.3	-2.72	1.43	12.93	1.23	1.28	5.12E-04
11-Nov-90	0.14	0.71	0.00	81.34	94.07	12.73	201.3	1020.6	-2.71	1.67			15.45	6.03E-03
12-Nov-90	0.13	0.71	0.00	81.29	94.06	12.77	201.0	1017.8	-2.71	1.55			1.04	4.06E-04
13-Nov-90	0.11	0.71	0.00	81.24	94.04	12.80	200.7	1015.1	-2.71	1.31			1.16	4.51E-04
14-Nov-90	0.13	0.71	0.00	81.10	94.03	12.93	200.4	1012.4	-2.70	1.54			1.40	5.38E-04
15-Nov-90	0.15	0.71	0.00	81.16	94.02	12.85	200.2	1009.7	-2.70	1.78			1.16	4.49E-04
16-Nov-90	0.12	0.71	0.00	81.26	94.00	12.74	199.9	1007.0	-2.69	1.42			0.92	3.60E-04
17-Nov-90	0.10	0.71	0.00	81.37	93.99	12.62	199.6	1004.4	-2.69	1.18			1.27	5.05E-04
18-Nov-90	0.16	0.71	0.00	81.28	93.98	12.70	199.3	1001.7	-2.69	1.89			1.51	5.95E-04
19-Nov-90	0.13	0.71	0.00	81.23	93.96	12.74	199.0	999.0	-2.68	1.53			0.80	3.14E-04
20-Nov-90	0.09	0.71	0.00	81.16	93.95	12.79	198.7	996.3	-2.68	1.06			1.15	4.52E-04
21-Nov-90	0.09	0.71	0.00	81.15	93.94	12.79	198.5	993.6	-2.68	1.06			1.62	6.37E-04
22-Nov-90	0.10	0.71	0.00	81.18	93.92	12.74	198.2	991.0	-2.67	1.17			1.61	6.39E-04
23-Nov-90	0.10	0.71	0.00	81.28	93.91	12.63	197.9	988.3	-2.67	1.17			1.50	5.98E-04
24-Nov-90	0.05	0.71	0.14	81.18	93.90	12.72	197.6	985.6	-2.66	0.58	2.31	0.22	1.49	5.94E-04
25-Nov-90	0.10	0.71	0.00	81.08	93.88	12.80	197.3	983.0	-2.66	1.17			4.60	1.82E-03
26-Nov-90	0.10	0.71	0.00	81.05	93.87	12.82	197.1	980.3	-2.66	1.17			1.49	5.89E-04
27-Nov-90	0.08	0.71	0.00	81.31	93.85	12.54	196.8	977.7	-2.65	0.93			1.49	6.02E-04
28-Nov-90	0.06	0.71	0.16	81.07	93.84	12.78	196.5	975.0	-2.65	0.70	2.62	0.26	1.72	6.84E-04
29-Nov-90	0.07	0.71	0.00	81.03	93.83	12.79	196.2	972.4	-2.64	0.81			4.82	1.92E-03
30-Nov-90	0.19	0.71	0.00	80.87	93.81	12.94	195.9	969.7	-2.64	2.20			1.83	7.21E-04
01-Dec-90	0.13	0.83	0.00	80.81	93.80	12.99	195.6	967.1	-2.64	1.76			0.43	1.71E-04
02-Dec-90	0.08	0.83	0.00	80.84	93.79	12.95	195.4	964.5	-2.63	1.08			0.87	3.46E-04

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 1920		Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)		
03-Dec-90	0.11	0.83	0.00	81.00	93.77	12.77	195.1	961.8	-2.63	1.48		1.55	6.22E-04
04-Dec-90	0.12	0.83	0.28	81.02	93.76	12.74	194.8	959.2	-2.63	1.62	4.55	1.14	4.60E-04
05-Dec-90	0.09	0.83	0.00	80.90	93.75	12.84	194.5	956.6	-2.62	1.21		6.00	2.40E-03
06-Dec-90	0.09	0.83	0.00	81.05	93.73	12.68	194.2	954.0	-2.62	1.21		1.41	5.71E-04
07-Dec-90	0.04	0.83	0.00	81.18	93.72	12.54	194.0	951.3	-2.61	0.54		1.41	5.78E-04
08-Dec-90	0.05	0.83	1.04	81.08	93.71	12.63	193.7	949.1	-2.29	0.67	16.79	1.75	7.15E-04
09-Dec-90	0.04	0.83	0.00	80.86	93.70	12.84	193.5	946.8	-2.28	0.54		20.07	8.08E-03
10-Dec-90	0.12	0.83	0.00	80.84	93.68	12.85	193.2	944.5	-2.28	1.60		1.75	7.03E-04
11-Dec-90	0.12	0.83	0.00	80.90	93.67	12.77	193.0	942.2	-2.28	1.60		0.67	2.74E-04
12-Dec-90	0.08	0.83	0.00	80.86	93.66	12.81	192.7	939.9	-2.27	1.07		0.67	2.73E-04
13-Dec-90	0.04	0.83	0.00	80.87	93.65	12.78	192.5	937.7	-2.27	0.53		1.21	4.90E-04
14-Dec-90	0.08	0.83	0.00	80.81	93.64	12.83	192.2	935.4	-2.27	1.06		1.74	7.04E-04
15-Dec-90	0.05	0.83	0.00	80.86	93.63	12.77	192.0	933.1	-2.27	0.66		1.20	4.90E-04
16-Dec-90	0.04	0.83	0.00	80.97	93.61	12.65	191.7	930.9	-2.26	0.53		1.60	6.60E-04
17-Dec-90	0.08	0.83	0.00	81.02	93.60	12.59	191.5	928.6	-2.26	1.06		1.73	7.18E-04
18-Dec-90	0.08	0.83	0.00	81.10	93.59	12.49	191.2	926.4	-2.26	1.06		1.20	5.01E-04
19-Dec-90	0.08	0.83	0.00	80.95	93.58	12.63	191.0	924.1	-2.25	1.06		1.20	4.96E-04
20-Dec-90	0.06	0.83	0.00	80.76	93.57	12.81	190.7	921.8	-2.25	0.79		1.19	4.89E-04
21-Dec-90	0.09	0.83	0.00	80.71	93.55	12.84	190.5	919.6	-2.25	1.19		1.46	5.95E-04
22-Dec-90	0.09	0.83	0.00	80.81	93.54	12.74	190.2	917.4	-2.25	1.18		1.06	4.37E-04
23-Dec-90	0.10	0.83	0.00	80.87	93.53	12.66	190.0	915.1	-2.24	1.31		1.06	4.40E-04
24-Dec-90	0.11	0.83	0.07	80.90	93.52	12.62	189.8	912.9	-2.24	1.44	1.11	0.93	3.87E-04
25-Dec-90	0.16	0.83	0.00	80.79	93.51	12.72	189.5	910.6	-2.24	2.10		2.01	8.35E-04
26-Dec-90	0.06	0.83	0.00	80.74	93.50	12.75	189.3	908.4	-2.23	0.79		0.14	5.66E-05
27-Dec-90	0.10	0.83	0.00	80.71	93.48	12.77	189.0	906.2	-2.23	1.31		1.45	5.99E-04
28-Dec-90	0.08	0.83	0.00	80.71	93.47	12.76	188.8	903.9	-2.23	1.04		0.92	3.82E-04
29-Dec-90	0.02	0.83	0.00	80.79	93.46	12.67	188.5	901.7	-2.23	0.26		1.18	4.94E-04
30-Dec-90	0.07	0.83	0.00	80.87	93.45	12.58	188.3	899.5	-2.22	0.91		1.96	8.28E-04
31-Dec-90	0.07	0.83	0.00	80.86	93.44	12.58	188.0	897.3	-2.22	0.91		1.31	5.53E-04
01-Jan-91	0.04	0.77	0.00	80.87	93.43	12.55	187.8	895.1	-2.22	0.48		1.31	5.54E-04
02-Jan-91	0.01	0.77	0.00	80.87	93.41	12.54	187.5	892.8	-2.21	0.12		1.73	7.36E-04
03-Jan-91	0.06	0.77	0.00	80.82	93.40	12.58	187.3	890.6	-2.21	0.72		2.09	8.87E-04
04-Jan-91	0.06	0.77	0.00	80.76	93.39	12.63	187.0	888.4	-2.21	0.72		1.49	6.29E-04
05-Jan-91	0.05	0.77	0.00	80.69	93.38	12.68	186.8	886.2	-2.20	0.60		1.48	6.27E-04
06-Jan-91	0.04	0.77	0.00	80.69	93.37	12.67	186.5	884.0	-2.20	0.48		1.60	6.78E-04
07-Jan-91	0.05	0.77	0.00	80.76	93.35	12.60	186.3	881.8	-2.20	0.60		1.72	7.33E-04
08-Jan-91	0.06	0.77	0.00	80.71	93.34	12.63	186.0	879.6	-2.20	0.72		1.60	6.80E-04
09-Jan-91	0.06	0.77	0.00	80.53	93.33	12.80	185.8	877.4	-2.19	0.72		1.48	6.21E-04
10-Jan-91	0.12	0.77	0.00	80.60	93.32	12.72	185.6	875.2	-2.19	1.43		1.47	6.25E-04
11-Jan-91	0.07	0.77	0.13	80.82	93.31	12.48	185.3	873.1	-2.19	0.83	2.01	0.76	3.28E-04
12-Jan-91	0.16	0.77	2.07	81.03	93.30	12.26	185.1	870.9	-2.18	1.90	31.92	3.57	1.57E-03
13-Jan-91	0.21	0.77	0.00	80.86	93.28	12.43	184.8	868.7	-2.18	2.49		35.52	1.55E-02
14-Jan-91	0.10	0.77	0.00	80.76	93.27	12.51	184.6	866.5	-2.18	1.18		-0.31	
15-Jan-91	0.09	0.77	0.00	80.84	93.26	12.42	184.3	864.3	-2.18	1.06		0.99	4.33E-04
16-Jan-91	0.02	0.77	0.17	80.84	93.23	12.39	183.7	858.8	-5.52	0.24	2.60	4.46	1.96E-03
17-Jan-91	0.10	0.77	0.10	80.61	93.20	12.59	183.1	853.3	-5.50	1.17	1.53	8.14	3.53E-03
18-Jan-91	0.09	0.77	0.00	80.52	93.17	12.65	182.4	847.8	-5.48	1.05		5.99	2.60E-03
19-Jan-91	0.08	0.77	0.11	80.68	93.14	12.46	181.8	842.4	-5.46	0.93	1.67	4.41	1.95E-03
20-Jan-91	0.15	0.77	1.26	80.78	93.11	12.33	181.2	836.9	-5.45	1.74	19.02	6.35	2.84E-03
21-Jan-91	0.13	0.77	0.00	80.63	93.08	12.45	180.5	831.5	-5.43	1.51		24.72	1.10E-02
22-Jan-91	0.07	0.77	0.00	80.53	93.05	12.52	179.9	826.1	-5.41	0.81		3.90	1.73E-03
23-Jan-91	0.15	0.77	0.00	80.44	93.02	12.58	179.3	820.7	-5.39	1.73		4.58	2.03E-03
24-Jan-91	0.06	0.77	0.00	80.61	93.06	12.44	180.1	827.4	6.67	0.69		-8.40	
25-Jan-91	0.10	0.77	1.12	80.58	93.09	12.51	180.8	834.1	6.70	1.16	16.88	-7.40	
26-Jan-91	0.05	0.77	0.06	80.52	93.13	12.61	181.6	840.8	6.73	0.58	0.91	10.78	4.70E-03
27-Jan-91	0.05	0.77	0.00	80.60	93.17	12.57	182.4	847.6	6.76	0.59		-6.34	
28-Jan-91	0.06	0.77	0.80	80.87	93.21	12.34	183.2	854.4	6.79	0.71	12.21	-7.38	
29-Jan-91	0.02	0.77	0.05	80.73	93.24	12.52	184.0	861.2	6.82	0.24	0.77	5.97	2.59E-03
30-Jan-91	0.02	0.77	0.40	80.78	93.28	12.50	184.7	868.0	6.85	0.24	6.16	-6.24	
31-Jan-91	0.15	0.77	0.52	80.69	93.28	12.58	184.7	867.4	-0.62	1.78	8.00	7.18	3.09E-03
01-Feb-91	0.08	0.69	0.05	80.52	93.27	12.76	184.6	866.8	-0.62	0.85	0.77	7.67	3.26E-03
02-Feb-91	0.11	0.69	0.15	80.53	93.27	12.74	184.5	866.2	-0.62	1.17	2.31	0.62	2.62E-04
03-Feb-91	0.02	0.69	0.01	80.65	93.27	12.62	184.5	865.6	-0.62	0.21	0.15	1.99	8.57E-04
04-Feb-91	0.14	0.69	0.00	80.66	93.26	12.60	184.4	864.9	-0.61	1.48		0.57	2.46E-04
05-Feb-91	0.15	0.69	0.00	80.78	93.26	12.48	184.3	864.3	-0.61	1.59		-0.87	
06-Feb-91	0.12	0.69	0.00	80.81	93.25	12.44	184.1	862.5	-1.84	1.27		0.25	1.10E-04
07-Feb-91	0.02	0.69	0.12	80.95	93.24	12.29	183.9	860.7	-1.84	0.21	1.84	0.57	2.52E-04
08-Feb-91	0.05	0.69	0.01	81.00	93.23	12.23	183.7	858.8	-1.84	0.53	0.15	3.66	1.63E-03
09-Feb-91	0.05	0.69	0.00	80.97	93.21	12.24	183.2	854.8	-4.04	0.53		3.68	1.84E-03
10-Feb-91	0.12	0.69	0.00	81.05	93.19	12.14	182.8	850.7	-4.03	1.26		3.50	1.58E-03

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01 Drain. Area (ac) = 1920		Leakage Volume (ac-ft)	Leakance (1/day)
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)		
11-Feb-91	0.16	0.69	0.00	80.94	93.16	12.23	182.3	846.7	-4.02	1.68		2.76	1.24E-03
12-Feb-91	0.13	0.69	0.00	80.76	93.14	12.38	181.8	842.7	-4.01	1.36		2.33	1.03E-03
13-Feb-91	0.12	0.69	0.00	80.89	93.12	12.23	181.4	838.7	-4.00	1.25		2.64	1.19E-03
14-Feb-91	0.15	0.69	0.31	81.15	93.10	11.95	181.0	835.1	-3.62	1.56	4.68	2.37	1.10E-03
15-Feb-91	0.19	0.69	0.01	80.90	93.08	12.18	180.5	831.5	-3.62	1.97	0.15	7.23	3.29E-03
16-Feb-91	0.19	0.69	0.00	80.34	93.06	12.72	180.1	827.9	-3.61	1.97		1.80	7.86E-04
17-Feb-91	0.10	0.69	0.00	80.39	93.04	12.65	179.7	824.3	-3.60	1.03		1.63	7.17E-04
18-Feb-91	0.08	0.69	0.00	80.52	93.02	12.50	179.3	820.7	-3.59	0.82		2.56	1.14E-03
19-Feb-91	0.16	0.69	0.00	80.52	93.00	12.48	178.9	817.1	-3.58	1.65		2.76	1.23E-03
20-Feb-91	0.17	0.69	0.00	80.50	92.98	12.48	178.5	813.5	-3.57	1.74		1.93	8.66E-04
21-Feb-91	0.19	0.69	0.00	80.50	92.95	12.45	177.9	809.0	-4.58	1.94		2.84	1.28E-03
22-Feb-91	0.12	0.69	0.00	80.63	92.93	12.30	177.4	804.4	-4.57	1.22		2.62	1.20E-03
23-Feb-91	0.11	0.69	0.00	80.71	92.90	12.19	176.8	799.8	-4.55	1.12		3.33	1.54E-03
24-Feb-91	0.18	0.69	0.00	80.74	92.88	12.13	176.3	795.3	-4.54	1.82		3.42	1.60E-03
25-Feb-91	0.10	0.69	0.00	80.70	92.85	12.15	175.8	790.8	-4.53	1.01		2.70	1.27E-03
26-Feb-91	0.07	0.69	0.00	80.51	92.83	12.32	175.2	786.3	-4.51	0.71		3.50	1.62E-03
27-Feb-91	0.20	0.69	0.00	80.37	92.80	12.43	174.7	781.8	-4.50	2.01		3.79	1.75E-03
28-Feb-91	0.13	0.69	0.00	80.36	92.85	12.48	175.6	789.8	8.01	1.31		-10.02	
01-Mar-91	0.04	0.73	0.00	80.47	92.89	12.42	176.6	797.8	8.05	0.43		-9.36	
02-Mar-91	0.11	0.73	0.00	80.60	92.94	12.34	177.6	805.9	8.10	1.19		-8.53	
03-Mar-91	0.01	0.73	5.15	80.91	92.98	12.07	178.5	814.1	8.14	0.11	76.61	-9.33	
04-Mar-91	0.22	0.73	0.00	80.81	93.03	12.22	179.5	822.2	8.18	2.40		76.56	3.49E-02
05-Mar-91	0.06	0.73	0.00	80.74	93.07	12.33	180.4	830.5	8.23	0.66		-10.63	
06-Mar-91	0.15	0.73	0.00	80.78	93.12	12.34	181.4	838.7	8.27	1.66		-8.93	
07-Mar-91	0.18	0.73	0.00	80.83	93.10	12.27	181.0	835.6	-3.11	1.98		1.45	6.53E-04
08-Mar-91	0.16	0.73	0.00	80.88	93.09	12.21	180.7	832.5	-3.10	1.76		1.12	5.07E-04
09-Mar-91	0.12	0.73	0.27	80.94	93.07	12.13	180.3	829.4	-3.09	1.32	4.06	1.34	6.11E-04
10-Mar-91	0.10	0.73	0.00	80.92	93.05	12.13	180.0	826.3	-3.09	1.09		6.26	2.87E-03
11-Mar-91	0.21	0.73	0.00	80.91	93.03	12.13	179.6	823.3	-3.08	2.29		1.99	9.12E-04
12-Mar-91	0.14	0.73	0.00	80.96	93.02	12.05	179.2	820.2	-3.08	1.53		0.78	3.62E-04
13-Mar-91	0.15	0.73	0.00	81.07	93.00	11.93	178.9	817.1	-3.07	1.63		1.54	7.23E-04
14-Mar-91	0.10	0.73	0.04	81.06	93.03	11.98	179.6	823.3	6.15	1.09	0.60	0.06	-7.78
15-Mar-91	0.26	0.73	0.09	80.92	93.07	12.14	180.3	829.4	6.17	2.85	1.35	0.14	-6.60
16-Mar-91	0.12	0.73	0.35	80.90	93.10	12.21	181.0	835.6	6.19	1.32	5.28	0.56	-7.55
17-Mar-91	0.14	0.73	0.63	81.12	93.14	12.01	181.7	841.8	6.22	1.55	9.54	1.01	-1.70
18-Mar-91	0.01	0.73	2.80	81.37	93.17	11.80	182.5	848.1	6.24	0.11	42.57	4.48	2.76
19-Mar-91	0.12	0.73	0.00	81.31	93.21	11.90	183.2	854.4	6.27	1.34		40.68	1.87E-02
20-Mar-91	0.18	0.73	0.00	81.27	93.24	11.97	183.9	860.7	6.29	2.01		-7.63	
21-Mar-91	0.17	0.73	0.00	81.32	93.22	11.90	183.5	857.0	-3.67	1.90		1.66	7.61E-04
22-Mar-91	0.20	0.73	0.00	81.36	93.20	11.84	183.1	853.3	-3.67	2.23		1.77	8.16E-04
23-Mar-91	0.18	0.73	0.00	81.34	93.18	11.84	182.6	849.7	-3.66	2.00		1.43	6.61E-04
24-Mar-91	0.17	0.73	0.00	81.42	93.16	11.74	182.2	846.0	-3.65	1.88		1.65	7.71E-04
25-Mar-91	0.16	0.73	0.00	81.42	93.14	11.72	181.8	842.4	-3.64	1.77		1.76	8.24E-04
26-Mar-91	0.13	0.73	0.00	81.50	93.12	11.62	181.4	838.7	-3.63	1.43		1.86	8.83E-04
27-Mar-91	0.19	0.73	0.00	81.53	93.10	11.57	181.0	835.1	-3.62	2.09		2.19	1.05E-03
28-Mar-91	0.23	0.73	0.00	81.63	93.08	11.45	180.6	832.0	-3.10	2.53		1.01	4.87E-04
29-Mar-91	0.18	0.73	0.00	81.73	93.07	11.33	180.3	828.9	-3.09	1.97		0.57	2.77E-04
30-Mar-91	0.28	0.73	0.86	81.80	93.05	11.25	179.9	825.8	-3.09	3.06	12.89	1.11	5.50E-04
31-Mar-91	0.09	0.73	0.00	81.78	93.03	11.25	179.5	822.7	-3.08	0.98		14.29	7.07E-03
01-Apr-91	0.14	0.84	0.00	81.71	93.01	11.31	179.2	819.7	-3.07	1.76		2.09	1.03E-03
02-Apr-91	0.20	0.84	0.00	81.69	93.00	11.31	178.8	816.6	-3.07	2.50		1.31	6.49E-04
03-Apr-91	0.23	0.84	0.00	81.65	92.98	11.33	178.5	813.5	-3.06	2.87		0.56	2.76E-04
04-Apr-91	0.20	0.84	0.00	81.66	92.98	11.32	178.4	813.0	-0.51	2.50		-2.36	
05-Apr-91	0.18	0.84	0.01	81.71	92.97	11.27	178.3	812.5	-0.51	2.25	0.15	0.02	-1.99
06-Apr-91	0.12	0.84	0.00	81.73	92.97	11.24	178.3	812.0	-0.51	1.50			-1.57
07-Apr-91	0.18	0.84	0.00	81.84	92.97	11.13	178.2	811.5	-0.51	2.25			-0.99
08-Apr-91	0.18	0.84	0.01	81.81	92.97	11.16	178.2	811.0	-0.51	2.24	0.15	0.02	-1.74
09-Apr-91	0.19	0.84	0.47	81.91	92.96	11.05	178.1	810.5	-0.51	2.37	6.98	0.75	-1.57
10-Apr-91	0.13	0.84	0.53	81.98	92.96	10.98	178.0	810.0	-0.51	1.62	7.86	0.85	5.87
11-Apr-91	0.17	0.84	0.10	81.94	92.94	11.00	177.6	806.4	-3.56	2.11	1.48	0.16	10.65
12-Apr-91	0.21	0.84	0.00	81.90	92.91	11.01	177.0	801.1	-5.32	2.60		4.85	2.49E-03
13-Apr-91	0.23	0.84	0.00	81.91	92.87	10.96	176.2	794.0	-7.06	2.84		4.46	2.31E-03
14-Apr-91	0.20	0.84	0.00	81.97	92.85	10.88	175.7	790.1	-3.96	2.46		1.12	5.87E-04
15-Apr-91	0.25	0.84	0.01	81.94	92.83	10.88	175.2	786.1	-3.95	3.07	0.15	0.02	1.49
16-Apr-91	0.17	0.84	0.00	81.92	92.80	10.88	174.7	782.2	-3.94	2.08		1.03	5.43E-04
17-Apr-91	0.20	0.84	0.00	81.99	92.78	10.79	174.3	778.3	-3.93	2.44		1.85	9.82E-04
18-Apr-91	0.10	0.84	0.64	82.15	92.99	10.84	178.7	815.3	37.06	1.25	9.53	1.02	-39.50
19-Apr-91	0.15	0.84	0.00	82.17	93.04	10.86	179.6	823.4	8.06	1.89		1.24	6.36E-04
20-Apr-91	0.11	0.84	1.30	82.18	93.08	10.90	180.5	831.5	8.10	1.39	19.56	2.08	-9.99
21-Apr-91	0.05	0.84	1.48	82.22	93.10	10.88	180.9	834.8	3.31	0.63	22.32	2.37	16.94

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Runoff Coeff. = 0.01		Leakage Volume (ac-ft)	Leakance (1/day)	
										Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)			
22-Apr-91	0.23	0.84	0.00	82.17	93.12	10.94	181.3	838.1	3.32	2.92		20.73	1.04E-02	
23-Apr-91	0.19	0.84	0.00	81.92	93.14	11.22	181.7	841.5	3.33	2.42		-6.25		
24-Apr-91	0.02	0.84	0.26	82.17	93.15	10.98	182.1	844.8	3.33	0.25	3.95	-5.75		
25-Apr-91	0.20	0.84	0.00	82.12	93.17	11.05	182.5	848.1	3.34	2.55		0.76	3.79E-04	
26-Apr-91	0.10	0.84	1.11	82.21	93.19	10.98	182.9	851.5	3.35	1.28	16.91	-5.90		
27-Apr-91	0.07	0.84	0.03	82.29	93.19	10.91	182.9	852.1	0.61	0.90	0.46	16.80	8.42E-03	
28-Apr-91	0.22	0.84	0.00	82.32	93.20	10.87	183.0	852.7	0.61	2.82		-1.00		
29-Apr-91	0.25	0.84	0.00	82.35	93.20	10.85	183.1	853.3	0.61	3.20		-3.43		
30-Apr-91	0.24	0.84	0.00	82.30	93.20	10.91	183.1	853.9	0.61	3.08		-3.81		
01-May-91	0.24	0.82	0.00	82.31	93.21	10.90	183.2	854.5	0.61	3.00		-3.69		
02-May-91	0.24	0.82	0.36	82.37	93.21	10.84	183.3	855.1	0.61	3.01	5.50	-3.62		
03-May-91	0.22	0.82	0.00	82.40	93.19	10.79	182.9	851.7	-3.43	2.75		6.50	3.29E-03	
04-May-91	0.22	0.82	0.00	82.35	93.17	10.82	182.5	848.3	-3.43	2.74		0.68	3.43E-04	
05-May-91	0.18	0.82	0.00	82.36	93.15	10.79	182.1	844.9	-3.42	2.24		0.67	3.43E-04	
06-May-91	0.24	0.82	0.00	82.35	93.14	10.78	181.7	841.5	-3.41	2.98		1.17	5.98E-04	
07-May-91	0.14	0.82	0.11	82.37	93.12	10.74	181.3	838.1	-3.40	1.73	1.66	0.42	2.17E-04	
08-May-91	0.19	0.82	0.08	82.36	93.10	10.74	180.9	834.7	-3.40	2.35	1.21	0.13	3.50	1.80E-03
09-May-91	0.28	0.82	0.00	82.31	93.08	10.76	180.5	831.3	-3.39	3.45		2.37	1.22E-03	
10-May-91	0.23	0.82	0.00	82.29	93.06	10.77	180.1	827.9	-3.38	2.83		-0.07		
11-May-91	0.23	0.82	0.02	82.37	93.06	10.69	180.1	827.9	0.00	2.83	0.30	0.03	-2.83	
12-May-91	0.18	0.82	0.40	82.51	93.06	10.55	180.1	827.9	0.00	2.22	6.00	0.64	-2.50	
13-May-91	0.20	0.82	0.00	82.52	93.06	10.54	180.1	827.9	0.00	2.46		4.43	2.33E-03	
14-May-91	0.22	0.82	0.30	82.54	93.06	10.52	180.1	827.9	0.00	2.71	4.50	0.48	-2.46	
15-May-91	0.27	0.82	0.00	82.45	93.06	10.61	180.1	827.9	0.00	3.32		2.28	1.19E-03	
16-May-91	0.28	0.82	0.00	82.41	93.06	10.65	180.1	827.9	0.00	3.45		-3.32		
17-May-91	0.26	0.82	0.50	82.50	93.06	10.56	180.1	827.9	0.00	3.20	7.51	0.80	-3.45	
18-May-91	0.21	0.82	0.00	82.50	93.06	10.56	180.1	827.9	0.00	2.58		5.11	2.68E-03	
19-May-91	0.29	0.82	0.00	82.50	93.05	10.55	179.9	826.1	-1.80	3.57		-0.78		
20-May-91	0.21	0.82	0.75	82.51	93.04	10.53	179.7	824.3	-1.80	2.58	11.23	1.20	-1.77	
21-May-91	0.21	0.82	0.00	82.48	93.03	10.55	179.5	822.5	-1.80	2.58		11.65	6.15E-03	
22-May-91	0.19	0.82	0.00	82.43	93.02	10.59	179.3	820.7	-1.79	2.33		-0.78		
23-May-91	0.19	0.82	0.01	82.42	93.01	10.59	179.1	818.9	-1.79	2.33	0.15	0.02	-0.54	
24-May-91	0.05	0.82	0.20	82.51	93.00	10.49	178.9	817.1	-1.79	0.61	2.98	0.32	-0.37	
25-May-91	0.09	0.82	0.08	82.55	92.99	10.44	178.7	815.9	-1.19	1.10	1.19	0.13	3.88	2.08E-03
26-May-91	0.28	0.82	0.00	82.56	92.99	10.42	178.6	814.7	-1.19	3.42		1.41	7.58E-04	
27-May-91	0.09	0.82	0.25	82.57	92.98	10.41	178.5	813.5	-1.19	1.10	3.72	0.40	-2.23	
28-May-91	0.24	0.82	0.70	82.51	92.97	10.46	178.3	812.4	-1.19	2.92	10.40	1.12	4.21	2.26E-03
29-May-91	0.21	0.82	0.00	82.49	92.97	10.48	178.2	811.2	-1.19	2.56		9.79	5.24E-03	
30-May-91	0.26	0.82	0.31	82.56	92.96	10.40	178.0	810.0	-1.19	3.16	4.60	0.50	-1.37	
31-May-91	0.15	0.82	0.03	82.48	92.92	10.44	177.2	802.9	-7.11	1.82	0.44	0.05	9.04	4.88E-03
01-Jun-91	0.09	0.85	1.67	82.56	92.88	10.32	176.4	795.8	-7.07	1.12	24.54	2.67	5.75	3.16E-03
02-Jun-91	0.24	0.85	0.00	82.61	92.91	10.30	177.0	801.1	5.30	3.01		20.79	1.14E-02	
03-Jun-91	0.28	0.85	0.00	82.58	92.94	10.36	177.6	806.4	5.32	3.52		-8.33		
04-Jun-91	0.20	0.85	0.00	82.63	92.97	10.34	178.2	811.8	5.34	2.53		-8.86		
05-Jun-91	0.29	0.85	1.03	82.68	93.00	10.32	178.9	817.1	5.36	3.67	15.35	1.65	-7.88	
06-Jun-91	0.17	0.85	0.42	82.73	93.02	10.29	179.3	820.7	3.58	2.16	6.28	0.67	9.75	5.28E-03
07-Jun-91	0.12	0.85	0.06	82.78	93.04	10.26	179.7	824.3	3.59	1.53	0.90	0.10	1.20	6.50E-04
08-Jun-91	0.04	0.85	0.09	82.83	93.06	10.23	180.1	827.9	3.60	0.51	1.35	0.14	-4.13	
09-Jun-91	0.22	0.85	0.00	82.88	93.08	10.20	180.5	831.5	3.61	2.81		-2.62		
10-Jun-91	0.30	0.85	0.00	82.93	93.10	10.17	181.0	835.1	3.62	3.85		-6.43		
11-Jun-91	0.25	0.85	0.00	82.99	93.12	10.13	181.4	838.7	3.62	3.21		-7.47		
12-Jun-91	0.22	0.85	0.00	83.04	93.14	10.10	181.8	842.4	3.63	2.83		-6.84		
13-Jun-91	0.29	0.85	0.00	83.09	93.13	10.04	181.6	840.5	-1.82	3.73		-1.02		
14-Jun-91	0.22	0.85	0.00	83.08	93.12	10.04	181.4	838.7	-1.82	2.83		-1.92		
15-Jun-91	0.22	0.85	0.00	83.17	93.11	9.94	181.2	837.3	-1.45	2.82		-1.38		
16-Jun-91	0.25	0.85	0.00	83.28	93.10	9.83	181.1	835.8	-1.45	3.21		-1.37		
17-Jun-91	0.23	0.85	0.00	83.31	93.10	9.79	180.9	834.4	-1.45	2.95		-1.76		
18-Jun-91	0.15	0.85	1.34	83.34	93.09	9.74	180.7	832.9	-1.45	1.92	20.18	2.14	-1.50	
19-Jun-91	0.12	0.85	0.07	83.31	93.08	9.77	180.5	831.5	-1.45	1.53	1.05	0.11	21.85	1.24E-02
20-Jun-91	0.12	0.85	0.20	83.31	93.08	9.77	180.5	831.5	0.00	1.53	3.01	0.32	-0.37	
21-Jun-91	0.26	0.85	0.00	83.33	93.08	9.75	180.5	831.5	0.00	3.33		1.79	1.02E-03	
22-Jun-91	0.27	0.85	0.00	83.32	93.08	9.76	180.5	831.5	0.00	3.45		-3.33		
23-Jun-91	0.27	0.85	0.00	83.34	93.08	9.74	180.5	831.5	0.00	3.45		-3.45		
24-Jun-91	0.26	0.85	0.00	83.30	93.08	9.78	180.5	831.5	0.00	3.33		-3.45		
25-Jun-91	0.23	0.85	0.32	83.36	93.08	9.72	180.5	831.5	0.00	2.94	4.81	0.51	-3.33	
26-Jun-91	0.24	0.85	0.06	83.41	93.08	9.67	180.5	831.5	0.00	3.07	0.90	0.10	2.39	1.37E-03
27-Jun-91	0.18	0.85	1.42	83.40	93.07	9.67	180.3	828.9	-2.58	2.30	21.33	2.27	0.51	2.91E-04
28-Jun-91	0.22	0.85	0.02	83.35	93.05	9.70	180.0	826.3	-2.57	2.80	0.30	0.03	23.88	1.37E-02
29-Jun-91	0.28	0.85	0.00	83.40	93.04	9.64	179.7	823.8	-2.57	3.56		0.10	5.57E-05	
30-Jun-91	0.13	0.85	0.13	83.49	93.02	9.54	179.4	821.2	-2.56	1.65	1.94	0.21	-1.00	

BROOKLYN LAKE DAILY WATER BUDGET: INTERMEDIATE AQUIFER vs LAKE STAGE

Runoff Coeff. = 0.01
 Drain. Area (ac) = 1920

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Intermed. Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H Lake - Intermed. (feet)	Lake Surface Area (acre)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jul-91	0.20	0.91	0.00	83.51	93.01	9.50	179.1	818.6	-2.56	2.72			3.06	1.80E-03
02-Jul-91	0.19	0.91	0.14	83.49	92.99	9.51	178.8	816.1	-2.56	2.58	2.09	0.22	-0.16	
03-Jul-91	0.23	0.91	0.00	83.44	92.98	9.54	178.5	813.5	-2.55	3.11			2.29	1.34E-03
04-Jul-91	0.23	0.91	0.08	83.45	92.97	9.52	178.3	812.0	-1.53	3.11	1.19	0.13	-1.58	
05-Jul-91	0.30	0.91	0.17	83.41	92.96	9.55	178.1	810.5	-1.53	4.05	2.52	0.27	-0.27	
06-Jul-91	0.16	0.91	0.04	83.43	92.95	9.53	177.9	809.0	-1.53	2.16	0.59	0.06	0.27	1.59E-04
07-Jul-91	0.16	0.91	0.00	83.47	92.95	9.48	177.7	807.4	-1.52	2.16			0.02	1.35E-05
08-Jul-91	0.17	0.91	0.00	83.48	92.94	9.46	177.6	805.9	-1.52	2.29			-0.63	
09-Jul-91	0.21	0.91	0.26	83.54	92.93	9.39	177.4	804.4	-1.52	2.82	3.84	0.42	-0.77	
10-Jul-91	0.13	0.91	0.47	83.55	92.92	9.37	177.2	802.9	-1.52	1.75	6.94	0.75	2.95	1.78E-03
11-Jul-91	0.13	0.91	1.09	83.55	92.93	9.38	177.4	804.4	1.52	2.29	16.11	1.74	4.43	2.66E-03
12-Jul-91	0.10	0.91	0.10	83.56	92.94	9.37	177.6	805.9	1.52	1.35	1.48	0.16	14.05	8.44E-03
13-Jul-91	0.07	0.91	0.00	83.56	92.95	9.38	177.7	807.4	1.52	0.94			-1.23	
14-Jul-91	0.12	0.91	0.00	83.55	92.95	9.40	177.9	809.0	1.52	1.62			-2.47	
15-Jul-91	0.13	0.91	0.02	83.51	92.96	9.45	178.1	810.5	1.53	1.76	0.30	0.03	-3.14	
16-Jul-91	0.23	0.91	0.02	83.54	92.97	9.43	178.3	812.0	1.53	3.11	0.30	0.03	-2.95	
17-Jul-91	0.22	0.91	0.00	83.53	92.98	9.45	178.5	813.5	1.53	2.98			-4.31	
18-Jul-91	0.22	0.91	0.00	83.55	92.99	9.44	178.8	816.1	2.55	2.98			-5.53	
19-Jul-91	0.13	0.91	0.01	83.56	93.01	9.45	179.1	818.6	2.56	1.77	0.15	0.02	-5.54	
20-Jul-91	0.31	0.91	0.94	83.56	93.02	9.46	179.4	821.2	2.56	4.22	14.05	1.50	-4.16	
21-Jul-91	0.18	0.91	0.00	83.56	93.04	9.47	179.7	823.8	2.56	2.45			8.77	5.15E-03
22-Jul-91	0.23	0.91	0.00	83.59	93.05	9.46	180.0	826.3	2.57	3.14			-5.02	
23-Jul-91	0.25	0.91	0.00	83.69	93.07	9.38	180.3	828.9	2.57	3.42			-5.71	
24-Jul-91	0.18	0.91	0.00	83.78	93.08	9.30	180.5	831.5	2.58	2.46			-5.99	
25-Jul-91	0.17	0.91	0.53	83.74	93.10	9.36	181.0	835.1	3.62	2.33	7.99	0.85	-6.08	
26-Jul-91	0.18	0.91	0.00	83.80	93.12	9.32	181.4	838.7	3.62	2.48			2.88	1.71E-03
27-Jul-91	0.14	0.91	0.76	83.83	93.14	9.31	181.8	842.4	3.63	1.93	11.51	1.22	-6.11	
28-Jul-91	0.13	0.91	1.18	83.86	93.16	9.30	182.2	846.0	3.64	1.80	17.92	1.89	7.16	4.22E-03
29-Jul-91	0.14	0.91	0.35	83.87	93.20	9.33	183.1	853.3	7.31	1.94	5.34	0.56	10.70	6.27E-03
30-Jul-91	0.12	0.91	0.42	83.91	93.24	9.33	183.9	860.7	7.34	1.67	6.44	0.67	-3.38	
31-Jul-91	0.14	0.91	0.77	83.94	93.28	9.34	184.7	868.0	7.37	1.96	11.85	1.23	-1.94	
01-Aug-91	0.09	0.91	1.48	84.10	93.32	9.22	185.6	875.4	7.41	1.27	22.89	2.37	3.72	2.17E-03
02-Aug-91	0.05	0.91	0.13	84.08	93.36	9.28	186.4	882.9	7.44	0.71	2.02	0.21	16.55	9.56E-03
03-Aug-91	0.17	0.91	0.08	84.12	93.40	9.28	187.3	890.3	7.47	2.41	1.25	0.13	-5.95	
04-Aug-91	0.14	0.91	0.02	84.21	93.44	9.23	188.1	897.9	7.51	2.00	0.31	0.03	-8.54	
05-Aug-91	0.22	0.91	0.08	84.27	93.48	9.21	188.9	905.4	7.54	3.15	1.26	0.13	-9.19	
06-Aug-91	0.15	0.91	0.07	84.21	93.52	9.31	189.8	913.0	7.57	2.16	1.11	0.11	-9.34	
07-Aug-91	0.24	0.91	0.00	84.23	93.54	9.31	190.2	916.8	3.80	3.46			-4.74	
08-Aug-91	0.25	0.91	0.00	84.25	93.53	9.28	190.0	914.9	-1.90	3.60			-1.56	
09-Aug-91	0.21	0.91	0.07	84.31	93.52	9.21	189.8	913.0	-1.90	3.02	1.11	0.11	-1.70	
10-Aug-91	0.13	0.91	0.00	84.30	93.51	9.21	189.6	911.1	-1.90	1.87			0.09	5.36E-05
11-Aug-91	0.20	0.91	0.16	84.25	93.50	9.25	189.3	909.2	-1.89	2.87	2.52	0.26	0.03	1.48E-05
12-Aug-91	0.25	0.91	0.00	84.26	93.49	9.23	189.1	907.3	-1.89	3.59			1.80	1.03E-03
13-Aug-91	0.10	0.91	0.05	84.27	93.48	9.21	188.9	905.4	-1.89	1.43	0.79	0.08	-1.70	
14-Aug-91	0.24	0.91	0.00	84.25	93.48	9.23	189.0	905.9	0.47	3.44			-1.04	
15-Aug-91	0.29	0.91	0.00	84.24	93.49	9.25	189.0	906.3	0.47	4.16			-3.91	
16-Aug-91	0.18	0.91	0.61	84.28	93.49	9.21	189.1	906.8	0.47	2.58	9.61	0.98	-4.63	
17-Aug-91	0.20	0.91	0.00	84.29	93.49	9.20	189.1	907.3	0.47	2.87			7.53	4.33E-03
18-Aug-91	0.25	0.91	0.00	84.29	93.49	9.21	189.2	907.8	0.47	3.59			-3.34	
19-Aug-91	0.17	0.91	0.00	84.23	93.50	9.27	189.2	908.2	0.47	2.44			-4.06	
20-Aug-91	0.16	0.91	0.14	84.25	93.50	9.25	189.3	908.7	0.47	2.30	2.21	0.22	-2.91	
21-Aug-91	0.14	0.91	0.01	84.17	93.50	9.33	189.3	909.2	0.47	2.01	0.16	0.02	-0.34	
22-Aug-91	0.23	0.91	0.00	84.14	93.53	9.38	189.9	914.1	4.88	3.31			-6.71	
23-Aug-91	0.20	0.91	0.00	84.13	93.55	9.42	190.4	918.9	4.89	2.89			-8.20	
24-Aug-91	0.17	0.91	0.54	84.20	93.58	9.38	191.0	923.8	4.90	2.46	8.59	0.86	-7.79	
25-Aug-91	0.10	0.91	0.13	84.24	93.60	9.36	191.5	928.8	4.92	1.45	2.07	0.21	2.08	1.16E-03
26-Aug-91	0.13	0.91	0.00	84.27	93.63	9.36	192.0	933.7	4.93	1.89			-4.10	
27-Aug-91	0.05	0.91	2.74	84.20	93.65	9.45	192.6	938.6	4.95	0.73	43.97	4.38	-6.84	
28-Aug-91	0.15	0.91	0.67	84.19	93.68	9.49	193.1	943.6	4.96	2.20	10.78	1.07	42.67	2.33E-02
29-Aug-91	0.21	0.91	0.64	84.32	93.68	9.36	193.2	944.2	0.55	3.08	10.30	1.02	9.11	5.03E-03
30-Aug-91	0.14	0.91	0.00	84.19	93.69	9.49	193.2	944.7	0.55	2.05			7.70	4.20E-03
31-Aug-91	0.13	0.91	0.02	84.18	93.69	9.51	193.3	945.3	0.55	1.91	0.32	0.03	-2.60	

Average = 1.605E-03
 Variance = 9.190E-06
 Std. Dev. = 3.031E-03

D6. Lake Geneva Daily Water Budget

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
01-Jan-89	0.06	0.77	0.00	82.52	98.23	15.71	1562.4	16763.0	NA	6.02			NA	NA
02-Jan-89	0.08	0.77	0.00	82.51	98.22	15.71	1561.7	16747.4	-15.62	8.02			9.81	3.914E-04
03-Jan-89	0.08	0.77	0.00	82.53	98.22	15.69	1561.7	16747.4	0.00	8.02			-8.02	
04-Jan-89	0.16	0.77	0.00	82.38	98.21	15.83	1561.0	16731.8	-15.61	16.03			7.60	3.074E-04
05-Jan-89	0.15	0.77	0.00	82.29	98.20	15.91	1560.4	16718.4	-13.38	15.02			-2.65	
06-Jan-89	0.10	0.77	0.00	82.31	98.19	15.89	1559.8	16705.0	-13.37	10.01			-1.65	
07-Jan-89	0.10	0.77	0.00	82.27	98.18	15.91	1559.2	16691.7	-13.37	10.00			3.36	1.353E-04
08-Jan-89	0.10	0.77	0.00	82.29	98.18	15.89	1558.5	16678.3	-13.36	10.00			3.36	1.356E-04
09-Jan-89	0.09	0.77	0.00	82.28	98.17	15.89	1557.9	16665.0	-13.36	9.00			3.36	1.356E-04
10-Jan-89	0.07	0.77	0.00	82.21	98.16	15.94	1557.3	16651.6	-13.35	6.99			4.35	1.754E-04
11-Jan-89	0.03	0.77	0.00	82.19	98.15	15.96	1556.7	16638.3	-13.35	3.00			6.35	2.556E-04
12-Jan-89	0.02	0.77	0.00	82.19	98.14	15.96	1556.3	16629.4	-8.89	2.00			5.90	2.375E-04
13-Jan-89	0.05	0.77	0.00	82.21	98.14	15.93	1555.9	16620.5	-8.89	4.99			6.89	2.781E-04
14-Jan-89	0.14	0.77	0.00	82.14	98.13	15.99	1555.5	16611.6	-8.89	13.97			3.90	1.567E-04
15-Jan-89	0.09	0.77	0.00	82.17	98.13	15.96	1555.1	16602.7	-8.89	8.98			-5.09	
16-Jan-89	0.11	0.77	0.00	82.14	98.12	15.98	1554.7	16593.8	-8.89	10.97			-0.10	
17-Jan-89	0.19	0.77	0.00	82.08	98.12	16.04	1554.3	16584.9	-8.88	18.95			-2.09	
18-Jan-89	0.09	0.77	0.00	82.10	98.11	16.01	1553.9	16576.1	-8.88	8.97			-10.07	
19-Jan-89	0.10	0.77	0.00	82.10	98.11	16.01	1553.9	16576.1	0.00	9.97			-8.97	
20-Jan-89	0.10	0.77	0.00	82.14	98.11	15.97	1553.9	16576.1	0.00	9.97			-9.97	
21-Jan-89	0.10	0.77	0.18	82.12	98.11	15.99	1553.9	16576.1	0.00	9.97	23.31	1.74	-9.97	
22-Jan-89	0.07	0.77	0.96	82.28	98.11	15.83	1553.9	16576.1	0.00	6.98	124.31	9.27	15.07	6.128E-04
23-Jan-89	0.03	0.77	0.01	82.24	98.11	15.87	1553.9	16576.1	0.00	2.99	1.29	0.10	126.60	5.134E-03
24-Jan-89	0.12	0.77	0.00	82.14	98.11	15.97	1553.9	16576.1	0.00	11.96			-1.60	
25-Jan-89	0.13	0.77	0.00	82.10	98.11	16.01	1553.9	16576.1	0.00	12.96			-11.96	
26-Jan-89	0.14	0.77	0.00	82.06	98.11	16.05	1553.9	16576.1	0.00	13.96			-12.96	
27-Jan-89	0.10	0.77	0.00	82.11	98.11	16.00	1553.9	16576.1	0.00	9.97			-13.96	
28-Jan-89	0.13	0.77	0.00	82.08	98.10	16.02	1553.2	16560.5	-15.54	12.96			5.56	2.236E-04
29-Jan-89	0.11	0.77	0.00	82.11	98.10	15.99	1553.2	16560.5	0.00	10.96			-12.96	
30-Jan-89	0.11	0.77	0.00	82.14	98.09	15.95	1552.4	16545.0	-15.53	10.96			4.57	1.844E-04
31-Jan-89	0.12	0.77	0.00	82.07	98.09	16.02	1552.4	16545.0	0.00	11.95			-10.96	
01-Feb-89	0.16	0.69	0.00	82.00	98.09	16.09	1552.4	16545.0	0.00	14.28			-11.95	
02-Feb-89	0.09	0.69	0.00	81.95	98.08	16.13	1551.7	16529.5	-15.52	8.03			1.24	4.948E-05
03-Feb-89	0.13	0.69	0.00	81.90	98.08	16.18	1551.7	16529.5	0.00	11.60			-8.03	
04-Feb-89	0.13	0.69	0.00	81.92	98.07	16.15	1551.0	16514.0	-15.51	11.59			3.91	1.563E-04
05-Feb-89	0.12	0.69	0.00	81.97	98.07	16.10	1551.0	16514.0	0.00	10.70			-11.59	
06-Feb-89	0.16	0.69	0.00	81.98	98.06	16.08	1550.3	16498.5	-15.51	14.26			4.80	1.927E-04
07-Feb-89	0.17	0.69	0.00	81.93	98.06	16.13	1550.3	16498.5	0.00	15.15			-14.26	
08-Feb-89	0.07	0.69	0.00	81.87	98.05	16.18	1549.6	16483.0	-15.50	6.24			0.35	1.377E-05
09-Feb-89	0.21	0.69	0.00	81.75	98.01	16.26	1546.8	16421.0	-61.93	18.68			55.69	2.214E-03
10-Feb-89	0.16	0.69	0.00	81.74	97.99	16.25	1545.6	16395.3	-25.77	14.22			7.09	2.823E-04
11-Feb-89	0.14	0.69	0.00	81.79	97.98	16.19	1544.4	16369.5	-25.75	12.43			11.53	4.611E-04
12-Feb-89	0.13	0.69	0.00	81.75	97.96	16.21	1543.2	16343.8	-25.73	11.54			13.30	5.315E-04
13-Feb-89	0.12	0.69	0.00	81.70	97.94	16.24	1542.0	16318.1	-25.71	10.64			14.17	5.660E-04
14-Feb-89	0.14	0.69	0.00	81.63	97.93	16.30	1540.8	16292.4	-25.69	12.40			15.05	5.994E-04
15-Feb-89	0.17	0.69	0.00	81.59	97.91	16.32	1539.6	16266.7	-25.67	15.05			13.27	5.281E-04
16-Feb-89	0.17	0.69	0.00	81.61	97.91	16.30	1539.6	16266.7	0.00	15.05			-15.05	
17-Feb-89	0.15	0.69	0.00	81.64	97.92	16.28	1540.3	16282.1	15.40	13.29			-30.45	
18-Feb-89	0.09	0.69	0.00	81.67	97.93	16.26	1541.1	16297.5	15.41	7.97			-28.69	
19-Feb-89	0.04	0.69	0.00	81.69	97.94	16.25	1541.8	16312.9	15.41	3.55			-23.39	
20-Feb-89	0.08	0.69	0.00	81.72	97.95	16.23	1542.5	16328.3	15.42	7.10			-18.97	
21-Feb-89	0.14	0.69	0.00	81.75	97.96	16.21	1543.2	16343.8	15.43	12.42			-22.52	
22-Feb-89	0.21	0.69	0.84	81.79	97.97	16.18	1543.9	16359.2	15.44	18.64	108.07	8.11	-27.86	
23-Feb-89	0.15	0.69	0.00	81.66	97.95	16.29	1542.3	16323.9	-35.27	13.30			132.81	5.286E-03
24-Feb-89	0.14	0.69	0.00	81.46	97.92	16.47	1540.7	16288.7	-35.23	12.40			21.93	8.644E-04
25-Feb-89	0.14	0.69	0.00	81.42	97.90	16.48	1539.0	16253.5	-35.20	12.39			22.79	8.987E-04
26-Feb-89	0.14	0.69	0.00	81.48	97.88	16.39	1537.4	16218.4	-35.16	12.38			22.77	9.034E-04
27-Feb-89	0.15	0.69	0.00	81.60	97.86	16.25	1535.8	16183.2	-35.12	13.25			22.75	9.113E-04
28-Feb-89	0.19	0.69	0.00	81.57	97.83	16.27	1534.1	16148.1	-35.08	16.76			21.84	8.751E-04
01-Mar-89	0.20	0.73	0.00	81.51	97.81	16.30	1532.5	16113.1	-35.05	18.65			18.29	7.321E-04
02-Mar-89	0.11	0.73	0.92	81.64	97.82	16.18	1533.5	16135.0	21.90	10.26	117.57	8.88	-40.55	
03-Mar-89	0.01	0.73	0.21	81.70	97.84	16.14	1534.5	16156.9	21.91	0.93	26.85	2.03	94.28	3.808E-03
04-Mar-89	0.13	0.73	0.13	81.64	97.85	16.21	1535.6	16178.8	21.93	12.14	16.64	1.25	6.02	2.418E-04
05-Mar-89	0.18	0.73	0.00	81.63	97.87	16.24	1536.6	16200.8	21.94	16.83			-16.20	
06-Mar-89	0.19	0.73	0.00	81.63	97.88	16.25	1537.6	16222.7	21.96	17.77			-38.78	
07-Mar-89	0.15	0.73	0.00	81.60	97.90	16.29	1538.6	16244.7	21.97	14.04			-39.75	
08-Mar-89	0.09	0.73	0.00	81.53	97.91	16.38	1539.6	16266.7	21.99	8.43			-36.03	
09-Mar-89	0.05	0.73	0.00	81.49	97.90	16.41	1538.9	16251.3	-15.39	4.68			6.96	2.758E-04
10-Mar-89	0.04	0.73	0.00	81.48	97.89	16.41	1538.2	16235.9	-15.39	3.74			10.70	4.242E-04
11-Mar-89	0.21	0.73	0.00	81.46	97.88	16.42	1537.5	16220.5	-15.38	19.64			11.64	4.608E-04
12-Mar-89	0.19	0.73	0.00	81.48	97.87	16.39	1536.8	16205.2	-15.37	17.76			-4.27	

LAKE GENEVA DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 11584	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
13-Mar-89	0.23	0.73	0.00	81.47	97.86	16.39	1536.1	16189.8	-15.36	21.49				-2.40	
14-Mar-89	0.20	0.73	0.00	81.43	97.85	16.42	1535.4	16174.5	-15.36	18.68				-6.14	
15-Mar-89	0.30	0.73	0.00	81.37	97.85	16.48	1535.4	16174.5	0.00	28.02				-18.68	
16-Mar-89	0.19	0.73	0.00	81.29	97.84	16.55	1534.7	16159.1	-15.35	17.74				-12.67	
17-Mar-89	0.23	0.73	0.00	81.22	97.84	16.62	1534.7	16159.1	0.00	21.47				-17.74	
18-Mar-89	0.23	0.73	0.00	81.17	97.83	16.66	1533.9	16143.8	-15.34	21.46				-6.13	
19-Mar-89	0.19	0.73	0.00	81.14	97.83	16.69	1533.9	16143.8	0.00	17.73				-21.46	
20-Mar-89	0.26	0.73	0.00	81.15	97.82	16.67	1533.2	16128.4	-15.34	24.25				-2.39	
21-Mar-89	0.15	0.73	0.00	81.18	97.82	16.64	1533.2	16128.4	0.00	13.99				-24.25	
22-Mar-89	0.22	0.73	0.00	81.17	97.81	16.64	1532.5	16113.1	-15.33	20.51			1.34	5.248E-05	
23-Mar-89	0.14	0.73	0.22	81.27	97.80	16.53	1531.8	16097.8	-15.32	13.05	28.08	2.12	-5.19		
24-Mar-89	0.17	0.73	0.08	81.23	97.80	16.57	1531.8	16097.8	0.00	15.84	10.21	0.77	17.16	6.761E-04	
25-Mar-89	0.12	0.73	0.00	81.20	97.79	16.59	1531.1	16082.5	-15.31	11.18			10.46	4.117E-04	
26-Mar-89	0.12	0.73	0.00	81.18	97.79	16.61	1531.1	16082.5	0.00	11.18			-11.18		
27-Mar-89	0.21	0.73	0.00	81.11	97.78	16.67	1530.4	16067.2	-15.31	19.55			4.13	1.619E-04	
28-Mar-89	0.21	0.73	0.00	81.09	97.78	16.69	1530.4	16067.2	0.00	19.55			-19.55		
29-Mar-89	0.26	0.73	0.00	81.09	97.77	16.68	1529.7	16051.9	-15.30	24.19			-4.25		
30-Mar-89	0.19	0.73	0.00	81.15	97.75	16.61	1528.5	16027.0	-24.85	17.67			0.65	2.574E-05	
31-Mar-89	0.17	0.73	0.00	81.13	97.74	16.61	1527.4	16002.2	-24.83	15.80			7.16	2.823E-04	
01-Apr-89	0.38	0.84	0.00	80.94	97.72	16.78	1526.2	15977.4	-24.81	40.60			9.01	3.519E-04	
02-Apr-89	0.23	0.84	0.00	80.87	97.71	16.83	1525.0	15952.6	-24.79	24.55			-15.81		
03-Apr-89	0.23	0.84	0.00	80.85	97.69	16.83	1523.9	15927.8	-24.77	24.53			0.22	8.551E-06	
04-Apr-89	0.18	0.84	0.00	80.82	97.67	16.85	1522.7	15903.0	-24.75	19.19			0.22	8.540E-06	
05-Apr-89	0.23	0.84	0.19	80.90	97.66	16.76	1521.6	15878.3	-24.73	24.50	24.09	1.83	5.55	2.176E-04	
06-Apr-89	0.17	0.84	0.12	80.96	97.64	16.68	1520.4	15853.6	-24.72	18.09	15.20	1.16	26.14	1.031E-03	
07-Apr-89	0.27	0.84	0.00	81.01	97.63	16.62	1519.7	15838.4	-15.20	28.72			13.47	5.333E-04	
08-Apr-89	0.22	0.84	0.00	80.97	97.62	16.65	1518.9	15820.4	-18.01	23.39			-10.72		
09-Apr-89	0.25	0.84	0.00	80.88	97.61	16.72	1518.0	15802.4	-18.00	26.57			-5.39		
10-Apr-89	0.25	0.84	0.00	80.80	97.59	16.79	1517.2	15784.4	-17.99	26.55			-8.58		
11-Apr-89	0.23	0.84	0.08	80.78	97.58	16.80	1516.3	15766.4	-17.98	24.41	10.11	0.77	-8.57	1.747E-04	
12-Apr-89	0.04	0.84	0.13	80.82	97.57	16.75	1515.5	15748.5	-17.97	4.24	16.42	1.25	4.43	1.239E-03	
13-Apr-89	0.15	0.84	0.00	80.84	97.56	16.72	1514.6	15730.5	-17.96	15.90			31.39	8.057E-05	
14-Apr-89	0.12	0.84	0.00	80.80	97.55	16.75	1513.8	15712.6	-17.95	12.72			2.04	2.074E-04	
15-Apr-89	0.16	0.84	0.75	80.90	97.54	16.64	1513.0	15694.6	-17.94	16.95	94.56	7.24	5.22	4.078E-03	
16-Apr-89	0.10	0.84	0.06	80.85	97.52	16.67	1512.1	15676.7	-17.93	10.58	7.56	0.58	102.78	6.102E-04	
17-Apr-89	0.20	0.84	0.00	80.74	97.51	16.78	1511.3	15658.8	-17.92	21.16			15.47		
18-Apr-89	0.24	0.84	0.00	80.74	97.50	16.76	1510.4	15640.9	-17.91	25.38			-3.25		
19-Apr-89	0.21	0.84	0.00	80.74	97.49	16.75	1509.6	15623.0	-17.90	22.19			-7.48		
20-Apr-89	0.21	0.84	0.00	80.73	97.48	16.75	1508.7	15605.1	-17.89	22.18			-4.30		
21-Apr-89	0.17	0.84	0.01	80.74	97.46	16.72	1507.9	15587.2	-17.88	17.94	1.26	0.10	-4.30		
22-Apr-89	0.13	0.84	0.00	80.64	97.45	16.82	1507.0	15569.4	-17.87	13.71			1.28	5.033E-05	
23-Apr-89	0.21	0.84	0.00	80.55	97.44	16.89	1506.2	15551.5	-17.86	22.14			4.14	1.628E-04	
24-Apr-89	0.23	0.84	0.00	80.50	97.43	16.93	1505.4	15533.7	-17.85	24.24			-4.29		
25-Apr-89	0.26	0.84	0.00	80.50	97.42	16.92	1504.5	15515.8	-17.84	27.38			-6.40		
26-Apr-89	0.27	0.84	0.00	80.47	97.40	16.93	1503.7	15498.0	-17.83	28.42			-9.56		
27-Apr-89	0.27	0.84	0.00	80.44	97.39	16.95	1502.8	15480.2	-17.82	28.40			-10.60		
28-Apr-89	0.29	0.84	0.00	80.38	97.38	17.00	1502.0	15462.4	-17.81	30.49			-10.60		
29-Apr-89	0.28	0.84	0.00	80.30	97.37	17.07	1501.1	15444.6	-17.80	29.42			-12.69		
30-Apr-89	0.28	0.84	0.00	80.29	97.36	17.07	1500.3	15426.8	-17.79	29.41			-11.84		
01-May-89	0.22	0.82	0.08	80.44	97.35	16.90	1499.5	15409.0	-17.78	22.54	10.00	0.77	-11.83		
02-May-89	0.13	0.82	0.59	80.46	97.33	16.87	1498.6	15391.2	-17.77	13.31	73.68	5.70	5.99	2.370E-04	
03-May-89	0.27	0.82	0.00	80.37	97.32	16.95	1497.8	15373.5	-17.76	27.63			83.82	3.301E-03	
04-May-89	0.25	0.82	0.00	80.33	97.31	16.98	1496.9	15355.7	-17.75	25.57			-9.89		
05-May-89	0.22	0.82	0.00	80.31	97.28	16.98	1495.1	15317.3	-38.47	22.48			12.90	5.081E-04	
06-May-89	0.26	0.82	0.00	80.32	97.26	16.93	1493.3	15278.8	-38.42	26.53			15.95	6.306E-04	
07-May-89	0.30	0.82	0.10	80.33	97.23	16.90	1491.4	15240.5	-38.37	30.57	12.43	0.97	11.84	4.699E-04	
08-May-89	0.39	0.82	0.00	80.27	97.21	16.94	1489.6	15202.1	-38.33	39.70			21.15	8.382E-04	
09-May-89	0.24	0.82	0.00	80.24	97.18	16.94	1487.8	15163.9	-38.28	24.40			-1.42		
10-May-89	0.31	0.82	0.00	80.29	97.16	16.87	1485.9	15125.6	-38.23	31.48			13.83	5.519E-04	
11-May-89	0.16	0.82	0.30	80.33	97.13	16.80	1484.1	15087.4	-38.19	16.23	37.10	2.90	6.71	2.692E-04	
12-May-89	0.27	0.82	0.00	80.28	97.11	16.83	1482.7	15057.8	-29.67	27.36			53.44	2.141E-03	
13-May-89	0.32	0.82	0.00	80.22	97.09	16.87	1481.3	15028.1	-29.64	32.39			2.28	9.137E-05	
14-May-89	0.16	0.82	0.00	80.14	97.07	16.93	1479.8	14998.5	-29.61	16.18			-2.78		
15-May-89	0.28	0.82	0.00	80.05	97.05	17.00	1478.4	14968.9	-29.58	28.29			13.40	5.333E-04	
16-May-89	0.31	0.82	0.00	80.01	97.03	17.02	1477.0	14939.4	-29.55	31.29			1.27	5.039E-05	
17-May-89	0.31	0.82	0.00	79.94	97.01	17.07	1475.6	14909.9	-29.53	31.26			-1.76		
18-May-89	0.32	0.82	0.00	79.87	97.00	17.13	1474.9	14895.1	-14.75	32.25			-16.51		
19-May-89	0.31	0.82	0.00	79.88	97.00	17.12	1474.9	14895.1	0.00	31.24			-32.25		
20-May-89	0.19	0.82	0.00	79.85	96.99	17.14	1474.1	14880.4	-14.75	19.14			-16.50		
21-May-89	0.20	0.82	0.02	79.88	96.99	17.11	1474.1	14880.4	0.00	20.15	2.46	0.19	-19.14		

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
22-May-89	0.25	0.82	0.74	80.03	96.98	16.95	1473.4	14865.6	-14.74	25.17	90.86	7.14	-2.76	
23-May-89	0.22	0.82	0.00	79.98	96.98	17.00	1473.4	14865.6	0.00	22.15			72.83	2.907E-03
24-May-89	0.23	0.82	0.00	79.97	96.97	17.00	1472.7	14850.9	-14.73	23.15			-7.42	
25-May-89	0.16	0.82	0.10	79.94	96.95	17.01	1471.1	14817.3	-33.64	16.08	12.26	0.97	10.50	4.196E-04
26-May-89	0.23	0.82	0.00	79.80	96.92	17.12	1469.5	14783.6	-33.61	23.10			30.75	1.222E-03
27-May-89	0.28	0.82	0.00	79.70	96.90	17.20	1467.8	14750.1	-33.57	28.08			10.47	4.149E-04
28-May-89	0.33	0.82	0.00	79.65	96.88	17.23	1466.2	14716.5	-33.53	33.06			5.45	2.156E-04
29-May-89	0.36	0.82	0.00	79.59	96.86	17.27	1464.6	14683.0	-33.49	36.03			0.43	1.707E-05
30-May-89	0.25	0.82	0.05	79.59	96.83	17.24	1463.0	14649.6	-33.46	24.99	6.10	0.48	-2.57	
31-May-89	0.30	0.82	0.00	79.57	96.81	17.24	1461.3	14616.2	-33.42	29.96			15.01	5.956E-04
01-Jun-89	0.35	0.85	0.00	79.53	96.82	17.29	1462.0	14630.8	14.62	36.25			-44.57	
02-Jun-89	0.34	0.85	0.00	79.48	96.83	17.35	1462.8	14645.4	14.62	35.23			-50.87	
03-Jun-89	0.28	0.85	0.00	79.46	96.84	17.38	1463.5	14660.0	14.63	29.03			-49.86	
04-Jun-89	0.33	0.85	0.00	79.41	96.85	17.44	1464.2	14674.7	14.64	34.23			-43.66	
05-Jun-89	0.30	0.85	0.00	79.44	96.86	17.42	1464.9	14689.3	14.65	31.13			-48.87	
06-Jun-89	0.27	0.85	0.00	79.62	96.86	17.24	1464.9	14689.3	0.00	28.02			-31.13	
07-Jun-89	0.12	0.85	0.47	79.73	96.85	17.12	1464.2	14674.7	-14.65	12.45	57.35	4.54	-13.37	
08-Jun-89	0.11	0.85	0.01	79.71	96.84	17.13	1463.5	14660.0	-14.64	11.40	1.22	0.10	64.08	2.556E-03
09-Jun-89	0.15	0.85	0.81	79.73	96.83	17.10	1462.8	14645.4	-14.63	15.54	98.74	7.82	4.54	1.817E-04
10-Jun-89	0.28	0.85	0.00	79.62	96.81	17.19	1461.3	14616.2	-29.24	28.98			120.25	4.788E-03
11-Jun-89	0.30	0.85	0.00	79.58	96.80	17.22	1460.6	14601.6	-14.61	31.04			-14.37	
12-Jun-89	0.27	0.85	0.00	79.58	96.79	17.21	1459.9	14587.0	-14.60	27.92			-16.44	
13-Jun-89	0.26	0.85	0.00	79.57	96.78	17.21	1459.2	14572.4	-14.60	26.87			-13.33	
14-Jun-89	0.29	0.85	0.00	79.49	96.77	17.28	1458.5	14557.8	-14.59	29.96			-12.29	
15-Jun-89	0.31	0.85	0.00	79.42	96.77	17.35	1458.5	14557.8	0.00	32.03			-29.96	
16-Jun-89	0.28	0.85	0.00	79.43	96.77	17.34	1458.5	14557.8	0.00	28.93			-32.03	
17-Jun-89	0.33	0.85	1.31	79.40	96.78	17.38	1459.2	14572.4	14.59	34.11	159.30	12.65	-43.52	
18-Jun-89	0.14	0.85	0.02	79.41	96.78	17.37	1459.2	14572.4	0.00	14.47	2.43	0.19	137.83	5.439E-03
19-Jun-89	0.40	0.85	0.94	79.54	96.78	17.24	1459.2	14572.4	0.00	41.34	114.30	9.07	-11.85	
20-Jun-89	0.31	0.85	0.09	79.58	96.79	17.21	1459.9	14587.0	14.60	32.06	10.95	0.87	87.44	2.684E-03
21-Jun-89	0.15	0.85	1.72	79.52	96.79	17.27	1459.9	14587.0	0.00	15.51	209.25	16.60	-20.24	
22-Jun-89	0.25	0.85	1.72	79.52	96.78	17.26	1459.2	14572.4	-14.60	25.84	209.15	16.60	224.94	8.932E-03
23-Jun-89	0.32	0.85	0.00	79.53	96.77	17.24	1458.5	14557.8	-14.59	33.06			214.50	8.531E-03
24-Jun-89	0.13	0.85	0.70	79.57	96.76	17.19	1457.8	14543.2	-14.58	13.42	85.04	6.76	-18.48	
25-Jun-89	0.15	0.85	0.00	79.55	96.74	17.19	1456.4	14514.1	-29.14	15.47			107.51	4.294E-03
26-Jun-89	0.21	0.85	0.00	79.49	96.73	17.24	1455.6	14499.5	-14.56	21.65			-0.91	
27-Jun-89	0.25	0.85	0.00	79.44	96.72	17.28	1454.9	14484.9	-14.55	25.76			-7.10	
28-Jun-89	0.30	0.85	0.00	79.37	96.71	17.34	1454.2	14470.4	-14.55	30.90			-11.22	
29-Jun-89	0.25	0.85	2.20	79.37	96.73	17.36	1455.6	14499.5	29.10	25.78	266.87	21.24	-60.00	
30-Jun-89	0.18	0.85	0.67	79.44	96.75	17.31	1457.1	14528.6	29.13	18.58	81.35	6.47	233.20	9.246E-03
01-Jul-89	0.27	0.91	0.08	79.53	96.77	17.24	1458.5	14557.8	29.16	29.86	9.72	0.77	40.09	1.594E-03
02-Jul-89	0.18	0.91	0.27	79.57	96.79	17.22	1459.9	14587.0	29.18	19.93	32.85	2.61	-48.55	
03-Jul-89	0.21	0.91	0.02	79.57	96.81	17.24	1461.3	14616.2	29.21	23.27	2.44	0.19	-13.69	
04-Jul-89	0.23	0.91	0.00	79.57	96.83	17.26	1462.8	14645.4	29.24	25.51			-49.88	
05-Jul-89	0.14	0.91	0.00	79.52	96.85	17.33	1464.2	14674.7	29.27	15.54			-54.78	
06-Jul-89	0.25	0.91	0.00	79.43	96.84	17.41	1463.5	14660.0	-14.64	27.74			-0.91	
07-Jul-89	0.20	0.91	0.00	79.38	96.83	17.45	1462.8	14645.4	-14.63	22.19			-13.11	
08-Jul-89	0.24	0.91	0.00	79.38	96.82	17.44	1462.0	14630.8	-14.62	26.61			-7.56	
09-Jul-89	0.30	0.91	0.00	79.37	96.80	17.43	1460.6	14601.6	-29.23	33.23			2.62	1.028E-04
10-Jul-89	0.30	0.91	0.00	79.37	96.79	17.42	1459.9	14587.0	-14.60	33.21			-18.63	
11-Jul-89	0.23	0.91	0.00	79.32	96.78	17.46	1459.2	14572.4	-14.60	25.45			-18.62	
12-Jul-89	0.36	0.91	0.00	79.29	96.77	17.48	1458.5	14557.8	-14.59	39.82			-10.86	
13-Jul-89	0.31	0.91	0.17	79.34	96.77	17.43	1458.5	14557.8	0.00	34.29	20.66	1.64	-39.82	
14-Jul-89	0.17	0.91	0.00	79.44	96.77	17.33	1458.5	14557.8	0.00	18.80			-11.98	
15-Jul-89	0.13	0.91	0.01	79.40	96.76	17.36	1457.8	14543.2	-14.58	14.37	1.21	0.10	-4.22	
16-Jul-89	0.17	0.91	0.00	79.41	96.76	17.35	1457.8	14543.2	0.00	18.79			-13.06	
17-Jul-89	0.17	0.91	0.00	79.41	96.75	17.34	1457.1	14528.6	-14.57	18.78			-4.22	
18-Jul-89	0.22	0.91	0.00	79.39	96.75	17.36	1457.1	14528.6	0.00	24.31			-18.78	
19-Jul-89	0.21	0.91	0.05	79.39	96.75	17.36	1457.1	14528.6	0.00	23.20			-24.31	
20-Jul-89	0.11	0.91	0.51	79.44	96.75	17.31	1457.1	14528.6	0.00	12.15	61.93	4.92	-16.65	
21-Jul-89	0.17	0.91	0.25	79.39	96.75	17.36	1457.1	14528.6	0.00	18.78	30.36	2.41	54.69	2.163E-03
22-Jul-89	0.34	0.91	1.86	79.33	96.76	17.43	1457.8	14543.2	14.57	37.59	225.96	17.96	-0.59	
23-Jul-89	0.25	0.91	0.72	79.34	96.76	17.42	1457.8	14543.2	0.00	27.64	87.47	6.95	206.32	8.124E-03
24-Jul-89	0.16	0.91	0.01	79.35	96.77	17.42	1458.5	14557.8	14.58	17.70	1.22	0.10	52.20	2.054E-03
25-Jul-89	0.21	0.91	0.00	79.33	96.77	17.44	1458.5	14557.8	0.00	23.23			-16.38	
26-Jul-89	0.29	0.91	0.00	79.33	96.77	17.44	1458.5	14557.8	0.00	32.07			-23.23	
27-Jul-89	0.18	0.91	0.03	79.37	96.75	17.39	1457.2	14530.7	-27.07	19.89	3.64	0.29	-5.00	
28-Jul-89	0.31	0.91	0.00	79.34	96.73	17.39	1455.8	14503.7	-27.05	34.22			11.09	4.380E-04
29-Jul-89	0.39	0.91	0.00	79.28	96.71	17.43	1454.5	14476.6	-27.02	43.02			-7.20	
30-Jul-89	0.31	0.91	0.00	79.28	96.70	17.42	1453.2	14449.6	-27.00	34.16			-16.02	

LAKE GENEVA DAILY WATER BUDGET:

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 11584					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
31-Jul-89	0.14	0.91	0.00	79.23	96.68	17.45	1451.9	14422.7	-26.98	15.41			-7.19			
01-Aug-89	0.31	0.91	0.00	79.21	96.66	17.45	1450.6	14395.7	-26.95	34.10			11.54	4.559E-04		
02-Aug-89	0.19	0.91	0.00	79.25	96.63	17.38	1448.5	14354.3	-41.42	20.87			7.32	2.905E-04		
03-Aug-89	0.27	0.91	0.75	79.29	96.62	17.33	1447.8	14339.8	-14.48	29.64	90.49	7.24	-6.39			
04-Aug-89	0.24	0.91	0.00	79.26	96.60	17.34	1446.0	14303.6	-36.17	26.32			104.26	4.158E-03		
05-Aug-89	0.30	0.91	0.00	79.23	96.57	17.34	1444.3	14267.5	-36.13	32.86			9.81	3.917E-04		
06-Aug-89	0.23	0.91	0.00	79.20	96.55	17.34	1442.5	14231.4	-36.08	25.16			3.23	1.290E-04		
07-Aug-89	0.30	0.91	0.00	79.12	96.52	17.40	1440.7	14195.4	-36.04	32.78			10.88	4.340E-04		
08-Aug-89	0.23	0.91	0.00	79.07	96.50	17.42	1438.9	14159.4	-36.00	25.10			3.22	1.284E-04		
09-Aug-89	0.20	0.91	0.23	79.06	96.47	17.41	1437.1	14123.4	-35.95	21.80	27.55	2.22	10.85	4.337E-04		
10-Aug-89	0.05	0.91	0.11	79.13	96.46	17.34	1436.7	14115.2	-8.21	5.45	13.17	1.06	16.18	6.496E-04		
11-Aug-89	0.12	0.91	0.50	79.17	96.46	17.28	1436.3	14107.0	-8.21	13.07	59.85	4.83	16.99	6.845E-04		
12-Aug-89	0.29	0.91	1.29	79.19	96.45	17.26	1435.9	14098.8	-8.21	31.58	154.36	12.45	59.81	2.413E-03		
13-Aug-89	0.10	0.91	0.13	79.22	96.45	17.23	1435.5	14090.6	-8.20	10.89	15.55	1.25	143.44	5.800E-03		
14-Aug-89	0.12	0.91	0.01	79.25	96.44	17.19	1435.1	14082.4	-8.20	13.06	1.20	0.10	14.12	5.723E-04		
15-Aug-89	0.24	0.91	0.88	79.24	96.44	17.20	1434.7	14074.2	-8.20	26.11	105.21	8.49	-3.57			
16-Aug-89	0.33	0.91	0.00	79.23	96.43	17.20	1434.3	14066.0	-8.20	35.89			95.79	3.883E-03		
17-Aug-89	0.18	0.91	0.01	79.17	96.41	17.24	1432.9	14037.3	-28.67	19.56	1.19	0.10	-7.22			
18-Aug-89	0.21	0.91	0.00	79.12	96.40	17.28	1432.2	14023.0	-14.33	22.81			-3.94			
19-Aug-89	0.25	0.91	0.00	79.10	96.39	17.29	1431.4	14008.7	-14.32	27.14			-8.49			
20-Aug-89	0.18	0.91	0.10	79.16	96.38	17.22	1430.7	13994.4	-14.31	19.53	11.92	0.97	-12.83			
21-Aug-89	0.20	0.91	0.31	79.18	96.37	17.19	1430.0	13980.1	-14.30	21.69	36.94	2.99	7.66	3.118E-04		
22-Aug-89	0.24	0.91	0.20	79.17	96.36	17.19	1429.3	13965.8	-14.30	26.01	23.82	1.93	32.54	1.325E-03		
23-Aug-89	0.34	0.91	1.40	79.17	96.35	17.18	1428.6	13951.5	-14.29	36.83	166.67	13.51	14.03	5.714E-04		
24-Aug-89	0.28	0.91	0.00	79.15	96.35	17.20	1428.6	13951.5	0.00	30.33			143.35	5.833E-03		
25-Aug-89	0.32	0.91	0.49	79.21	96.35	17.14	1428.6	13951.5	0.00	34.67	58.33	4.73	-30.33			
26-Aug-89	0.17	0.91	0.06	79.19	96.35	17.16	1428.6	13951.5	0.00	18.42	7.14	0.58	28.40	1.159E-03		
27-Aug-89	0.25	0.91	0.60	79.17	96.35	17.18	1428.6	13951.5	0.00	27.08	71.43	5.79	-10.69			
28-Aug-89	0.24	0.91	0.74	79.16	96.35	17.19	1428.6	13951.5	0.00	26.00	88.10	7.14	50.14	2.041E-03		
29-Aug-89	0.26	0.91	0.00	79.15	96.35	17.20	1428.6	13951.5	0.00	28.17			69.24	2.817E-03		
30-Aug-89	0.27	0.91	0.00	79.17	96.35	17.18	1428.6	13951.5	0.00	29.25			-28.17			
31-Aug-89	0.22	0.91	0.00	79.13	96.35	17.22	1428.6	13951.5	0.00	23.83			-29.25			
01-Sep-89	0.31	0.85	1.27	79.18	96.35	17.17	1428.6	13951.5	0.00	31.37	151.19	12.26	-23.83			
02-Sep-89	0.26	0.85	0.23	79.18	96.35	17.17	1428.6	13951.5	0.00	26.31	27.38	2.22	132.08	5.386E-03		
03-Sep-89	0.27	0.85	1.63	79.17	96.35	17.18	1428.6	13951.5	0.00	27.32	194.05	15.73	3.29	1.342E-04		
04-Sep-89	0.19	0.85	0.24	79.17	96.35	17.18	1428.6	13951.5	0.00	19.23	28.57	2.32	182.46	7.432E-03		
05-Sep-89	0.15	0.85	0.13	79.19	96.35	17.16	1428.6	13951.5	0.00	15.18	15.48	1.25	11.66	4.758E-04		
06-Sep-89	0.29	0.85	0.55	79.21	96.35	17.14	1428.6	13951.5	0.00	29.35	65.48	5.31	1.55	6.341E-05		
07-Sep-89	0.18	0.85	0.00	79.25	96.34	17.09	1428.0	13939.2	-12.24	18.21			53.68	2.199E-03		
08-Sep-89	0.14	0.85	0.33	79.28	96.33	17.05	1427.4	13927.0	-12.24	14.15	39.25	3.19	-5.97			
09-Sep-89	0.19	0.85	0.28	79.28	96.32	17.04	1426.8	13914.8	-12.23	19.20	33.29	2.70	40.52	1.666E-03		
10-Sep-89	0.23	0.85	0.00	79.27	96.32	17.05	1426.2	13902.5	-12.23	23.23			29.02	1.193E-03		
11-Sep-89	0.21	0.85	0.00	79.27	96.31	17.04	1425.5	13890.3	-12.22	21.20			-11.01			
12-Sep-89	0.21	0.85	0.00	79.25	96.30	17.05	1424.9	13878.1	-12.22	21.20			-8.99			
13-Sep-89	0.23	0.85	0.00	79.28	96.29	17.01	1424.3	13865.9	-12.21	23.20			-8.98			
14-Sep-89	0.17	0.85	0.00	79.29	96.30	17.01	1425.3	13886.3	20.35	17.16			-43.56			
15-Sep-89	0.18	0.85	0.01	79.31	96.32	17.01	1426.4	13906.6	20.37	18.19	1.19	0.10	-37.53			
16-Sep-89	0.22	0.85	0.42	79.30	96.33	17.03	1427.4	13927.0	20.38	22.24	49.96	4.05	-37.28			
17-Sep-89	0.13	0.85	0.55	79.40	96.35	16.94	1428.4	13947.4	20.40	13.15	65.47	5.31	11.37	4.698E-04		
18-Sep-89	0.11	0.85	0.33	79.49	96.36	16.87	1429.4	13967.8	20.41	11.14	39.31	3.19	37.21	1.543E-03		
19-Sep-89	0.21	0.85	0.00	79.42	96.38	16.95	1430.4	13988.2	20.43	21.28			10.93	4.507E-04		
20-Sep-89	0.23	0.85	0.00	79.39	96.39	17.00	1431.4	14008.7	20.44	23.32			-41.72			
21-Sep-89	0.22	0.85	0.00	79.43	96.40	16.97	1432.1	14021.0	12.27	22.32			-35.59			
22-Sep-89	0.23	0.85	0.00	79.40	96.41	17.00	1432.7	14033.2	12.28	23.34			-34.59			
23-Sep-89	0.06	0.85	0.75	79.42	96.42	16.99	1433.3	14045.5	12.28	6.09	89.58	7.24	-35.62			
24-Sep-89	0.06	0.85	0.32	79.40	96.42	17.02	1433.9	14057.8	12.29	6.09	38.24	3.09	78.44	3.214E-03		
25-Sep-89	0.10	0.85	0.42	79.47	96.43	16.97	1434.5	14070.1	12.29	10.16	50.21	4.05	22.94	9.425E-04		
26-Sep-89	0.01	0.85	0.26	79.47	96.44	16.97	1435.1	14082.4	12.30	1.02	31.09	2.51	31.80	1.305E-03		
27-Sep-89	0.08	0.85	0.02	79.41	96.45	17.04	1435.7	14094.7	12.30	8.14	2.39	0.19	20.28	8.292E-04		
28-Sep-89	0.15	0.85	0.00	79.41	96.44	17.03	1435.0	14080.3	-14.35	15.25			8.80	3.603E-04		
29-Sep-89	0.16	0.85	0.38	79.45	96.44	16.99	1435.0	14080.3	0.00	16.26	45.44	3.67	-15.25			
30-Sep-89	0.18	0.85	0.00	79.44	96.43	16.99	1434.3	14066.0	-14.35	18.29			47.19	1.937E-03		
01-Oct-89	0.24	0.76	0.57	79.47	96.43	16.96	1434.3	14066.0	0.00	21.80			-18.29			
02-Oct-89	0.21	0.76	1.30	79.48	96.42	16.94	1433.6	14051.7	-14.34	19.07	155.30	12.55	66.17	2.726E-03		
03-Oct-89	0.18	0.76	0.00	79.47	96.42	16.95	1433.6	14051.7	0.00	16.34			148.79	6.122E-03		
04-Oct-89	0.15	0.76	0.00	79.47	96.41	16.94	1432.9	14037.3	-14.33	13.61			-2.01			
05-Oct-89	0.20	0.76	0.00	79.42	96.39	16.97	1431.2	14003.9	-33.41	18.13			19.80	8.155E-04		
06-Oct-89	0.19	0.76	0.00	79.40	96.36	16.96	1429.5	13970.5	-33.38	17.20			15.25	6.288E-04		
07-Oct-89	0.21	0.76	0.00	79.42	96.34	16.92	1427.9	13937.2	-33.34	18.99			16.13	6.679E-04		
08-Oct-89	0.26	0.76	0.25	79.47	96.32	16.85	1426.2	13903.9	-33.30	23.49	29.71	2.41	14.31	5.953E-04		

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
09-Oct-89	0.18	0.76	0.00	79.41	96.29	16.88	1424.6	13870.6	-33.26	16.24			41.90	1.742E-03
10-Oct-89	0.11	0.76	0.00	79.45	96.27	16.82	1422.9	13837.4	-33.22	9.91			16.98	7.094E-04
11-Oct-89	0.07	0.76	0.00	79.41	96.27	16.86	1422.9	13837.4	0.00	6.31			-9.91	
12-Oct-89	0.13	0.76	0.05	79.36	96.26	16.90	1422.2	13823.2	-14.23	11.71	5.93	0.48	7.92	3.294E-04
13-Oct-89	0.13	0.76	0.00	79.36	96.25	16.89	1421.5	13809.0	-14.22	11.70			8.92	3.714E-04
14-Oct-89	0.16	0.76	0.00	79.35	96.24	16.89	1420.8	13794.8	-14.21	14.40			2.51	1.045E-04
15-Oct-89	0.16	0.76	0.00	79.30	96.23	16.93	1420.1	13780.6	-14.20	14.39			-0.19	
16-Oct-89	0.08	0.76	0.00	79.28	96.22	16.94	1419.3	13766.4	-14.20	7.19			-0.19	
17-Oct-89	0.19	0.76	0.00	79.28	96.21	16.93	1418.6	13752.2	-14.19	17.07			7.00	2.913E-04
18-Oct-89	0.15	0.76	0.27	79.32	96.19	16.87	1417.0	13720.3	-31.90	13.46	31.88	2.61	14.83	6.205E-04
19-Oct-89	0.16	0.76	0.66	79.29	96.17	16.87	1415.4	13688.4	-31.87	14.34	77.85	6.37	52.89	2.215E-03
20-Oct-89	0.14	0.76	0.02	79.20	96.14	16.94	1413.8	13656.6	-31.83	12.54	2.36	0.19	101.71	4.246E-03
21-Oct-89	0.15	0.76	0.00	79.13	96.12	16.99	1412.2	13624.8	-31.79	13.42			21.81	9.088E-04
22-Oct-89	0.13	0.76	0.00	79.13	96.10	16.97	1410.6	13593.0	-31.76	11.61			18.34	7.662E-04
23-Oct-89	0.14	0.76	0.00	79.16	96.08	16.92	1409.0	13561.3	-31.72	12.49			20.11	8.435E-04
24-Oct-89	0.15	0.76	0.00	79.16	96.05	16.90	1407.4	13529.6	-31.68	13.37			19.19	8.071E-04
25-Oct-89	0.17	0.76	0.00	79.17	96.03	16.86	1405.8	13498.0	-31.65	15.14			18.28	7.714E-04
26-Oct-89	0.20	0.76	0.00	79.16	96.02	16.86	1405.0	13481.9	-16.06	17.80			0.93	3.908E-05
27-Oct-89	0.11	0.76	0.00	79.17	96.01	16.83	1404.2	13465.9	-16.05	9.78			-1.74	
28-Oct-89	0.14	0.76	0.00	79.16	96.00	16.84	1403.4	13449.8	-16.04	12.44			6.26	2.649E-04
29-Oct-89	0.22	0.76	0.00	79.20	95.98	16.78	1402.6	13433.8	-16.03	19.54			3.59	1.525E-04
30-Oct-89	0.20	0.76	0.00	79.21	95.97	16.76	1401.7	13417.8	-16.02	17.76			-3.52	
31-Oct-89	0.01	0.76	0.00	79.12	95.96	16.84	1400.9	13401.8	-16.02	0.89			-1.74	
01-Nov-89	0.08	0.71	0.00	79.07	95.95	16.88	1400.1	13385.7	-16.01	6.63			15.12	6.395E-04
02-Nov-89	0.12	0.71	0.00	79.07	95.94	16.87	1399.3	13369.7	-16.00	9.94			9.37	3.968E-04
03-Nov-89	0.16	0.71	0.00	79.03	95.93	16.90	1398.5	13353.8	-15.99	13.24			6.05	2.581E-04
04-Nov-89	0.09	0.71	0.00	78.95	95.92	16.97	1397.7	13337.8	-15.98	7.44			2.74	1.155E-04
05-Nov-89	0.12	0.71	0.00	78.91	95.90	16.99	1396.9	13321.8	-15.97	9.92			8.53	3.592E-04
06-Nov-89	0.15	0.71	0.00	78.95	95.89	16.95	1396.1	13305.9	-15.96	12.39			6.04	2.554E-04
07-Nov-89	0.12	0.71	0.00	78.96	95.88	16.92	1395.2	13289.9	-15.95	9.91			3.56	1.508E-04
08-Nov-89	0.13	0.71	0.00	79.00	95.87	16.87	1394.4	13274.0	-15.94	10.73			6.03	2.566E-04
09-Nov-89	0.13	0.71	1.02	79.04	95.87	16.83	1394.2	13270.0	-3.98	10.72	118.51	9.85	-6.74	
10-Nov-89	0.07	0.71	0.03	78.98	95.86	16.88	1394.0	13266.0	-3.98	5.77	3.49	0.29	121.81	5.168E-03
11-Nov-89	0.12	0.71	0.00	78.92	95.86	16.94	1393.8	13262.0	-3.98	9.90			1.98	8.400E-05
12-Nov-89	0.13	0.71	0.00	78.90	95.86	16.96	1393.6	13258.0	-3.98	10.72			-5.91	
13-Nov-89	0.11	0.71	0.00	78.91	95.86	16.95	1393.4	13254.0	-3.98	9.07			-6.74	
14-Nov-89	0.14	0.71	0.00	78.96	95.85	16.90	1393.2	13250.1	-3.98	11.54			-5.09	
15-Nov-89	0.05	0.71	0.00	79.02	95.85	16.83	1393.0	13246.1	-3.98	4.12			-7.56	
16-Nov-89	0.08	0.71	0.09	79.05	95.83	16.78	1391.6	13218.2	-27.85	6.59	10.44	0.87	23.72	1.016E-03
17-Nov-89	0.13	0.71	0.00	78.97	95.81	16.84	1390.2	13190.4	-27.82	10.69			32.54	1.390E-03
18-Nov-89	0.10	0.71	0.00	78.86	95.79	16.93	1388.7	13162.6	-27.79	8.22			17.10	7.269E-04
19-Nov-89	0.08	0.71	0.00	78.82	95.77	16.95	1387.3	13134.9	-27.76	6.57			19.54	8.311E-04
20-Nov-89	0.08	0.71	0.00	78.90	95.75	16.85	1385.9	13107.1	-27.73	6.56			21.17	9.064E-04
21-Nov-89	0.14	0.71	0.00	78.97	95.75	16.78	1385.9	13107.1	0.00	11.48			-6.56	
22-Nov-89	0.09	0.71	0.00	78.96	95.75	16.79	1385.9	13107.1	0.00	7.38			-11.48	
23-Nov-89	0.07	0.71	0.62	78.95	95.75	16.80	1385.9	13107.1	0.00	5.74	71.60	5.99	-7.38	
24-Nov-89	0.09	0.71	0.00	78.82	95.75	16.93	1385.9	13107.1	0.00	7.38			71.85	3.062E-03
25-Nov-89	0.11	0.71	0.00	78.86	95.75	16.89	1385.9	13107.1	0.00	9.02			-7.38	
26-Nov-89	0.07	0.71	0.05	78.93	95.75	16.82	1385.9	13107.1	0.00	5.74	5.77	0.48	-9.02	
27-Nov-89	0.10	0.71	0.00	78.93	95.75	16.82	1385.9	13107.1	0.00	8.20			0.52	2.219E-05
28-Nov-89	0.04	0.71	0.00	78.92	95.75	16.83	1385.9	13107.1	0.00	3.28			-8.20	
29-Nov-89	0.07	0.71	0.00	78.90	95.75	16.85	1385.9	13107.1	0.00	5.74			-3.28	
30-Nov-89	0.21	0.71	0.00	78.78	95.73	16.95	1384.5	13079.4	-27.70	17.20			21.96	9.361E-04
01-Dec-89	0.10	0.83	0.00	78.81	95.71	16.90	1383.0	13051.8	-27.67	9.57			10.47	4.481E-04
02-Dec-89	0.11	0.83	0.00	78.82	95.69	16.87	1381.6	13024.1	-27.65	10.51			18.08	7.757E-04
03-Dec-89	0.17	0.83	0.00	78.82	95.67	16.85	1380.2	12996.5	-27.62	16.23			17.11	7.355E-04
04-Dec-89	0.13	0.83	0.00	78.77	95.65	16.88	1378.8	12968.9	-27.59	12.40			11.36	4.882E-04
05-Dec-89	0.09	0.83	0.00	78.81	95.63	16.82	1377.3	12941.4	-27.56	8.57			15.16	6.545E-04
06-Dec-89	0.11	0.83	0.00	78.83	95.61	16.78	1375.9	12913.8	-27.53	10.47			18.96	8.210E-04
07-Dec-89	0.08	0.83	0.00	78.77	95.59	16.81	1374.1	12879.4	-34.38	7.60			23.91	1.035E-03
08-Dec-89	0.11	0.83	0.00	78.88	95.56	16.68	1372.4	12845.1	-34.33	10.44			26.73	1.168E-03
09-Dec-89	0.13	0.83	1.67	78.90	95.56	16.66	1372.2	12841.2	-3.92	12.34	190.96	16.12	-6.52	
10-Dec-89	0.15	0.83	0.02	78.76	95.55	16.79	1372.0	12837.3	-3.92	14.23	2.29	0.19	198.66	8.624E-03
11-Dec-89	0.04	0.83	0.00	78.77	95.55	16.78	1371.8	12833.4	-3.92	3.80			-7.83	
12-Dec-89	0.08	0.83	0.00	78.86	95.55	16.68	1371.5	12829.4	-3.92	7.59			0.12	5.411E-06
13-Dec-89	0.15	0.83	0.27	78.80	95.59	16.79	1374.5	12886.3	56.88	14.26	30.93	2.61	-64.47	
14-Dec-89	0.09	0.83	0.00	78.63	95.59	16.96	1374.5	12886.3	0.00	8.56			19.27	8.266E-04
15-Dec-89	0.09	0.83	0.00	78.71	95.59	16.88	1374.5	12886.3	0.00	8.56			-8.56	
16-Dec-89	0.06	0.83	0.25	78.72	95.59	16.87	1374.1	12879.4	-6.87	5.70	28.83	2.41	-1.68	
17-Dec-89	0.09	0.83	0.01	78.65	95.58	16.93	1373.8	12872.6	-6.87	8.55	1.14	0.10	32.21	1.384E-03

LAKE GENEVA DAILY WATER BUDGET:

														Runoff Coeff. = 0.01		Drain. Area (ac) = 11584	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)			
18-Dec-89	0.05	0.83	0.05	78.66	95.58	16.91	1373.4	12865.7	-6.87	4.75	5.72	0.48	-0.44				
19-Dec-89	0.01	0.83	0.43	78.71	95.57	16.86	1373.1	12858.8	-6.87	0.95	49.20	4.15	8.32	3.595E-04			
20-Dec-89	0.01	0.83	0.64	78.69	95.57	16.88	1373.2	12861.1	2.29	0.95	73.24	6.18	50.11	2.162E-03			
21-Dec-89	0.04	0.83	0.00	78.66	95.57	16.91	1373.3	12863.4	2.29	3.80			76.18	3.280E-03			
22-Dec-89	0.07	0.83	0.00	78.59	95.58	16.98	1373.4	12865.7	2.29	6.65			-6.09				
23-Dec-89	0.05	0.83	0.36	78.48	95.58	17.10	1373.5	12868.0	2.29	4.75	41.21	3.48	-8.94				
24-Dec-89	0.05	0.83	0.27	78.38	95.58	17.20	1373.7	12870.3	2.29	4.75	30.91	2.61	37.64	1.593E-03			
25-Dec-89	0.05	0.83	0.05	78.31	95.58	17.27	1373.8	12872.6	2.29	4.75	5.72	0.48	26.47	1.116E-03			
26-Dec-89	0.08	0.83	0.00	78.31	95.58	17.27	1373.9	12874.9	2.29	7.60			-0.83				
27-Dec-89	0.08	0.83	0.00	78.38	95.58	17.20	1374.0	12877.2	2.29	7.60			-9.89				
28-Dec-89	0.10	0.83	0.00	78.45	95.58	17.13	1374.1	12879.4	2.29	9.50			-9.89				
29-Dec-89	0.07	0.83	0.00	78.49	95.59	17.10	1374.3	12881.7	2.29	6.65			-11.79				
30-Dec-89	0.07	0.83	0.00	78.52	95.59	17.07	1374.4	12884.0	2.29	6.65			-8.94				
31-Dec-89	0.11	0.83	0.00	78.58	95.59	17.01	1374.5	12886.3	2.29	10.46			-8.95				
01-Jan-90	0.15	0.77	0.25	78.54	95.59	17.05	1374.5	12886.3	0.00	13.23	28.64	2.41	-10.46				
02-Jan-90	0.16	0.77	0.00	78.44	95.59	17.15	1374.5	12886.3	0.00	14.11			17.82	7.557E-04			
03-Jan-90	0.12	0.77	0.00	78.50	95.59	17.09	1374.5	12886.3	0.00	10.58			-14.11				
04-Jan-90	0.10	0.77	0.00	78.53	95.59	17.06	1374.5	12886.3	0.00	8.82			-10.58				
05-Jan-90	0.05	0.77	0.00	78.56	95.59	17.03	1374.5	12886.3	0.00	4.41			-8.82				
06-Jan-90	0.05	0.77	0.00	78.60	95.59	16.99	1374.5	12886.3	0.00	4.41			-4.41				
07-Jan-90	0.03	0.77	0.57	78.64	95.59	16.95	1374.5	12886.3	0.00	2.65	65.29	5.50	-4.41				
08-Jan-90	0.07	0.77	0.46	78.63	95.59	16.96	1374.5	12886.3	0.00	6.17	52.69	4.44	68.15	2.923E-03			
09-Jan-90	0.15	0.77	0.00	78.50	95.59	17.09	1374.5	12886.3	0.00	13.23			50.96	2.169E-03			
10-Jan-90	0.06	0.77	0.00	78.53	95.59	17.06	1374.5	12886.3	0.00	5.29			-13.23				
11-Jan-90	0.09	0.77	0.00	78.54	95.58	17.04	1373.5	12866.7	-19.63	7.93			14.34	6.126E-04			
12-Jan-90	0.10	0.77	0.00	78.58	95.56	16.98	1372.5	12847.1	-19.61	8.81			11.68	5.013E-04			
13-Jan-90	0.23	0.77	0.00	78.41	95.55	17.14	1371.4	12827.5	-19.60	20.24			10.79	4.592E-04			
14-Jan-90	0.13	0.77	0.00	78.35	95.53	17.18	1370.4	12807.9	-19.58	11.43			-0.66				
15-Jan-90	0.10	0.77	0.00	78.38	95.52	17.14	1369.4	12788.3	-19.57	8.79			8.14	3.468E-04			
16-Jan-90	0.13	0.77	0.00	78.38	95.50	17.12	1368.4	12768.8	-19.56	11.41			10.77	4.596E-04			
17-Jan-90	0.13	0.77	0.00	78.42	95.49	17.07	1367.4	12749.2	-19.54	11.41			8.13	3.481E-04			
18-Jan-90	0.11	0.77	0.00	78.44	95.48	17.04	1367.0	12741.4	-7.81	9.65			-3.59				
19-Jan-90	0.10	0.77	0.00	78.47	95.48	17.01	1366.6	12733.6	-7.81	8.77			-1.84				
20-Jan-90	0.13	0.77	0.00	78.46	95.47	17.01	1366.2	12725.8	-7.81	11.40			-0.96				
21-Jan-90	0.15	0.77	0.00	78.48	95.47	16.99	1365.8	12718.0	-7.81	13.15			-3.59				
22-Jan-90	0.08	0.77	0.00	78.47	95.46	16.99	1365.3	12710.2	-7.80	7.01			-5.34				
23-Jan-90	0.15	0.77	0.00	78.44	95.46	17.02	1364.9	12702.4	-7.80	13.14			0.79	3.409E-05			
24-Jan-90	0.13	0.77	0.00	78.45	95.45	17.00	1364.5	12694.6	-7.80	11.38			-5.34				
25-Jan-90	0.12	0.77	0.00	78.49	95.45	16.96	1364.5	12694.6	0.00	10.51			-11.38				
26-Jan-90	0.20	0.77	0.21	78.39	95.44	17.05	1363.6	12676.4	-18.19	17.50	23.86	2.03	7.68	3.304E-04			
27-Jan-90	0.15	0.77	0.00	78.24	95.42	17.18	1362.7	12659.3	-17.09	13.12			25.48	1.088E-03			
28-Jan-90	0.13	0.77	0.00	78.39	95.41	17.02	1361.8	12643.1	-16.18	11.32			3.07	1.322E-04			
29-Jan-90	0.12	0.77	0.00	78.54	95.40	16.86	1361.0	12627.7	-15.42	10.48			4.06	1.770E-04			
30-Jan-90	0.11	0.77	0.00	78.51	95.39	16.88	1360.3	12612.9	-14.79	9.60			4.31	1.876E-04			
31-Jan-90	0.09	0.77	0.39	78.48	95.37	16.89	1358.8	12585.6	-27.26	7.85	44.16	3.76	17.66	7.696E-04			
01-Feb-90	0.12	0.69	0.00	78.41	95.36	16.95	1358.2	12574.0	-11.64	9.37			51.72	2.246E-03			
02-Feb-90	0.09	0.69	0.00	78.40	95.35	16.95	1357.6	12562.4	-11.64	7.03			2.27	9.852E-05			
03-Feb-90	0.13	0.69	0.00	78.40	95.34	16.94	1357.0	12550.7	-11.63	10.14			4.61	2.004E-04			
04-Feb-90	0.16	0.69	0.00	78.43	95.34	16.91	1356.4	12539.1	-11.63	12.48			1.49	6.476E-05			
05-Feb-90	0.20	0.69	0.00	78.38	95.33	16.95	1355.8	12527.5	-11.62	15.59			-0.86				
06-Feb-90	0.22	0.69	0.00	78.28	95.32	17.04	1355.2	12515.9	-11.62	17.14			-3.97				
07-Feb-90	0.10	0.69	0.00	78.31	95.31	17.00	1354.6	12504.2	-11.61	7.79			-5.53				
08-Feb-90	0.14	0.69	0.00	78.30	95.31	17.01	1354.4	12500.4	-3.87	10.90			-3.92				
09-Feb-90	0.12	0.69	0.00	78.31	95.30	17.00	1354.2	12496.5	-3.87	9.34			-7.03				
10-Feb-90	0.16	0.69	0.00	78.37	95.30	16.93	1354.0	12492.6	-3.87	12.46			-5.47				
11-Feb-90	0.07	0.69	0.89	78.40	95.30	16.90	1353.8	12488.8	-3.87	5.45	100.40	8.59	-8.59				
12-Feb-90	0.15	0.69	0.00	78.30	95.30	17.00	1353.5	12484.9	-3.87	11.67			107.41	4.669E-03			
13-Feb-90	0.18	0.69	0.00	78.23	95.29	17.07	1353.3	12481.0	-3.87	14.01			-7.81				
14-Feb-90	0.15	0.69	0.00	78.23	95.29	17.06	1353.1	12477.2	-3.87	11.67			-10.14				
15-Feb-90	0.15	0.69	0.00	78.24	95.33	17.08	1355.8	12527.5	50.31	11.69			-61.98				
16-Feb-90	0.17	0.69	0.00	78.28	95.36	17.08	1358.4	12577.9	50.41	13.28			-62.10				
17-Feb-90	0.16	0.69	0.47	78.29	95.40	17.11	1361.1	12628.4	50.51	12.52	53.31	4.54	-63.78				
18-Feb-90	0.17	0.69	0.13	78.29	95.44	17.15	1363.7	12679.0	50.60	13.33	14.77	1.25	-5.28				
19-Feb-90	0.00	0.69	0.01	78.36	95.48	17.11	1366.4	12729.7	50.70	0.00	1.14	0.10	-48.00				
20-Feb-90	0.16	0.69	0.15	78.37	95.51	17.14	1369.0	12780.5	50.80	12.59	17.11	1.45	-49.56				
21-Feb-90	0.05	0.69	0.00	78.36	95.55	17.19	1371.6	12831.4	50.90	3.94			-44.93				
22-Feb-90	0.02	0.69	0.00	78.43	95.56	17.14	1372.5	12847.1	15.68	1.58			-19.62				
23-Feb-90	0.18	0.69	1.07	78.54	95.57	17.04	1373.3	12862.8	15.69	14.21	122.45	10.33	-17.27				
24-Feb-90	0.14	0.69	0.14	78.47	95.58	17.11	1374.1	12878.5	15.70	11.06	16.03	1.35	102.87	4.375E-03			
25-Feb-90	0.18	0.69	0.00	78.40	95.60	17.20	1374.9	12894.2	15.71	14.23			-9.39				

LAKE GENEVA DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 11584	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
26-Feb-90	0.21	0.69	0.00	78.35	95.61	17.25	1375.7	12909.9	15.72	16.61				-29.95	
27-Feb-90	0.15	0.69	0.00	78.36	95.62	17.26	1376.5	12925.6	15.73	11.87				-32.34	
28-Feb-90	0.16	0.69	0.00	78.44	95.63	17.19	1377.3	12941.4	15.74	12.67				-27.61	
01-Mar-90	0.12	0.73	0.00	78.48	95.63	17.15	1377.1	12937.4	-3.93	10.05				-8.74	
02-Mar-90	0.18	0.73	0.00	78.58	95.62	17.04	1376.9	12933.5	-3.93	15.08				-6.12	
03-Mar-90	0.13	0.73	0.43	78.69	95.62	16.93	1376.7	12929.5	-3.93	10.89	49.33	4.15		-11.14	
04-Mar-90	0.18	0.73	0.00	78.64	95.62	16.98	1376.5	12925.6	-3.93	15.07				46.53	
05-Mar-90	0.15	0.73	0.00	78.56	95.62	17.05	1376.3	12921.7	-3.93	12.56				1.990E-03	
06-Mar-90	0.18	0.73	0.00	78.53	95.61	17.09	1376.1	12917.7	-3.93	15.07				-11.14	
07-Mar-90	0.19	0.73	0.00	78.51	95.61	17.10	1375.9	12913.8	-3.93	15.90				-8.63	
08-Mar-90	0.16	0.73	0.04	78.47	95.60	17.12	1374.9	12894.2	-19.65	13.38	4.58	0.39		-11.14	
09-Mar-90	0.18	0.73	0.00	78.48	95.58	17.10	1373.9	12874.5	-19.63	15.04				3.75	
10-Mar-90	0.17	0.73	0.00	78.46	95.57	17.10	1372.9	12854.9	-19.62	14.20				1.591E-04	
11-Mar-90	0.13	0.73	0.00	78.41	95.55	17.15	1371.9	12835.3	-19.61	10.85				11.22	
12-Mar-90	0.22	0.73	0.00	78.41	95.54	17.13	1370.8	12815.7	-19.59	18.35				4.776E-04	
13-Mar-90	0.21	0.73	0.00	78.41	95.52	17.12	1369.8	12796.1	-19.58	17.50				4.58	
14-Mar-90	0.23	0.73	0.00	78.41	95.51	17.10	1368.8	12776.6	-19.56	19.15				1.949E-04	
15-Mar-90	0.23	0.73	0.00	78.41	95.50	17.10	1368.4	12768.8	-7.82	19.15				5.41	
16-Mar-90	0.19	0.73	0.00	78.41	95.50	17.09	1368.0	12760.9	-7.82	15.81				2.299E-04	
17-Mar-90	0.19	0.73	0.00	78.41	95.49	17.09	1367.6	12753.1	-7.82	15.81				8.74	
18-Mar-90	0.14	0.73	0.58	78.40	95.49	17.09	1367.2	12745.3	-7.81	11.64	66.08	5.60		3.722E-04	
19-Mar-90	0.19	0.73	0.00	78.40	95.48	17.08	1366.8	12737.5	-7.81	15.80				1.23	
20-Mar-90	0.20	0.73	0.00	78.38	95.48	17.10	1366.4	12729.7	-7.81	16.62				5.245E-05	
21-Mar-90	0.22	0.73	0.00	78.26	95.47	17.21	1366.0	12721.9	-7.81	18.28				2.06	
22-Mar-90	0.18	0.73	0.00	78.18	95.45	17.27	1364.5	12694.6	-27.30	14.94				8.809E-05	
23-Mar-90	0.18	0.73	0.00	78.25	95.43	17.18	1363.1	12667.3	-27.28	14.93				-11.33	
24-Mar-90	0.19	0.73	0.00	78.25	95.41	17.16	1361.7	12640.1	-27.25	15.74				-11.33	
25-Mar-90	0.20	0.73	0.00	78.23	95.39	17.16	1360.3	12612.8	-27.22	16.55				-8.00	
26-Mar-90	0.19	0.73	0.00	78.21	95.37	17.16	1358.8	12585.6	-27.19	15.71				3.75	
27-Mar-90	0.20	0.73	0.00	78.22	95.35	17.13	1357.4	12558.5	-27.16	16.52				1.591E-04	
28-Mar-90	0.18	0.73	0.00	78.19	95.33	17.14	1356.0	12531.4	-27.13	14.85				11.22	
29-Mar-90	0.22	0.73	1.09	78.19	95.31	17.12	1354.6	12504.2	-27.11	18.13	123.04	10.52		4.563E-04	
30-Mar-90	0.18	0.73	0.00	78.19	95.32	17.13	1355.5	12522.3	18.07	14.84				11.46	
31-Mar-90	0.24	0.73	1.48	78.26	95.34	17.07	1356.5	12540.4	18.08	19.80	167.30	14.29		4.926E-04	
01-Apr-90	0.14	0.84	0.00	78.26	95.35	17.09	1357.4	12558.5	18.09	13.30				10.62	
02-Apr-90	0.17	0.84	0.00	78.23	95.36	17.13	1358.4	12576.6	18.11	16.16				4.569E-04	
03-Apr-90	0.21	0.84	2.11	78.33	95.38	17.05	1359.3	12594.7	18.12	19.98	239.01	20.37		12.26	
04-Apr-90	0.29	0.84	0.00	78.32	95.39	17.07	1360.3	12612.8	18.13	27.61				97.37	
05-Apr-90	0.24	0.84	0.00	78.25	95.37	17.11	1358.6	12581.8	-31.07	22.83				4.192E-03	
06-Apr-90	0.21	0.84	0.00	78.25	95.34	17.09	1357.0	12550.7	-31.04	19.95				9.02	
07-Apr-90	0.25	0.84	0.00	78.20	95.32	17.12	1355.4	12519.7	-31.00	23.72				3.829E-04	
08-Apr-90	0.21	0.84	0.00	78.06	95.30	17.24	1353.8	12488.8	-30.96	19.90				12.33	
09-Apr-90	0.27	0.84	0.00	78.02	95.28	17.25	1352.1	12457.8	-30.92	25.56				5.268E-04	
10-Apr-90	0.21	0.84	0.00	78.04	95.25	17.21	1350.5	12427.0	-30.89	19.85				12.32	
11-Apr-90	0.19	0.84	0.01	78.15	95.23	17.08	1348.9	12396.1	-30.85	17.94	1.12	0.10		5.274E-04	
12-Apr-90	0.21	0.84	0.00	78.11	95.20	17.10	1347.0	12361.4	-34.66	19.80				4.920E-04	
13-Apr-90	0.26	0.84	0.00	78.03	95.18	17.15	1345.2	12326.8	-34.61	24.48				10.64	
14-Apr-90	0.25	0.84	0.00	78.01	95.15	17.15	1343.4	12292.3	-34.57	23.51				4.563E-04	
15-Apr-90	0.21	0.84	0.00	78.01	95.13	17.12	1341.6	12257.7	-34.52	19.72				11.48	
16-Apr-90	0.16	0.84	0.00	78.01	95.10	17.10	1339.7	12223.3	-34.47	15.00				4.920E-04	
17-Apr-90	0.23	0.84	0.00	77.98	95.08	17.10	1337.9	12188.8	-34.43	21.54				11.05	
18-Apr-90	0.23	0.84	0.00	77.90	95.05	17.15	1336.1	12154.5	-34.38	21.51				4.761E-04	
19-Apr-90	0.27	0.84	0.00	77.86	95.04	17.18	1335.4	12143.0	-11.45	25.24				7.24	
20-Apr-90	0.18	0.84	0.00	77.83	95.03	17.20	1334.8	12131.6	-11.44	16.82				3.104E-04	
21-Apr-90	0.27	0.84	0.00	77.87	95.02	17.16	1334.2	12120.1	-11.44	25.22				11.05	
22-Apr-90	0.16	0.84	0.00	77.93	95.02	17.08	1333.6	12108.7	-11.43	14.94				4.761E-04	
23-Apr-90	0.21	0.84	0.50	77.94	95.01	17.06	1333.0	12097.3	-11.43	19.60	55.54	4.83		11.05	
24-Apr-90	0.12	0.84	0.12	77.95	95.00	17.05	1332.4	12085.8	-11.42	11.19	13.32	1.18		7.24	
25-Apr-90	0.27	0.84	0.00	77.92	94.99	17.07	1331.8	12074.4	-11.42	25.17				4.726E-04	
26-Apr-90	0.27	0.84	0.00	77.90	94.99	17.09	1331.8	12074.4	0.00	25.17				5.33	
27-Apr-90	0.28	0.84	0.00	77.87	94.99	17.12	1331.8	12074.4	0.00	26.10				2.294E-04	
28-Apr-90	0.31	0.84	0.00	77.91	94.99	17.08	1331.8	12074.4	0.00	28.90				5.33	
29-Apr-90	0.17	0.84	0.93	77.94	94.99	17.05	1331.8	12074.4	0.00	15.85	103.21	8.98		2.294E-04	
30-Apr-90	0.23	0.84	0.00	77.88	94.99	17.11	1331.8	12074.4	0.00	21.44				11.00	
01-May-90	0.28	0.82	0.00	77.88	94.99	17.11	1331.8	12074.4	0.00	25.48				17.94	
02-May-90	0.29	0.82	0.00	77.80	94.99	17.19	1331.8	12074.4	0.00	26.39				7.790E-04	
03-May-90	0.33	0.82	0.00	77.76	94.96	17.20	1329.6	12032.6	-41.82	29.98				14.81	
04-May-90	0.27	0.82	0.00	77.71	94.93	17.21	1327.3	11990.9	-41.75	24.49				6.423E-04	
05-May-90	0.19	0.82	0.00	77.81	94.90	17.08	1325.1	11949.2	-41.68	17.20				10.08	
06-May-90	0.30	0.82	0.00	77.78	94.86	17.09	1322.8	11907.6	-41.61	27.12				4.794E-04	

LAKE GENEVA DAILY WATER BUDGET:

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 11584					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
07-May-90	0.17	0.82	0.00	77.68	94.83	17.16	1320.6	11866.0	-41.54	15.34			14.42	6.366E-04		
08-May-90	0.32	0.82	0.00	77.62	94.80	17.18	1318.4	11824.6	-41.47	28.83			26.13	1.154E-03		
09-May-90	0.25	0.82	0.01	77.64	94.77	17.13	1316.1	11783.2	-41.40	22.48	1.10	0.10	12.57	5.576E-04		
10-May-90	0.10	0.82	0.53	77.76	94.77	17.01	1316.1	11783.2	0.00	8.99	58.13	5.12	-21.29			
11-May-90	0.31	0.82	0.00	77.65	94.77	17.12	1316.1	11783.2	0.00	27.88			54.25	2.408E-03		
12-May-90	0.32	0.82	0.00	77.60	94.77	17.17	1316.1	11783.2	0.00	28.78			-27.88			
13-May-90	0.27	0.82	0.00	77.57	94.77	17.20	1316.1	11783.2	0.00	24.28			-28.78			
14-May-90	0.34	0.82	0.00	77.54	94.77	17.23	1316.1	11783.2	0.00	30.58			-24.28			
15-May-90	0.32	0.82	1.34	77.52	94.77	17.25	1316.1	11783.2	0.00	28.78	146.97	12.94	-30.58			
16-May-90	0.20	0.82	0.00	77.58	94.77	17.19	1316.1	11783.2	0.00	17.99			131.12	5.795E-03		
17-May-90	0.32	0.82	0.00	77.58	94.74	17.17	1314.3	11749.3	-33.82	28.74			15.83	7.017E-04		
18-May-90	0.31	0.82	0.00	77.56	94.72	17.16	1312.5	11715.6	-33.77	27.80			5.03	2.235E-04		
19-May-90	0.31	0.82	0.00	77.53	94.69	17.16	1310.6	11681.8	-33.73	27.76			5.92	2.633E-04		
20-May-90	0.23	0.82	0.00	77.55	94.67	17.12	1308.8	11648.2	-33.68	20.57			5.91	2.640E-04		
21-May-90	0.33	0.82	0.00	77.52	94.64	17.12	1307.0	11614.5	-33.63	29.47			13.06	5.838E-04		
22-May-90	0.23	0.82	0.03	77.51	94.62	17.10	1305.1	11580.9	-33.58	20.51	3.26	0.29	4.11	1.842E-04		
23-May-90	0.16	0.82	0.00	77.51	94.59	17.08	1303.3	11547.4	-33.54	14.25			16.58	7.448E-04		
24-May-90	0.26	0.82	0.00	77.44	94.55	17.11	1300.5	11495.3	-52.08	23.10			37.83	1.700E-03		
25-May-90	0.30	0.82	0.00	77.35	94.51	17.16	1297.6	11443.4	-51.96	26.60			28.86	1.296E-03		
26-May-90	0.17	0.82	0.00	77.32	94.49	17.17	1296.2	11417.4	-25.94	15.06			-0.66			
27-May-90	0.29	0.82	0.00	77.35	94.47	17.12	1294.8	11391.5	-25.91	25.66			10.85	4.895E-04		
28-May-90	0.33	0.82	1.27	77.35	94.45	17.10	1293.4	11365.6	-25.88	29.17	136.88	12.26	0.22	1.009E-05		
29-May-90	0.27	0.82	0.00	77.27	94.43	17.16	1291.9	11339.8	-25.85	23.84			145.83	6.577E-03		
30-May-90	0.29	0.82	0.00	77.20	94.41	17.21	1290.5	11314.0	-25.82	25.57			1.99	8.954E-05		
31-May-90	0.33	0.82	0.00	77.14	94.41	17.27	1290.3	11310.3	-3.69	29.10			-21.89			
01-Jun-90	0.28	0.85	0.00	77.07	94.40	17.33	1290.1	11306.6	-3.69	25.59			-25.41			
02-Jun-90	0.32	0.85	0.00	77.02	94.40	17.38	1289.9	11302.9	-3.69	29.24			-21.90			
03-Jun-90	0.27	0.85	0.15	77.13	94.40	17.27	1289.7	11299.2	-3.69	24.67	16.12	1.45	-25.55			
04-Jun-90	0.28	0.85	0.00	77.17	94.40	17.23	1289.5	11295.5	-3.68	25.57			-3.41			
05-Jun-90	0.04	0.85	1.15	77.23	94.39	17.16	1289.3	11291.9	-3.68	3.65	123.56	11.10	-21.89			
06-Jun-90	0.20	0.85	0.00	77.19	94.39	17.20	1289.1	11288.2	-3.68	18.26			134.69	6.076E-03		
07-Jun-90	0.25	0.85	0.26	77.25	94.39	17.14	1289.3	11291.9	3.68	22.83	27.93	2.51	-21.95			
08-Jun-90	0.19	0.85	0.14	77.31	94.40	17.08	1289.5	11295.5	3.68	17.35	15.04	1.35	3.93	1.784E-04		
09-Jun-90	0.17	0.85	0.03	77.29	94.40	17.10	1289.7	11299.2	3.68	15.53	3.22	0.29	-4.64			
10-Jun-90	0.19	0.85	0.00	77.28	94.40	17.13	1289.9	11302.9	3.69	17.36			-15.70			
11-Jun-90	0.20	0.85	0.01	77.28	94.40	17.12	1290.1	11306.6	3.69	18.28	1.08	0.10	-21.05			
12-Jun-90	0.32	0.85	0.00	77.27	94.41	17.14	1290.3	11310.3	3.69	29.25			-20.79			
13-Jun-90	0.37	0.85	0.00	77.20	94.41	17.21	1290.5	11314.0	3.69	33.82			-32.93			
14-Jun-90	0.30	0.85	0.00	77.17	94.39	17.22	1289.1	11288.2	-25.80	27.39			-8.03			
15-Jun-90	0.25	0.85	0.00	77.18	94.37	17.19	1287.7	11262.4	-25.77	22.80			-1.63			
16-Jun-90	0.27	0.85	0.00	77.12	94.35	17.23	1286.2	11236.7	-25.74	24.60			2.94	1.325E-04		
17-Jun-90	0.24	0.85	0.01	77.09	94.33	17.24	1284.8	11211.0	-25.71	21.84	1.07	0.10	1.11	5.018E-05		
18-Jun-90	0.25	0.85	0.45	77.07	94.31	17.24	1283.4	11185.3	-25.68	22.73	48.13	4.34	5.01	2.283E-04		
19-Jun-90	0.30	0.85	0.00	77.14	94.29	17.15	1282.0	11159.6	-25.65	27.24			55.40	2.520E-03		
20-Jun-90	0.30	0.85	0.00	77.02	94.27	17.25	1280.5	11134.0	-25.63	27.21			-1.62			
21-Jun-90	0.32	0.85	0.00	76.97	94.23	17.26	1277.7	11082.8	-51.16	28.96			23.95	1.086E-03		
22-Jun-90	0.31	0.85	0.01	77.00	94.27	17.26	1280.3	11129.7	46.90	28.11	1.07	0.10	-75.86			
23-Jun-90	0.16	0.85	2.86	77.19	94.30	17.11	1282.9	11176.7	46.99	14.54	305.76	27.61	-73.94			
24-Jun-90	0.13	0.85	0.64	77.32	94.34	17.02	1285.5	11223.8	47.09	11.84	68.56	6.18	271.74	1.242E-02		
25-Jun-90	0.15	0.85	0.00	77.28	94.38	17.09	1288.1	11271.0	47.18	13.69			15.72	7.139E-04		
26-Jun-90	0.26	0.85	0.00	77.24	94.41	17.17	1290.7	11318.3	47.28	23.77			-60.97			
27-Jun-90	0.10	0.85	3.26	77.22	94.45	17.23	1293.4	11365.6	47.38	9.16	351.36	31.47	-71.15			
28-Jun-90	0.16	0.85	0.00	77.19	94.44	17.25	1292.9	11357.0	-8.62	14.65			382.29	1.714E-02		
29-Jun-90	0.22	0.85	0.00	77.18	94.44	17.26	1292.4	11348.4	-8.62	20.14			-6.04			
30-Jun-90	0.24	0.85	0.08	77.23	94.43	17.20	1291.9	11339.8	-8.61	21.96	8.61	0.77	-11.53			
01-Jul-90	0.27	0.91	0.00	77.34	94.42	17.08	1291.5	11331.2	-8.61	26.44			-3.97			
02-Jul-90	0.26	0.91	0.02	77.32	94.42	17.10	1291.0	11322.6	-8.61	25.45	2.15	0.19	-17.83			
03-Jul-90	0.19	0.91	0.68	77.30	94.41	17.11	1290.5	11314.0	-8.60	18.59	73.13	6.56	-14.50			
04-Jul-90	0.06	0.91	0.05	77.20	94.39	17.19	1289.3	11291.4	-22.57	5.87	5.37	0.48	83.67	3.775E-03		
05-Jul-90	0.18	0.91	0.00	77.18	94.38	17.19	1288.0	11268.8	-22.55	17.58			22.54	1.018E-03		
06-Jul-90	0.26	0.91	0.11	77.20	94.36	17.15	1286.8	11246.3	-22.53	25.37	11.80	1.06	4.95	2.242E-04		
07-Jul-90	0.32	0.91	0.00	77.12	94.34	17.22	1285.5	11223.8	-22.51	31.20			9.99	4.515E-04		
08-Jul-90	0.27	0.91	0.00	77.16	94.32	17.17	1284.3	11201.3	-22.49	26.30			-8.71			
09-Jul-90	0.30	0.91	0.00	77.07	94.31	17.23	1283.0	11178.9	-22.46	29.19			-3.83			
10-Jul-90	0.29	0.91	0.00	77.02	94.29	17.27	1281.8	11156.4	-22.44	28.19			-6.75			
11-Jul-90	0.28	0.91	0.05	77.00	94.27	17.27	1280.5	11134.0	-22.42	27.19	5.34	0.48	-5.77			
12-Jul-90	0.28	0.91	0.86	77.01	94.26	17.25	1279.9	11123.0	-10.97	27.18	91.73	8.30	-10.40			
13-Jul-90	0.32	0.91	1.13	77.14	94.25	17.11	1279.3	11112.0	-10.97	31.04	120.47	10.91	83.82	3.828E-03		
14-Jul-90	0.10	0.91	2.47	77.19	94.24	17.05	1278.7	11101.1	-10.96	9.70	263.20	23.84	111.30	5.105E-03		
15-Jul-90	0.05	0.91	2.63	77.25	94.24	16.99	1278.1	11090.1	-10.96	4.85	280.12	25.39	288.31	1.328E-02		

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
16-Jul-90	0.20	0.91	0.00	77.16	94.23	17.07	1277.5	11079.2	-10.95	19.38			311.61	1.429E-02
17-Jul-90	0.21	0.91	0.18	77.15	94.22	17.07	1276.9	11068.2	-10.95	20.33	19.15	1.74	-8.43	
18-Jul-90	0.22	0.91	0.00	77.12	94.21	17.09	1276.3	11057.3	-10.94	21.29			11.50	5.272E-04
19-Jul-90	0.18	0.91	0.01	77.18	94.24	17.06	1278.4	11095.6	38.32	17.45	1.07	0.10	-59.61	
20-Jul-90	0.27	0.91	1.32	77.19	94.27	17.08	1280.5	11134.0	38.38	26.22	140.86	12.74	-54.67	
21-Jul-90	0.22	0.91	0.53	77.23	94.29	17.06	1281.7	11154.5	20.50	21.38	56.61	5.12	106.88	4.889E-03
22-Jul-90	0.24	0.91	0.25	77.27	94.30	17.04	1282.8	11175.0	20.52	23.35	26.73	2.41	19.83	9.072E-04
23-Jul-90	0.24	0.91	0.00	77.28	94.32	17.04	1284.0	11195.5	20.53	23.37			-14.74	
24-Jul-90	0.32	0.91	0.00	77.25	94.33	17.09	1285.1	11216.1	20.55	31.18			-43.92	
25-Jul-90	0.30	0.91	0.00	77.21	94.35	17.14	1286.2	11236.7	20.57	29.26			-51.76	
26-Jul-90	0.27	0.91	0.00	77.17	94.34	17.18	1285.8	11229.3	-7.35	26.33			-21.91	
27-Jul-90	0.31	0.91	0.00	77.17	94.34	17.17	1285.4	11222.0	-7.35	30.22			-18.98	
28-Jul-90	0.32	0.91	0.07	77.24	94.33	17.09	1285.0	11214.6	-7.34	31.18	7.50	0.68	-22.87	
29-Jul-90	0.12	0.91	0.00	77.32	94.33	17.01	1284.6	11207.3	-7.34	11.69			-15.67	
30-Jul-90	0.27	0.91	0.00	77.23	94.32	17.09	1284.2	11199.9	-7.34	26.29			-4.35	
31-Jul-90	0.28	0.91	0.00	77.18	94.32	17.13	1283.8	11192.6	-7.34	27.26			-18.96	
01-Aug-90	0.28	0.91	0.00	77.08	94.31	17.23	1283.4	11185.3	-7.33	27.25			-19.92	
02-Aug-90	0.29	0.91	0.00	77.06	94.31	17.25	1283.0	11178.9	-6.42	28.22			-20.83	
03-Aug-90	0.21	0.91	0.05	77.07	94.30	17.23	1282.7	11172.4	-6.41	20.43	5.34	0.48	-21.80	
04-Aug-90	0.16	0.91	0.36	77.02	94.30	17.27	1282.3	11166.0	-6.41	15.56	38.47	3.48	-8.19	
05-Aug-90	0.24	0.91	0.00	77.01	94.29	17.28	1282.0	11159.6	-6.41	23.33			32.80	1.481E-03
06-Aug-90	0.31	0.91	0.00	76.95	94.27	17.33	1280.8	11138.5	-21.11	30.11			-2.23	
07-Aug-90	0.27	0.91	0.00	76.99	94.26	17.26	1279.6	11117.4	-21.09	26.20			-9.02	
08-Aug-90	0.15	0.91	2.35	76.99	94.24	17.25	1278.4	11096.4	-21.07	14.54	250.36	22.69	-5.13	
09-Aug-90	0.10	0.91	0.11	77.00	94.22	17.22	1277.3	11075.3	-21.05	9.69	11.71	1.06	279.55	1.271E-02
10-Aug-90	0.06	0.91	0.09	77.00	94.21	17.21	1276.1	11054.3	-21.03	5.81	9.57	0.87	24.11	1.098E-03
11-Aug-90	0.16	0.91	0.21	76.99	94.19	17.20	1274.9	11033.3	-21.01	15.47	22.31	2.03	25.64	1.169E-03
12-Aug-90	0.17	0.91	0.03	76.98	94.17	17.19	1273.8	11012.3	-20.99	16.42	3.18	0.29	29.86	1.364E-03
13-Aug-90	0.23	0.91	0.00	76.94	94.16	17.22	1272.6	10991.3	-20.97	22.20			8.02	3.661E-04
14-Aug-90	0.20	0.91	0.67	76.92	94.14	17.22	1271.4	10970.4	-20.95	19.28	70.99	6.47	-1.25	
15-Aug-90	0.14	0.91	0.14	76.88	94.13	17.24	1270.2	10949.4	-20.93	13.49	14.82	1.35	79.10	3.612E-03
16-Aug-90	0.18	0.91	0.01	76.89	94.11	17.22	1269.1	10928.5	-20.91	17.32	1.06	0.10	23.60	1.080E-03
17-Aug-90	0.22	0.91	0.00	76.96	94.09	17.14	1267.9	10907.6	-20.89	21.15			4.72	2.174E-04
18-Aug-90	0.26	0.91	0.50	77.01	94.08	17.06	1266.7	10886.8	-20.87	24.98	52.78	4.83	-0.28	
19-Aug-90	0.25	0.91	0.00	76.93	94.06	17.13	1265.5	10865.9	-20.85	23.99			53.49	2.467E-03
20-Aug-90	0.28	0.91	0.00	76.89	94.04	17.15	1264.4	10845.1	-20.83	26.85			-3.16	
21-Aug-90	0.27	0.91	1.52	76.86	94.03	17.16	1263.2	10824.3	-20.82	25.86	160.01	14.67	-6.03	
22-Aug-90	0.26	0.91	0.05	76.87	94.01	17.14	1262.0	10803.5	-20.80	24.88	5.26	0.48	169.61	7.843E-03
23-Aug-90	0.14	0.91	0.23	76.86	94.00	17.15	1261.4	10792.6	-10.81	13.39	24.18	2.22	-8.33	
24-Aug-90	0.10	0.91	0.00	76.81	93.99	17.18	1260.8	10781.8	-10.81	9.56			23.81	1.099E-03
25-Aug-90	0.23	0.91	0.00	76.84	93.98	17.15	1260.2	10771.0	-10.80	21.98			1.24	5.753E-05
26-Aug-90	0.19	0.91	0.00	76.88	93.98	17.09	1259.6	10760.2	-10.80	18.15			-11.18	
27-Aug-90	0.22	0.91	0.00	76.88	93.97	17.08	1259.0	10749.4	-10.79	21.00			-7.35	
28-Aug-90	0.34	0.91	1.35	76.88	93.96	17.08	1258.4	10738.6	-10.79	32.45	141.57	13.03	-10.22	
29-Aug-90	0.21	0.91	0.00	76.83	93.95	17.12	1257.8	10727.9	-10.78	20.03			132.94	6.173E-03
30-Aug-90	0.26	0.91	0.00	76.76	93.94	17.17	1256.9	10713.5	-14.37	24.78			-5.66	
31-Aug-90	0.21	0.91	0.43	76.76	93.93	17.17	1256.1	10699.1	-14.36	20.00	45.01	4.15	-10.42	
01-Sep-90	0.13	0.85	0.00	76.75	93.92	17.16	1255.3	10684.8	-14.35	11.56			43.51	2.019E-03
02-Sep-90	0.25	0.85	0.29	76.75	93.90	17.16	1254.5	10670.4	-14.34	22.22	30.32	2.80	2.78	1.293E-04
03-Sep-90	0.17	0.85	0.11	76.74	93.89	17.15	1253.7	10656.1	-14.33	15.10	11.49	1.06	25.23	1.173E-03
04-Sep-90	0.24	0.85	0.00	76.73	93.88	17.15	1252.9	10641.8	-14.32	21.30			11.78	5.483E-04
05-Sep-90	0.18	0.85	0.00	76.73	93.87	17.14	1252.1	10627.5	-14.31	15.96			-6.98	
06-Sep-90	0.18	0.85	0.18	76.72	93.85	17.13	1250.9	10607.4	-20.02	15.95	18.76	1.74	4.06	1.894E-04
07-Sep-90	0.21	0.85	0.00	76.71	93.84	17.12	1249.8	10587.4	-20.01	18.59			24.56	1.148E-03
08-Sep-90	0.20	0.85	0.00	76.71	93.82	17.11	1248.6	10567.5	-19.99	17.69			1.40	6.537E-05
09-Sep-90	0.23	0.85	0.00	76.70	93.81	17.10	1247.5	10547.5	-19.97	20.32			2.28	1.069E-04
10-Sep-90	0.19	0.85	0.00	76.70	93.79	17.09	1246.4	10527.5	-19.95	16.77			-0.37	
11-Sep-90	0.15	0.85	0.00	76.69	93.78	17.09	1245.7	10515.1	-12.46	13.24			-4.31	
12-Sep-90	0.23	0.85	0.16	76.68	93.77	17.09	1244.9	10502.6	-12.45	20.28	16.60	1.54	-0.78	
13-Sep-90	0.26	0.85	0.00	76.68	93.76	17.08	1244.2	10490.2	-12.45	22.91			10.31	4.849E-04
14-Sep-90	0.27	0.85	0.00	76.67	93.75	17.08	1243.5	10477.7	-12.44	23.78			-10.48	
15-Sep-90	0.21	0.85	0.00	76.66	93.74	17.08	1242.8	10465.3	-12.43	18.49			-11.35	
16-Sep-90	0.12	0.85	0.36	76.66	93.73	17.07	1242.1	10452.9	-12.42	10.56	37.26	3.48	-6.06	
17-Sep-90	0.20	0.85	0.22	76.65	93.72	17.07	1241.4	10440.5	-12.42	17.59	22.76	2.12	42.60	2.010E-03
18-Sep-90	0.25	0.85	0.00	76.65	93.71	17.06	1240.7	10428.1	-12.41	21.97			19.71	9.308E-04
19-Sep-90	0.26	0.85	0.00	76.64	93.69	17.05	1239.3	10403.3	-24.80	22.82			2.83	1.339E-04
20-Sep-90	0.23	0.85	0.00	76.63	93.67	17.04	1237.8	10378.5	-24.77	20.17			1.95	9.237E-05
21-Sep-90	0.23	0.85	0.00	76.63	93.64	17.01	1235.7	10341.4	-37.10	20.13			16.94	8.056E-04
22-Sep-90	0.24	0.85	0.00	76.62	93.61	16.99	1233.6	10304.3	-37.04	20.97			16.91	8.067E-04
23-Sep-90	0.26	0.85	0.00	76.61	93.58	16.97	1231.4	10267.4	-36.97	22.68			16.00	7.660E-04

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
 Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
24-Sep-90	0.31	0.85	0.00	76.61	93.55	16.94	1229.3	10230.5	-36.91	26.99			14.23	6.833E-04
25-Sep-90	0.23	0.85	0.00	76.60	93.52	16.92	1227.2	10193.6	-36.85	19.99			9.85	4.746E-04
26-Sep-90	0.21	0.85	0.00	76.60	93.49	16.89	1225.0	10156.8	-36.78	18.22			16.79	8.113E-04
27-Sep-90	0.17	0.85	0.00	76.59	93.48	16.89	1224.4	10146.3	-10.50	14.74			-7.72	
28-Sep-90	0.22	0.85	0.00	76.58	93.47	16.89	1223.8	10135.8	-10.49	19.07			-4.25	
29-Sep-90	0.13	0.85	0.68	76.58	93.46	16.89	1223.2	10125.3	-10.49	11.26	69.31	6.56	-8.58	
30-Sep-90	0.06	0.85	0.14	76.57	93.46	16.89	1222.6	10114.9	-10.48	5.20	14.26	1.35	75.10	3.638E-03
01-Oct-90	0.10	0.76	0.00	76.56	93.45	16.88	1222.0	10104.4	-10.48	7.74			20.90	1.013E-03
02-Oct-90	0.21	0.76	0.00	76.56	93.44	16.88	1221.4	10093.9	-10.47	16.24			2.73	1.325E-04
03-Oct-90	0.24	0.76	0.00	76.55	93.43	16.88	1220.7	10083.5	-10.47	18.56			-5.78	
04-Oct-90	0.20	0.76	0.00	76.54	93.43	16.88	1220.5	10080.0	-3.49	15.46			-15.07	
05-Oct-90	0.16	0.76	0.00	76.54	93.42	16.89	1220.3	10076.5	-3.49	12.37			-11.97	
06-Oct-90	0.15	0.76	0.08	76.53	93.42	16.89	1220.1	10073.0	-3.49	11.59	8.13	0.77	-8.88	
07-Oct-90	0.18	0.76	0.00	76.53	93.42	16.89	1219.9	10069.5	-3.49	13.91			0.80	3.887E-05
08-Oct-90	0.22	0.76	0.00	76.52	93.42	16.90	1219.7	10066.0	-3.49	16.99			-10.42	
09-Oct-90	0.21	0.76	0.00	76.51	93.41	16.90	1219.5	10062.5	-3.48	16.22			-13.51	
10-Oct-90	0.24	0.76	0.58	76.51	93.41	16.90	1219.3	10059.1	-3.48	18.53	58.93	5.60	-12.74	
11-Oct-90	0.18	0.76	1.68	76.50	93.43	16.93	1220.5	10080.0	20.91	13.91	170.88	16.22	25.09	1.214E-03
12-Oct-90	0.05	0.76	0.74	76.49	93.44	16.95	1221.8	10100.9	20.93	3.87	75.34	7.14	152.25	7.352E-03
13-Oct-90	0.13	0.76	0.00	76.49	93.46	16.97	1223.0	10121.9	20.95	10.07			57.66	2.778E-03
14-Oct-90	0.18	0.76	0.00	76.48	93.48	17.00	1224.2	10142.8	20.98	13.96			-31.05	
15-Oct-90	0.19	0.76	0.00	76.48	93.50	17.02	1225.4	10163.8	21.00	14.75			-34.95	
16-Oct-90	0.19	0.76	0.00	76.47	93.51	17.04	1226.6	10184.8	21.02	14.76			-35.76	
17-Oct-90	0.16	0.76	0.00	76.46	93.53	17.07	1227.9	10205.9	21.04	12.44			-35.80	
18-Oct-90	0.18	0.76	0.00	76.46	93.53	17.07	1227.5	10199.7	-6.14	13.99			-6.30	
19-Oct-90	0.09	0.76	0.12	76.45	93.52	17.07	1227.2	10193.6	-6.14	6.99	12.27	1.16	-7.86	
20-Oct-90	0.16	0.76	0.00	76.44	93.55	17.11	1229.3	10230.5	36.85	12.46			-30.41	
21-Oct-90	0.13	0.76	0.00	76.44	93.58	17.14	1231.4	10267.4	36.91	10.14			-49.37	
22-Oct-90	0.28	0.76	0.00	76.43	93.61	17.18	1233.6	10304.3	36.97	21.88			-47.11	
23-Oct-90	0.05	0.76	0.31	76.43	93.64	17.21	1235.7	10341.4	37.04	3.91	31.92	2.99	-58.91	
24-Oct-90	0.15	0.76	0.00	76.42	93.67	17.25	1237.8	10378.5	37.10	11.76			-6.10	
25-Oct-90	0.11	0.76	0.00	76.41	93.64	17.23	1236.0	10346.7	-31.81	8.61			20.05	9.413E-04
26-Oct-90	0.09	0.76	0.00	76.41	93.62	17.21	1234.2	10314.9	-31.76	7.03			23.15	1.090E-03
27-Oct-90	0.11	0.76	0.00	76.40	93.59	17.19	1232.3	10283.2	-31.71	8.59			24.68	1.165E-03
28-Oct-90	0.12	0.76	0.00	76.39	93.57	17.17	1230.5	10251.5	-31.67	9.35			23.08	1.092E-03
29-Oct-90	0.11	0.76	0.00	76.39	93.54	17.15	1228.7	10219.9	-31.62	8.56			22.27	1.056E-03
30-Oct-90	0.12	0.76	0.00	76.38	93.52	17.13	1226.8	10188.3	-31.57	9.32			23.01	1.095E-03
31-Oct-90	0.11	0.76	0.00	76.38	93.49	17.11	1225.0	10156.8	-31.52	8.53			22.20	1.059E-03
01-Nov-90	0.10	0.71	0.00	76.37	93.48	17.11	1224.2	10142.8	-14.00	7.24			5.46	2.607E-04
02-Nov-90	0.15	0.71	0.00	76.36	93.47	17.10	1223.4	10128.8	-13.99	10.86			6.74	3.222E-04
03-Nov-90	0.15	0.71	0.00	76.35	93.46	17.10	1222.6	10114.9	-13.98	10.85			3.12	1.492E-04
04-Nov-90	0.13	0.71	0.00	76.34	93.44	17.10	1221.8	10100.9	-13.97	9.40			3.12	1.492E-04
05-Nov-90	0.12	0.71	0.00	76.34	93.43	17.10	1221.0	10086.9	-13.96	8.67			4.56	2.185E-04
06-Nov-90	0.15	0.71	0.00	76.33	93.42	17.10	1220.1	10073.0	-13.95	10.83			5.28	2.532E-04
07-Nov-90	0.13	0.71	0.00	76.34	93.41	17.07	1219.3	10059.1	-13.94	9.38			3.11	1.494E-04
08-Nov-90	0.12	0.71	0.00	76.33	93.41	17.08	1219.1	10055.6	-3.48	8.66			-5.90	
09-Nov-90	0.12	0.71	0.00	76.37	93.40	17.03	1218.9	10052.1	-3.48	8.65			-5.17	
10-Nov-90	0.12	0.71	0.77	76.37	93.40	17.03	1218.7	10048.6	-3.48	8.65	78.20	7.43	-5.17	
11-Nov-90	0.14	0.71	0.00	76.20	93.40	17.20	1218.5	10045.1	-3.48	10.09			80.46	3.839E-03
12-Nov-90	0.13	0.71	0.00	76.17	93.40	17.22	1218.3	10041.6	-3.48	9.37			-6.61	
13-Nov-90	0.11	0.71	0.00	76.14	93.39	17.25	1218.1	10038.2	-3.48	7.93			-5.89	
14-Nov-90	0.13	0.71	0.00	76.06	93.39	17.33	1217.9	10034.7	-3.48	9.37			-4.45	
15-Nov-90	0.15	0.71	0.00	76.10	93.38	17.28	1216.9	10017.3	-17.39	10.80			8.02	3.816E-04
16-Nov-90	0.12	0.71	0.00	76.15	93.36	17.21	1215.9	9999.9	-17.38	8.63			6.58	3.143E-04
17-Nov-90	0.10	0.71	0.00	76.22	93.35	17.13	1214.8	9982.5	-17.36	7.19			8.73	4.195E-04
18-Nov-90	0.16	0.71	0.00	76.16	93.33	17.17	1213.8	9965.2	-17.35	11.49			10.16	4.875E-04
19-Nov-90	0.13	0.71	0.00	76.13	93.32	17.18	1212.8	9947.9	-17.33	9.33			5.84	2.803E-04
20-Nov-90	0.09	0.71	0.00	76.10	93.30	17.21	1211.8	9930.5	-17.32	6.45			7.99	3.832E-04
21-Nov-90	0.09	0.71	0.00	76.09	93.29	17.20	1210.8	9913.2	-17.30	6.45			10.85	5.210E-04
22-Nov-90	0.10	0.71	0.00	76.11	93.28	17.18	1210.4	9906.3	-6.92	7.16			0.47	2.261E-05
23-Nov-90	0.10	0.71	0.00	76.16	93.28	17.12	1210.0	9899.4	-6.92	7.16			-0.25	
24-Nov-90	0.05	0.71	0.14	76.11	93.27	17.17	1209.6	9892.5	-6.91	3.58	14.11	1.35	-0.25	
25-Nov-90	0.10	0.71	0.00	76.05	93.27	17.21	1209.2	9885.6	-6.91	7.15			18.80	9.030E-04
26-Nov-90	0.10	0.71	0.00	76.03	93.26	17.23	1208.7	9878.7	-6.91	7.15			-0.25	
27-Nov-90	0.08	0.71	0.00	76.03	93.26	17.22	1208.3	9871.8	-6.91	5.72			-0.25	
28-Nov-90	0.06	0.71	0.16	76.04	93.25	17.21	1207.9	9864.9	-6.90	4.29	16.11	1.54	1.18	5.697E-05
29-Nov-90	0.07	0.71	0.00	76.03	93.23	17.21	1206.7	9844.2	-20.70	5.00			34.06	1.640E-03
30-Nov-90	0.19	0.71	0.00	75.93	93.22	17.28	1205.5	9823.5	-20.68	13.55			15.68	7.526E-04
01-Dec-90	0.13	0.83	0.00	75.90	93.20	17.30	1204.3	9802.8	-20.66	10.83			7.10	3.409E-04
02-Dec-90	0.08	0.83	0.00	75.92	93.18	17.27	1203.1	9782.2	-20.63	6.66			9.81	4.721E-04

LAKE GENEVA DAILY WATER BUDGET:

Runoff Coeff. = 0.01
Drain. Area (ac) = 11584

Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)
03-Dec-90	0.11	0.83	0.00	76.01	93.16	17.16	1201.8	9761.6	-20.61	9.14			13.96	6.768E-04
04-Dec-90	0.12	0.83	0.28	76.02	93.15	17.13	1200.6	9741.0	-20.59	9.97	28.01	2.70	11.45	5.566E-04
05-Dec-90	0.09	0.83	0.00	75.95	93.13	17.18	1199.4	9720.4	-20.57	7.47			41.32	2.006E-03
06-Dec-90	0.09	0.83	0.00	76.03	93.13	17.09	1199.0	9714.4	-6.00	7.46			-1.47	
07-Dec-90	0.04	0.83	0.00	76.11	93.12	17.01	1198.7	9708.4	-5.99	3.32			-1.47	
08-Dec-90	0.05	0.83	1.04	76.05	93.12	17.07	1198.7	9708.4	0.00	4.15	103.89	10.04	-3.32	
09-Dec-90	0.04	0.83	0.00	75.92	93.12	17.20	1198.7	9708.4	0.00	3.32			109.78	5.326E-03
10-Dec-90	0.12	0.83	0.00	75.92	93.13	17.21	1199.4	9720.4	11.99	9.95			-15.31	
11-Dec-90	0.12	0.83	0.00	75.95	93.13	17.18	1199.4	9720.4	0.00	9.95			-9.95	
12-Dec-90	0.08	0.83	0.00	75.92	93.13	17.21	1199.4	9720.4	0.00	6.64			-9.95	
13-Dec-90	0.04	0.83	0.00	75.93	93.13	17.19	1199.2	9717.0	-3.43	3.32			-3.21	
14-Dec-90	0.08	0.83	0.00	75.90	93.12	17.23	1199.0	9713.6	-3.43	6.63			0.11	5.239E-06
15-Dec-90	0.05	0.83	0.00	75.92	93.12	17.20	1198.8	9710.2	-3.43	4.15			-3.21	
16-Dec-90	0.04	0.83	0.00	75.99	93.12	17.13	1198.6	9706.7	-3.42	3.32			-0.72	
17-Dec-90	0.08	0.83	0.00	76.02	93.12	17.10	1198.4	9703.3	-3.42	6.63			0.11	5.278E-06
18-Dec-90	0.08	0.83	0.00	76.06	93.11	17.05	1198.2	9699.9	-3.42	6.63			-3.21	
19-Dec-90	0.08	0.83	0.00	75.98	93.11	17.13	1198.0	9696.5	-3.42	6.63			-3.21	
20-Dec-90	0.06	0.83	0.00	75.87	93.10	17.23	1197.0	9680.5	-15.97	4.97			9.34	4.528E-04
21-Dec-90	0.09	0.83	0.00	75.84	93.08	17.24	1196.1	9664.5	-15.95	7.45			10.99	5.328E-04
22-Dec-90	0.09	0.83	0.00	75.90	93.07	17.17	1195.1	9648.6	-15.94	7.44			8.50	4.140E-04
23-Dec-90	0.10	0.83	0.00	75.93	93.06	17.12	1194.2	9632.7	-15.93	8.26			8.49	4.152E-04
24-Dec-90	0.11	0.83	0.07	75.95	93.04	17.09	1193.2	9616.7	-15.92	9.08	6.96	0.68	7.66	3.754E-04
25-Dec-90	0.16	0.83	0.00	75.89	93.03	17.14	1192.3	9600.8	-15.90	13.19			14.46	7.076E-04
26-Dec-90	0.06	0.83	0.00	75.86	93.02	17.16	1191.3	9585.0	-15.89	4.94			2.70	1.319E-04
27-Dec-90	0.10	0.83	0.00	75.84	93.00	17.16	1190.4	9569.1	-15.88	8.23			10.93	5.352E-04
28-Dec-90	0.08	0.83	0.00	75.86	92.99	17.13	1189.4	9553.2	-15.87	6.58			7.63	3.746E-04
29-Dec-90	0.02	0.83	0.00	75.89	92.99	17.10	1189.1	9548.5	-4.76	1.64			-1.82	
30-Dec-90	0.07	0.83	0.00	75.93	92.98	17.05	1188.9	9543.7	-4.76	5.76			3.11	1.535E-04
31-Dec-90	0.07	0.83	0.00	75.92	92.98	17.05	1188.6	9538.9	-4.75	5.75			-1.00	
01-Jan-91	0.04	0.77	0.00	75.93	92.97	17.04	1188.3	9534.2	-4.75	3.05			-1.00	
02-Jan-91	0.01	0.77	0.00	75.93	92.97	17.04	1188.0	9529.4	-4.75	0.76			1.70	8.413E-05
03-Jan-91	0.06	0.77	0.00	75.91	92.96	17.05	1187.0	9512.5	-16.96	4.57			16.20	8.006E-04
04-Jan-91	0.06	0.77	0.00	75.87	92.94	17.07	1186.0	9495.5	-16.95	4.57			12.38	6.115E-04
05-Jan-91	0.05	0.77	0.00	75.83	92.93	17.09	1185.0	9478.6	-16.94	3.80			12.37	6.107E-04
06-Jan-91	0.04	0.77	0.00	75.83	92.91	17.08	1183.9	9461.7	-16.92	3.04			13.12	6.488E-04
07-Jan-91	0.05	0.77	0.00	75.87	92.90	17.03	1182.9	9444.8	-16.91	3.80			13.87	6.884E-04
08-Jan-91	0.06	0.77	0.00	75.84	92.88	17.04	1181.9	9427.9	-16.89	4.55			13.10	6.502E-04
09-Jan-91	0.06	0.77	0.00	75.74	92.87	17.13	1180.9	9411.0	-16.88	4.55			12.33	6.094E-04
10-Jan-91	0.12	0.77	0.00	75.78	92.89	17.11	1182.3	9434.6	23.63	9.10			-28.18	
11-Jan-91	0.07	0.77	0.13	75.91	92.91	17.00	1183.7	9458.3	23.66	5.32	12.82	1.25	-32.76	
12-Jan-91	0.16	0.77	2.07	76.03	92.93	16.90	1185.2	9482.0	23.69	12.17	204.44	19.98	-14.93	
13-Jan-91	0.21	0.77	0.00	75.92	92.95	17.03	1186.6	9505.7	23.72	15.99			188.54	9.333E-03
14-Jan-91	0.10	0.77	0.00	75.87	92.97	17.10	1188.0	9529.4	23.75	7.62			-39.74	
15-Jan-91	0.09	0.77	0.00	75.92	92.99	17.07	1189.4	9553.2	23.77	6.87			-31.40	
16-Jan-91	0.02	0.77	0.17	75.92	92.99	17.07	1189.4	9553.2	0.00	1.53	16.85	1.64	-6.87	
17-Jan-91	0.10	0.77	0.10	75.79	92.99	17.20	1189.4	9553.2	0.00	7.63	9.91	0.97	16.96	8.291E-04
18-Jan-91	0.09	0.77	0.00	75.73	92.98	17.25	1188.7	9541.3	-11.89	6.86			15.14	7.383E-04
19-Jan-91	0.08	0.77	0.11	75.82	92.98	17.16	1188.7	9541.3	0.00	6.10	10.90	1.06	-6.86	
20-Jan-91	0.15	0.77	1.26	75.88	92.98	17.10	1188.7	9541.3	0.00	11.44	124.82	12.16	5.86	2.881E-04
21-Jan-91	0.13	0.77	0.00	75.80	92.97	17.17	1188.0	9529.4	-11.88	9.91			137.42	6.736E-03
22-Jan-91	0.07	0.77	0.00	75.74	92.97	17.23	1188.0	9529.4	0.00	5.34			-9.91	
23-Jan-91	0.15	0.77	0.00	75.69	92.97	17.28	1188.0	9529.4	0.00	11.43			-5.34	
24-Jan-91	0.06	0.77	0.00	75.79	92.99	17.20	1189.2	9549.8	20.38	4.58			-31.81	
25-Jan-91	0.10	0.77	1.12	75.77	93.00	17.23	1190.4	9570.2	20.40	7.64	111.11	10.81	-24.98	
26-Jan-91	0.05	0.77	0.06	75.73	93.02	17.29	1191.7	9590.6	20.42	3.82	5.96	0.58	93.86	4.556E-03
27-Jan-91	0.05	0.77	0.00	75.78	93.04	17.26	1192.9	9611.1	20.44	3.83			-17.72	
28-Jan-91	0.06	0.77	0.80	75.86	93.06	17.19	1194.1	9631.5	20.46	4.60	79.61	7.72	-24.29	
29-Jan-91	0.02	0.77	0.05	75.85	93.07	17.22	1195.3	9652.0	20.48	1.53	4.98	0.48	62.25	3.024E-03
30-Jan-91	0.02	0.77	0.40	75.88	93.09	17.21	1196.5	9672.5	20.50	1.54	39.88	3.86	-16.57	
31-Jan-91	0.15	0.77	0.52	75.83	93.10	17.27	1197.3	9684.5	11.97	11.52	51.88	5.02	30.24	1.463E-03
01-Feb-91	0.08	0.69	0.05	75.73	93.10	17.37	1197.3	9684.5	0.00	5.51	4.99	0.48	45.38	2.182E-03
02-Feb-91	0.11	0.69	0.15	75.74	93.11	17.37	1198.0	9696.5	11.98	7.58	14.97	1.45	-12.01	
03-Feb-91	0.02	0.69	0.01	75.81	93.12	17.31	1198.7	9708.4	11.98	1.38	1.00	0.10	-3.14	
04-Feb-91	0.14	0.69	0.00	75.82	93.13	17.31	1199.4	9720.4	11.99	9.66			-12.27	
05-Feb-91	0.15	0.69	0.00	75.88	93.13	17.25	1199.4	9720.4	0.00	10.34			-9.66	
06-Feb-91	0.12	0.69	0.00	75.90	93.11	17.21	1198.0	9696.5	-23.97	8.27			13.63	6.609E-04
07-Feb-91	0.02	0.69	0.12	75.98	93.10	17.12	1197.3	9684.5	-11.98	1.38	11.97	1.16	3.71	1.810E-04
08-Feb-91	0.05	0.69	0.01	76.01	93.09	17.08	1196.5	9672.5	-11.97	3.44	1.00	0.10	23.72	1.161E-03
09-Feb-91	0.05	0.69	0.00	75.99	93.07	17.08	1195.1	9648.6	-23.92	3.44			21.57	1.057E-03
10-Feb-91	0.12	0.69	0.00	76.03	93.06	17.03	1194.4	9636.6	-11.95	8.24			8.51	4.186E-04

LAKE GENEVA DAILY WATER BUDGET:

											Runoff Coeff. = 0.01					
											Drain. Area (ac) = 11584					
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)		
11-Feb-91	0.16	0.69	0.00	75.97	93.04	17.07	1193.0	9612.8	-23.87	10.98			15.63	7.677E-04		
12-Feb-91	0.13	0.69	0.00	75.87	93.02	17.15	1191.6	9588.9	-23.85	8.91			12.87	6.298E-04		
13-Feb-91	0.12	0.69	0.00	75.94	93.01	17.07	1190.9	9577.0	-11.91	8.22			3.01	1.479E-04		
14-Feb-91	0.15	0.69	0.31	76.09	93.00	16.91	1190.1	9565.1	-11.90	10.26	30.75	2.99	3.69	1.832E-04		
15-Feb-91	0.19	0.69	0.01	75.95	92.98	17.03	1188.7	9541.3	-23.79	12.99	0.99	0.10	47.26	2.335E-03		
16-Feb-91	0.19	0.69	0.00	75.63	92.96	17.33	1187.3	9517.6	-23.76	12.97			11.86	5.765E-04		
17-Feb-91	0.10	0.69	0.00	75.66	92.94	17.28	1185.9	9493.8	-23.73	6.82			10.76	5.251E-04		
18-Feb-91	0.08	0.69	0.00	75.73	92.93	17.20	1185.2	9482.0	-11.86	5.45			5.04	2.471E-04		
19-Feb-91	0.16	0.69	0.00	75.73	92.92	17.19	1184.4	9470.1	-11.85	10.90			6.40	3.142E-04		
20-Feb-91	0.17	0.69	0.00	75.72	92.91	17.19	1183.7	9458.3	-11.84	11.57			0.94	4.640E-05		
21-Feb-91	0.19	0.69	0.00	75.72	92.90	17.17	1182.7	9441.4	-16.90	12.92			5.33	2.625E-04		
22-Feb-91	0.12	0.69	0.00	75.80	92.88	17.08	1181.7	9424.5	-16.89	8.15			3.97	1.965E-04		
23-Feb-91	0.11	0.69	0.00	75.84	92.87	17.02	1180.7	9407.6	-16.87	7.47			8.72	4.338E-04		
24-Feb-91	0.18	0.69	0.00	75.86	92.85	16.99	1179.7	9390.8	-16.86	12.21			9.39	4.685E-04		
25-Feb-91	0.10	0.69	0.00	75.87	92.84	16.97	1178.6	9373.9	-16.85	6.78			4.64	2.318E-04		
26-Feb-91	0.07	0.69	0.00	75.83	92.82	16.99	1177.6	9357.1	-16.83	4.74			10.05	5.024E-04		
27-Feb-91	0.20	0.69	0.00	75.71	92.81	17.10	1176.6	9340.3	-16.82	13.53			12.08	6.000E-04		
28-Feb-91	0.13	0.69	0.00	75.70	92.86	17.16	1179.9	9394.1	53.86	8.82			-67.39			
01-Mar-91	0.04	0.73	0.00	75.80	92.90	17.10	1183.1	9448.1	54.01	2.88			-62.83			
02-Mar-91	0.11	0.73	0.00	75.92	92.95	17.02	1186.4	9502.3	54.16	7.94			-57.04			
03-Mar-91	0.01	0.73	5.15	76.23	92.99	16.77	1189.6	9556.6	54.31	0.72	510.55	49.71	-62.25			
04-Mar-91	0.22	0.73	0.00	76.13	93.04	16.91	1192.9	9611.1	54.46	15.96			505.08	2.503E-02		
05-Mar-91	0.06	0.73	0.00	76.06	93.08	17.02	1196.1	9665.7	54.61	4.37			-70.57			
06-Mar-91	0.15	0.73	0.00	76.10	93.13	17.03	1199.4	9720.4	54.76	10.94			-59.12			
07-Mar-91	0.18	0.73	0.00	76.14	93.11	16.97	1198.2	9699.9	-20.55	13.12			9.61	4.725E-04		
08-Mar-91	0.16	0.73	0.00	76.19	93.10	16.91	1197.0	9679.3	-20.53	11.65			7.41	3.662E-04		
09-Mar-91	0.12	0.73	0.27	76.25	93.08	16.83	1195.7	9658.8	-20.51	8.73	26.90	2.61	8.86	4.403E-04		
10-Mar-91	0.10	0.73	0.00	76.24	93.06	16.83	1194.5	9638.4	-20.49	7.27			41.27	2.053E-03		
11-Mar-91	0.21	0.73	0.00	76.22	93.04	16.83	1193.3	9617.9	-20.47	15.24			13.20	6.574E-04		
12-Mar-91	0.14	0.73	0.00	76.27	93.03	16.76	1192.1	9597.4	-20.45	10.15			5.20	2.604E-04		
13-Mar-91	0.15	0.73	0.00	76.37	93.01	16.64	1190.9	9577.0	-20.43	10.87			10.27	5.185E-04		
14-Mar-91	0.10	0.73	0.04	76.36	93.05	16.69	1193.9	9628.1	51.10	7.26	3.98	0.39	-61.97			
15-Mar-91	0.26	0.73	0.09	76.24	93.10	16.86	1197.0	9679.3	51.23	18.93	8.98	0.87	-54.13			
16-Mar-91	0.12	0.73	0.35	76.21	93.14	16.93	1200.0	9730.7	51.36	8.76	35.00	3.38	-60.45			
17-Mar-91	0.14	0.73	0.63	76.43	93.18	16.75	1203.1	9782.2	51.49	10.25	63.16	6.08	-21.88			
18-Mar-91	0.01	0.73	2.80	76.66	93.22	16.56	1206.1	9833.8	51.62	0.73	281.42	27.03	7.37	3.690E-04		
19-Mar-91	0.12	0.73	0.00	76.60	93.27	16.67	1209.2	9885.6	51.76	8.83			255.96	1.270E-02		
20-Mar-91	0.18	0.73	0.00	76.56	93.31	16.75	1212.2	9937.5	51.89	13.27			-60.71			
21-Mar-91	0.17	0.73	0.00	76.62	93.30	16.68	1211.4	9923.6	-13.85	12.53			0.58	2.848E-05		
22-Mar-91	0.20	0.73	0.00	76.65	93.29	16.63	1210.6	9909.8	-13.84	14.73			1.31	6.516E-05		
23-Mar-91	0.18	0.73	0.00	76.64	93.28	16.64	1209.8	9896.0	-13.83	13.25			-0.90			
24-Mar-91	0.17	0.73	0.00	76.71	93.26	16.55	1209.0	9882.1	-13.82	12.50			0.57	2.870E-05		
25-Mar-91	0.16	0.73	0.00	76.76	93.25	16.50	1208.1	9868.3	-13.81	11.76			1.31	6.569E-05		
26-Mar-91	0.13	0.73	0.00	76.78	93.24	16.46	1207.3	9854.5	-13.80	9.55			2.04	1.028E-04		
27-Mar-91	0.19	0.73	0.00	76.82	93.23	16.41	1206.5	9840.7	-13.79	13.95			4.25	2.144E-04		
28-Mar-91	0.23	0.73	0.00	76.91	93.22	16.31	1205.5	9823.5	-17.23	16.87			3.28	1.670E-04		
29-Mar-91	0.18	0.73	0.00	77.01	93.20	16.19	1204.5	9806.3	-17.21	13.19			0.35	1.780E-05		
30-Mar-91	0.28	0.73	0.86	77.07	93.19	16.11	1203.5	9789.1	-17.20	20.50	86.25	8.30	4.01	2.068E-04		
31-Mar-91	0.09	0.73	0.00	77.06	93.17	16.12	1202.4	9771.9	-17.19	6.58			91.24	4.708E-03		
01-Apr-91	0.14	0.84	0.00	76.98	93.16	16.17	1201.4	9754.7	-17.17	11.77			10.59	5.448E-04		
02-Apr-91	0.20	0.84	0.00	76.97	93.14	16.18	1200.4	9737.6	-17.16	16.81			5.38	2.771E-04		
03-Apr-91	0.23	0.84	0.00	76.93	93.13	16.20	1199.4	9720.4	-17.14	19.31			0.34	1.728E-05		
04-Apr-91	0.20	0.84	0.00	76.94	93.14	16.20	1199.8	9727.3	6.85	16.80			-26.17			
05-Apr-91	0.18	0.84	0.01	76.98	93.14	16.16	1200.2	9734.1	6.86	15.12	1.00	0.10	-23.65			
06-Apr-91	0.12	0.84	0.00	77.01	93.15	16.14	1200.6	9741.0	6.86	10.09			-20.89			
07-Apr-91	0.18	0.84	0.00	77.11	93.15	16.04	1201.0	9747.9	6.86	15.13			-16.95			
08-Apr-91	0.18	0.84	0.01	77.08	93.16	16.07	1201.4	9754.7	6.86	15.14	1.00	0.10	-22.00			
09-Apr-91	0.19	0.84	0.47	77.18	93.16	15.98	1201.8	9761.6	6.87	15.98	47.07	4.54	-20.91			
10-Apr-91	0.13	0.84	0.53	77.25	93.17	15.92	1202.2	9768.5	6.87	10.94	53.10	5.12	28.76	1.502E-03		
11-Apr-91	0.17	0.84	0.10	77.21	93.15	15.94	1200.8	9744.4	-24.03	14.29	10.01	0.97	71.31	3.726E-03		
12-Apr-91	0.21	0.84	0.00	77.17	93.13	15.96	1199.4	9720.4	-24.00	17.63			20.68	1.080E-03		
13-Apr-91	0.23	0.84	0.00	77.18	93.11	15.93	1198.0	9696.5	-23.97	19.29			6.34	3.323E-04		
14-Apr-91	0.20	0.84	0.00	77.24	93.09	15.85	1196.5	9672.5	-23.95	16.75			4.68	2.456E-04		
15-Apr-91	0.25	0.84	0.01	77.21	93.07	15.86	1195.1	9648.6	-23.92	20.91	1.00	0.10	7.17	3.781E-04		
16-Apr-91	0.17	0.84	0.00	77.19	93.05	15.86	1193.7	9624.7	-23.89	14.21			4.07	2.148E-04		
17-Apr-91	0.20	0.84	0.00	77.26	93.03	15.77	1192.3	9600.8	-23.86	16.69			9.65	5.134E-04		
18-Apr-91	0.10	0.84	0.64	77.41	93.25	15.84	1207.9	9864.9	264.02	8.46	64.42	6.18	-280.71			
19-Apr-91	0.15	0.84	0.00	77.43	93.25	15.82	1207.9	9864.9	0.00	12.68			62.15	3.252E-03		
20-Apr-91	0.11	0.84	1.30	77.44	93.25	15.81	1207.9	9864.9	0.00	9.30	130.86	12.55	-12.68			
21-Apr-91	0.05	0.84	1.48	77.48	93.27	15.79	1209.4	9889.0	24.17	4.23	149.15	14.29	109.93	5.756E-03		

LAKE GENEVA DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 11584	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
22-Apr-91	0.23	0.84	0.00	77.43	93.29	15.86	1210.8	9913.2	24.20	19.49			135.01	7.031E-03	
23-Apr-91	0.19	0.84	0.00	77.46	93.31	15.85	1212.2	9937.5	24.23	16.12			-43.72		
24-Apr-91	0.02	0.84	0.26	77.43	93.33	15.90	1213.6	9961.7	24.26	1.70	26.30	2.51	-40.38		
25-Apr-91	0.20	0.84	0.00	77.39	93.35	15.96	1215.1	9986.0	24.29	17.01			2.82	1.453E-04	
26-Apr-91	0.10	0.84	1.11	77.47	93.37	15.90	1216.5	10010.3	24.32	8.52	112.52	10.72	-41.33		
27-Apr-91	0.07	0.84	0.03	77.54	93.36	15.82	1215.9	10000.2	-10.13	5.96	3.04	0.29	124.86	6.491E-03	
28-Apr-91	0.22	0.84	0.00	77.58	93.35	15.78	1215.3	9990.1	-10.13	18.72			7.50	3.913E-04	
29-Apr-91	0.25	0.84	0.00	77.60	93.35	15.74	1214.7	9979.9	-10.12	21.26			-8.59		
30-Apr-91	0.24	0.84	0.00	77.55	93.34	15.79	1214.1	9969.8	-10.12	20.40			-11.14		
01-May-91	0.24	0.82	0.00	77.56	93.33	15.77	1213.5	9959.7	-10.12	19.90			-10.28		
02-May-91	0.24	0.82	0.36	77.62	93.32	15.70	1212.9	9949.6	-10.11	19.89	36.39	3.48	-9.79		
03-May-91	0.22	0.82	0.00	77.65	93.30	15.65	1211.8	9929.9	-19.70	18.22			39.67	2.091E-03	
04-May-91	0.22	0.82	0.00	77.60	93.29	15.68	1210.6	9910.2	-19.68	18.20			1.46	7.716E-05	
05-May-91	0.18	0.82	0.00	77.61	93.27	15.66	1209.4	9890.6	-19.66	14.88			1.46	7.728E-05	
06-May-91	0.24	0.82	0.00	77.60	93.26	15.65	1208.3	9870.9	-19.64	19.82			4.77	2.521E-04	
07-May-91	0.14	0.82	0.11	77.62	93.24	15.62	1207.1	9851.3	-19.63	11.55	11.07	1.06	-0.19		
08-May-91	0.19	0.82	0.08	77.61	93.22	15.61	1206.0	9831.7	-19.61	15.66	8.04	0.77	20.19	1.072E-03	
09-May-91	0.28	0.82	0.00	77.57	93.21	15.64	1204.8	9812.1	-19.59	23.05			12.74	6.763E-04	
10-May-91	0.23	0.82	0.00	77.54	93.19	15.65	1203.7	9792.5	-19.57	18.92			-3.48		
11-May-91	0.23	0.82	0.02	77.62	93.19	15.57	1203.6	9791.0	-1.50	18.92	2.01	0.19	-17.41		
12-May-91	0.18	0.82	0.40	77.75	93.19	15.44	1203.5	9789.5	-1.50	14.80	40.12	3.86	-15.21		
13-May-91	0.20	0.82	0.00	77.77	93.19	15.42	1203.4	9788.0	-1.50	16.45			30.68	1.654E-03	
14-May-91	0.22	0.82	0.30	77.79	93.19	15.40	1203.3	9786.5	-1.50	18.09	30.08	2.90	-14.94		
15-May-91	0.27	0.82	0.00	77.70	93.18	15.49	1203.2	9785.0	-1.50	22.20			16.39	8.797E-04	
16-May-91	0.28	0.82	0.00	77.66	93.18	15.52	1203.1	9783.5	-1.50	23.02			-20.70		
17-May-91	0.26	0.82	0.50	77.74	93.18	15.44	1203.0	9782.0	-1.50	21.37	50.13	4.83	-21.52		
18-May-91	0.21	0.82	0.00	77.74	93.18	15.44	1203.0	9780.5	-1.50	17.26			35.08	1.889E-03	
19-May-91	0.29	0.82	0.00	77.74	93.17	15.43	1202.2	9768.5	-12.03	23.82			-5.24		
20-May-91	0.21	0.82	0.75	77.75	93.16	15.41	1201.5	9756.4	-12.02	17.24	75.10	7.24	-11.81		
21-May-91	0.21	0.82	0.00	77.72	93.15	15.43	1200.8	9744.4	-12.01	17.23			77.11	4.162E-03	
22-May-91	0.19	0.82	0.00	77.68	93.14	15.46	1200.1	9732.4	-12.00	15.58			-5.23		
23-May-91	0.19	0.82	0.01	77.67	93.13	15.46	1199.4	9720.4	-12.00	15.57	1.00	0.10	-3.58		
24-May-91	0.05	0.82	0.20	77.75	93.12	15.37	1198.7	9708.4	-11.99	4.10	19.98	1.93	-2.49		
25-May-91	0.09	0.82	0.08	77.80	93.11	15.31	1197.9	9694.5	-13.98	7.37	7.99	0.77	31.79	1.733E-03	
26-May-91	0.28	0.82	0.00	77.81	93.10	15.29	1197.0	9680.5	-13.97	22.90			15.36	8.392E-04	
27-May-91	0.09	0.82	0.25	77.81	93.09	15.27	1196.2	9666.5	-13.96	7.36	24.92	2.41	-8.94		
28-May-91	0.24	0.82	0.70	77.76	93.07	15.31	1195.4	9652.6	-13.95	19.60	69.73	6.76	33.93	1.853E-03	
29-May-91	0.21	0.82	0.00	77.73	93.06	15.33	1194.5	9638.6	-13.94	17.14			70.82	3.868E-03	
30-May-91	0.26	0.82	0.31	77.73	93.05	15.32	1193.7	9624.7	-13.93	21.21	30.84	2.99	-3.21		
31-May-91	0.15	0.82	0.03	77.72	93.07	15.35	1195.1	9648.6	23.89	12.25	2.99	0.29	-11.27		
01-Jun-91	0.09	0.85	1.67	77.81	93.10	15.29	1197.3	9684.5	35.89	7.63	166.62	16.12	-44.86		
02-Jun-91	0.24	0.85	0.00	77.85	93.11	15.26	1198.0	9696.5	11.98	20.37			163.13	8.924E-03	
03-Jun-91	0.28	0.85	0.00	77.82	93.12	15.30	1198.7	9708.4	11.98	23.77			-32.35		
04-Jun-91	0.20	0.85	0.00	77.87	93.13	15.26	1199.4	9720.4	11.99	16.99			-35.76		
05-Jun-91	0.29	0.85	1.03	77.92	93.13	15.21	1199.4	9720.4	0.00	24.64	102.95	9.94	-16.99		
06-Jun-91	0.17	0.85	0.42	77.97	93.14	15.18	1200.4	9737.6	17.14	14.45	42.01	4.05	71.11	3.904E-03	
07-Jun-91	0.12	0.85	0.06	78.02	93.16	15.14	1201.4	9754.7	17.16	10.21	6.01	0.58	14.46	7.948E-04	
08-Jun-91	0.04	0.85	0.09	78.07	93.17	15.11	1202.4	9771.9	17.17	3.41	9.02	0.87	-20.80		
09-Jun-91	0.22	0.85	0.00	78.11	93.19	15.07	1203.5	9789.1	17.19	18.75			-10.70		
10-Jun-91	0.30	0.85	0.00	78.16	93.20	15.04	1204.5	9806.3	17.20	25.60			-35.95		
11-Jun-91	0.25	0.85	0.00	78.21	93.22	15.01	1205.5	9823.5	17.21	21.35			-42.81		
12-Jun-91	0.22	0.85	0.00	78.26	93.23	14.97	1206.5	9840.7	17.23	18.80			-38.58		
13-Jun-91	0.29	0.85	0.00	78.31	93.22	14.91	1205.8	9828.7	-12.06	24.77			-6.74		
14-Jun-91	0.22	0.85	0.00	78.30	93.21	14.91	1205.1	9816.6	-12.05	18.78			-12.71		
15-Jun-91	0.22	0.85	0.00	78.39	93.20	14.81	1204.5	9807.0	-9.64	18.77			-9.14		
16-Jun-91	0.25	0.85	0.00	78.49	93.19	14.70	1203.9	9797.3	-9.63	21.32			-9.14		
17-Jun-91	0.23	0.85	0.00	78.52	93.19	14.67	1203.4	9787.7	-9.63	19.61			-11.69		
18-Jun-91	0.15	0.85	1.34	78.55	93.18	14.62	1202.8	9778.1	-9.62	12.78	134.31	12.94	-9.98		
19-Jun-91	0.12	0.85	0.07	78.53	93.17	14.64	1202.2	9768.5	-9.62	10.22	7.01	0.68	144.09	8.185E-03	
20-Jun-91	0.12	0.85	0.20	78.53	93.16	14.63	1201.6	9758.2	-10.30	10.21	20.03	1.93	7.77	4.419E-04	
21-Jun-91	0.26	0.85	0.00	78.54	93.15	14.61	1201.0	9747.9	-10.30	22.12			22.04	1.256E-03	
22-Jun-91	0.27	0.85	0.00	78.54	93.14	14.61	1200.4	9737.6	-10.29	22.96			-11.83		
23-Jun-91	0.27	0.85	0.00	78.55	93.14	14.58	1199.8	9727.3	-10.29	22.95			-12.67		
24-Jun-91	0.26	0.85	0.00	78.51	93.13	14.62	1199.2	9717.0	-10.28	22.09			-12.66		
25-Jun-91	0.23	0.85	0.32	78.57	93.12	14.55	1198.6	9706.7	-10.28	19.53	31.96	3.09	-11.81		
26-Jun-91	0.24	0.85	0.06	78.63	93.11	14.48	1198.0	9696.5	-10.27	20.37	5.99	0.58	25.80	1.487E-03	
27-Jun-91	0.18	0.85	1.42	78.61	93.10	14.49	1197.2	9682.8	-13.69	15.26	141.66	13.71	-0.11		
28-Jun-91	0.22	0.85	0.02	78.56	93.09	14.52	1196.3	9669.1	-13.68	18.64	1.99	0.19	153.78	8.850E-03	
29-Jun-91	0.28	0.85	0.00	78.61	93.08	14.47	1195.5	9655.4	-13.67	23.71			-2.79		
30-Jun-91	0.13	0.85	0.13	78.69	93.06	14.37	1194.7	9641.8	-13.66	11.00	12.94	1.25	-10.05		

LAKE GENEVA DAILY WATER BUDGET:

														Runoff Coeff. = 0.01	
														Drain. Area (ac) = 11584	
Date	Gaines. Evap. (in)	Pan Coeff.	Gaines. Precip. (in)	Floridan Aquifer Level (ft MSL)	Lake Elev. (ft MSL)	Delta H (Lake - Floridan) (ft)	Lake Surface Area (ac)	Lake Volume (ac-ft)	Change in Lake Volume (ac-ft)	Lake Evap. Volume (ac-ft)	Lake Precip. Volume (ac-ft)	Surface Runoff Volume (ac-ft)	Leakage Volume (ac-ft)	Leakance (1/day)	
01-Jul-91	0.20	0.91	0.00	78.72	93.05	14.33	1193.9	9628.1	-13.65	18.11			16.85	9.844E-04	
02-Jul-91	0.19	0.91	0.14	78.71	93.04	14.33	1193.1	9614.5	-13.64	17.19	13.92	1.35	-4.47		
03-Jul-91	0.23	0.91	0.00	78.69	93.03	14.34	1192.3	9600.8	-13.63	20.80			11.71	6.850E-04	
04-Jul-91	0.23	0.91	0.08	78.76	93.02	14.26	1191.7	9590.6	-10.22	20.78	7.94	0.77	-10.58		
05-Jul-91	0.30	0.91	0.17	78.72	93.01	14.29	1191.1	9580.4	-10.21	27.10	16.87	1.64	-1.86		
06-Jul-91	0.16	0.91	0.04	78.70	93.00	14.30	1190.4	9570.2	-10.21	14.44	3.97	0.39	1.62	9.539E-05	
07-Jul-91	0.16	0.91	0.00	78.69	93.00	14.31	1189.8	9560.0	-10.20	14.44			0.11	6.546E-06	
08-Jul-91	0.17	0.91	0.00	78.67	92.99	14.32	1189.2	9549.8	-10.20	15.33			-4.24		
09-Jul-91	0.21	0.91	0.26	78.75	92.98	14.23	1188.6	9539.6	-10.19	18.93	25.75	2.51	-5.14		
10-Jul-91	0.13	0.91	0.47	78.80	92.97	14.17	1188.0	9529.4	-10.19	11.71	46.53	4.54	19.52	1.160E-03	
11-Jul-91	0.17	0.91	1.09	78.69	92.97	14.28	1187.8	9526.0	-3.39	15.31	107.89	10.52	42.75	2.521E-03	
12-Jul-91	0.10	0.91	0.10	78.69	92.96	14.27	1187.6	9522.7	-3.39	9.01	9.90	0.97	106.49	6.282E-03	
13-Jul-91	0.07	0.91	0.00	78.69	92.96	14.27	1187.4	9519.3	-3.39	6.30			5.25	3.097E-04	
14-Jul-91	0.12	0.91	0.00	78.69	92.96	14.27	1187.2	9515.9	-3.39	10.80			-2.91		
15-Jul-91	0.13	0.91	0.02	78.69	92.96	14.27	1187.0	9512.5	-3.39	11.70	1.98	0.19	-7.41		
16-Jul-91	0.23	0.91	0.02	78.69	92.95	14.26	1186.8	9509.1	-3.39	20.70	1.98	0.19	-6.14		
17-Jul-91	0.22	0.91	0.00	78.72	92.95	14.23	1186.6	9505.7	-3.39	19.80			-15.14		
18-Jul-91	0.22	0.91	0.00	78.75	92.97	14.22	1188.2	9532.8	27.14	19.82			-46.94		
19-Jul-91	0.13	0.91	0.01	78.76	93.00	14.24	1189.8	9560.0	27.18	11.73	0.99	0.10	-47.00		
20-Jul-91	0.31	0.91	0.94	78.78	93.02	14.24	1191.5	9587.2	27.21	28.01	93.33	9.07	-37.86		
21-Jul-91	0.18	0.91	0.00	78.79	93.04	14.25	1193.1	9614.5	27.25	16.29			47.14	2.773E-03	
22-Jul-91	0.23	0.91	0.00	78.82	93.06	14.24	1194.7	9641.8	27.29	20.84			-43.57		
23-Jul-91	0.25	0.91	0.00	78.90	93.09	14.19	1196.3	9669.1	27.33	22.68			-48.16		
24-Jul-91	0.18	0.91	0.00	78.95	93.11	14.16	1198.0	9696.5	27.36	16.35			-50.04		
25-Jul-91	0.17	0.91	0.53	78.96	93.12	14.16	1198.7	9708.4	11.98	15.45	52.94	5.12	-28.34		
26-Jul-91	0.18	0.91	0.00	79.01	93.13	14.12	1199.4	9720.4	11.99	16.37			30.61	1.808E-03	
27-Jul-91	0.14	0.91	0.76	79.06	93.14	14.08	1200.1	9732.4	12.00	12.74	76.01	7.34	-28.37		
28-Jul-91	0.13	0.91	1.18	79.10	93.15	14.05	1200.8	9744.4	12.00	11.84	118.08	11.39	58.60	3.473E-03	
29-Jul-91	0.14	0.91	0.35	79.13	93.17	14.04	1202.6	9773.8	29.37	12.77	35.07	3.38	88.26	5.226E-03	
30-Jul-91	0.12	0.91	0.42	79.14	93.20	14.06	1204.3	9803.2	29.42	10.96	42.15	4.05	-3.73		
31-Jul-91	0.14	0.91	0.77	79.21	93.22	14.01	1206.0	9832.7	29.46	12.80	77.39	7.43	42.79	3.424E-04	
01-Aug-91	0.09	0.91	1.48	79.27	93.25	13.98	1207.8	9862.2	29.50	8.24	148.96	14.29	5.51	2.518E-03	
02-Aug-91	0.05	0.91	0.13	79.28	93.27	13.99	1209.5	9891.7	29.54	4.59	13.10	1.25	125.46	7.413E-03	
03-Aug-91	0.17	0.91	0.08	79.33	93.30	13.97	1211.3	9921.3	29.59	15.62	8.08	0.77	-19.82		
04-Aug-91	0.14	0.91	0.02	79.41	93.32	13.91	1213.0	9950.9	29.63	12.88	2.02	0.19	-36.40		
05-Aug-91	0.22	0.91	0.08	79.44	93.35	13.91	1214.7	9980.6	29.67	20.27	8.10	0.77	-40.34		
06-Aug-91	0.15	0.91	0.07	79.40	93.37	13.97	1216.5	10010.3	29.71	13.84	7.10	0.68	-41.11		
07-Aug-91	0.24	0.91	0.00	79.40	93.38	13.98	1217.2	10022.5	12.17	22.15			-18.23		
08-Aug-91	0.25	0.91	0.00	79.45	93.36	13.91	1215.9	10000.2	-22.30	23.05			0.15	8.887E-06	
09-Aug-91	0.21	0.91	0.07	79.50	93.34	13.84	1214.6	9977.9	-22.28	19.34	7.09	0.68	-0.77		
10-Aug-91	0.13	0.91	0.00	79.48	93.33	13.84	1213.3	9955.7	-22.26	11.96			10.67	6.354E-04	
11-Aug-91	0.20	0.91	0.16	79.45	93.31	13.86	1212.0	9933.4	-22.23	18.38	16.16	1.54	10.27	6.116E-04	
12-Aug-91	0.25	0.91	0.00	79.44	93.29	13.85	1210.7	9911.2	-22.21	22.95			21.53	1.284E-03	
13-Aug-91	0.10	0.91	0.05	79.45	93.27	13.82	1209.4	9889.0	-22.18	9.17	5.04	0.48	-0.77		
14-Aug-91	0.24	0.91	0.00	79.46	93.26	13.80	1208.6	9877.0	-12.09	22.00			8.44	5.061E-04	
15-Aug-91	0.29	0.91	0.00	79.44	93.25	13.81	1207.9	9864.9	-12.08	26.56			-9.91		
16-Aug-91	0.18	0.91	0.61	79.45	93.24	13.79	1207.2	9852.8	-12.08	16.48	61.37	5.89	-14.49		
17-Aug-91	0.20	0.91	0.00	79.50	93.23	13.73	1206.5	9840.7	-12.07	18.30			62.85	3.794E-03	
18-Aug-91	0.25	0.91	0.00	79.50	93.22	13.72	1205.8	9828.7	-12.06	22.86			-6.24		
19-Aug-91	0.17	0.91	0.00	79.43	93.21	13.78	1205.1	9816.6	-12.05	15.54			-10.81		
20-Aug-91	0.16	0.91	0.14	79.40	93.20	13.80	1204.4	9804.6	-12.05	14.61	14.05	1.35	-3.49		
21-Aug-91	0.14	0.91	0.01	79.34	93.19	13.85	1203.7	9792.5	-12.04	12.78	1.00	0.10	12.83	7.696E-04	
22-Aug-91	0.23	0.91	0.00	79.33	93.21	13.88	1205.3	9820.1	27.53	21.02			-39.21		
23-Aug-91	0.20	0.91	0.00	79.31	93.24	13.93	1206.9	9847.6	27.57	18.30			-48.59		
24-Aug-91	0.17	0.91	0.54	79.38	93.26	13.88	1208.5	9875.2	27.61	15.58	54.38	5.21	-45.91		
25-Aug-91	0.10	0.91	0.13	79.43	93.28	13.85	1210.2	9902.9	27.64	9.18	13.11	1.25	16.37	9.769E-04	
26-Aug-91	0.13	0.91	0.00	79.44	93.30	13.86	1211.8	9930.5	27.68	11.95			-22.49		
27-Aug-91	0.05	0.91	2.74	79.42	93.33	13.91	1213.4	9958.3	27.72	4.60	277.07	26.45	-39.66		
28-Aug-91	0.15	0.91	0.67	79.37	93.35	13.98	1215.1	9986.0	27.75	13.82	67.84	6.47	27.16	1.596E-02	
29-Aug-91	0.21	0.91	0.64	79.32	93.34	14.02	1214.2	9972.1	-13.88	19.34	64.76	6.18	74.37	4.369E-03	
30-Aug-91	0.14	0.91	0.00	79.38	93.33	13.95	1213.4	9958.3	-13.87	12.88			65.47	3.869E-03	
31-Aug-91	0.13	0.91	0.02	79.41	93.32	13.91	1212.6	9944.4	-13.86	11.95	2.02	0.19	0.98	5.815E-05	

Average = 8.071E-04
 Variance = 4.140E-06
 Std. Dev. = 2.035E-03

**D7. Long-Term Lake Stage Simulation Data Base for Lakes
Sand Hill, Magnolia, Brooklyn, and Geneva**

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
12/04/80			124.54		105.43				85.79		88.40		91.01	100.18	89.72	93.18
12/11/80	173.68	131.72	124.45		105.39				85.77		88.38		90.88		89.68	93.13
12/18/80	173.72	131.73	124.55		105.49				85.68		88.27		90.88		89.58	93.02
12/25/80	173.75	131.74	124.53		105.49				85.57		88.15		90.73		89.46	92.80
01/01/81	173.79	131.74	124.60		105.47				85.50		88.07		90.84		89.38	92.81
01/08/81	173.82	131.75	124.54	118.09	105.51				85.44		88.00		90.56	99.80	89.31	92.73
01/15/81	173.88	131.78	124.58	116.07	105.57				85.60		88.19		90.77		89.50	92.63
01/22/81	173.89	131.77	124.51	116.08	105.58				85.51		88.08		90.65		89.39	92.62
01/29/81	173.93	131.77	124.51	116.01	105.60				85.34		87.89		90.44		89.20	92.62
02/05/81	173.96	131.78	124.63	116.19	105.61				85.40		87.95		90.51		89.26	92.69
02/12/81	173.98	131.79	124.70	116.18	105.67				85.51		88.08		90.65		89.39	92.82
02/19/81	174.00	131.80	124.70	116.17	105.74				85.45		88.02		90.56		89.33	92.75
02/26/81	174.02	131.81	124.85	116.45	105.80				85.64		88.22		90.81	99.70	89.54	92.87
03/05/81	174.04	131.83	124.78	116.38	105.86				85.46		88.03		90.59		89.34	92.78
03/12/81	174.06	131.84	124.57	116.33	105.92				85.38		87.94		90.49		89.24	92.67
03/19/81	174.08	131.85	124.55	116.30	105.99				85.35		87.90		90.45		89.21	92.63
03/26/81	174.10	131.86	124.58	116.36	106.05				85.25		87.78		90.32		89.09	92.51
04/02/81	174.02	131.80	124.56	116.28	105.91				85.18		87.71		90.24	99.42	89.02	92.43
04/09/81	173.94	131.74	124.39	116.18	105.97				85.28		87.82		90.36		89.13	92.55
04/16/81	173.86	131.68	124.45	116.08	105.93				85.29		87.84		90.38		89.14	92.58
04/23/81	173.79	131.62	124.35	115.96	105.88				85.16		87.68		90.21		88.99	92.40
04/30/81	173.71	131.56	124.25	115.86	105.84				84.98		87.49		89.99		88.79	92.20
05/07/81	173.63	131.50	124.20	115.76	105.80				84.85		87.45		89.85		88.75	92.18
05/14/81	173.55	131.44	124.23	115.68	105.75				84.94		87.44		89.84	99.07	88.74	92.15
05/21/81	173.47	131.38	124.15	115.58	105.71				84.82		87.31		89.79		88.60	92.01
05/28/81	173.51	131.43	124.08	115.61	105.69				84.67		87.13		89.59		88.42	91.82
06/04/81	173.54	131.49	123.94	115.66	105.68				84.51		86.98		89.40		88.25	91.64
06/11/81	173.58	131.54	123.91	115.72	105.66				84.52		86.97		89.41		88.26	91.65
06/18/81	173.62	131.59	124.00	115.77	105.65				84.52		86.97		89.41		88.26	91.65
06/25/81	173.65	131.65	124.08	115.82	105.63				84.37		86.80		89.22		88.08	91.47
07/02/81	173.69	131.70	124.20	115.87	105.59				84.44		86.87		89.30		88.16	91.54
07/09/81	173.72	131.76	124.30	115.92	105.53				84.45		86.89		89.32		88.18	91.58
07/16/81	173.78	131.81	124.50	115.97	105.57				84.44		86.87		89.30	98.31	88.18	91.54
07/23/81	173.80	131.81	124.79	116.03	105.65				84.63		87.08		89.54		88.38	91.77
07/30/81	174.04	131.82	124.99	116.08	105.61				84.59		87.05		89.50		88.34	91.73
08/06/81	174.18	131.82	124.88	116.13	105.59				84.61		87.06		89.52		88.36	91.75
08/13/81	174.18	131.88	125.10	116.26	105.57				84.64		87.10		89.58		88.39	91.76
08/20/81	174.17	131.94	125.20	116.40	106.31				84.80		87.28		89.76	98.94	88.58	91.88
08/27/81	174.17	132.00	125.39	116.53	106.41				84.89		87.38		89.87		88.68	92.08
09/03/81	174.17	132.07	125.51	116.67	106.41				85.25		87.78		90.32		89.09	92.51
09/10/81	174.17	132.13	125.38	116.80	106.41				85.24		87.77		90.31		89.08	92.50
09/17/81	174.16	132.19	125.39	116.94	106.41				85.32		87.86		90.41		89.17	92.56
09/24/81	174.18	132.25	125.28	117.07	106.41				85.32		87.86		90.41	100.02	89.17	92.56
10/01/81	174.13	132.18	125.15	116.98	106.38				85.25		87.78		90.32		89.09	92.51
10/08/81	174.09	132.12	124.98	116.90	106.36				85.14		87.67		90.19		88.97	92.38
10/15/81	174.06	132.05	124.90	116.73	106.33				85.16		87.68		90.21		88.99	92.40
10/22/81	174.02	131.98	124.79	116.59	106.31				85.13		87.66		90.18		88.96	92.38
10/29/81	173.99	131.92	124.70	116.47	106.28				84.90		87.42		89.92		88.72	92.13
11/05/81	173.95	131.85	124.69	116.41	106.25				84.86		87.34		89.83		88.64	92.04
11/12/81	173.92	131.79	124.66	116.34	106.23				84.85		87.33		89.82		88.63	92.04
11/19/81	173.88	131.72	124.61	116.24	106.20				84.76		87.24		89.71	99.24	88.53	91.93
11/26/81	173.83	131.67	124.77	116.12	106.14				84.68		87.15		89.61		88.44	91.84
12/03/81	173.77	131.63	124.69	116.02	106.08				84.64		87.10		89.58		88.39	91.79
12/10/81	173.72	131.58	124.62	115.92	106.02				84.56		87.01		89.46		88.30	91.69
12/17/81	173.68	131.54	124.60	116.12	105.97				84.47		86.90		89.34		88.19	91.58
12/24/81	173.61	131.49	124.54	116.03	105.91				84.38		86.80		89.23		88.09	91.48
12/31/81	173.55	131.45	124.44	116.12	105.85				84.34		86.76		89.18		88.05	91.43
01/07/82	173.50	131.40	124.52	115.62	105.79				84.24		86.65		89.06	98.68	87.94	91.32
01/14/82	173.50	131.40	124.51	115.59	105.78				84.24		86.65		89.06		87.94	91.32
01/21/82	173.50	131.40	124.50	115.58	105.77				84.16		86.55		88.95		87.84	91.21
01/28/82	173.50	131.39	124.53	115.53	105.75				84.10		86.49		88.88		87.77	91.15
02/04/82	173.50	131.39	124.51	115.50	105.74				84.12		86.51		88.90		87.79	91.17
02/11/82	173.50	131.39	124.49	115.47	105.73				84.13		86.53		88.92	98.24	87.81	91.18
02/18/82	173.50	131.38	124.49	115.44	105.72				83.98		86.22		88.58		87.50	90.88
02/25/82	173.50	131.38	124.43	115.41	105.70				83.78		86.12		88.47		87.40	90.76
03/04/82	173.50	131.38	124.35	115.38	105.69				83.87		86.23		88.59		87.51	90.87
03/11/82	173.48	131.34	124.20	115.27	105.63				83.70		86.04		88.38		87.32	90.67
03/18/82	173.48	131.31	124.15	115.15	105.57				83.61		85.93		88.28		87.21	90.56
03/25/82	173.44	131.27	124.20	115.04	105.51				83.68		86.01		88.35	97.50	87.29	90.65
04/01/82	173.43	131.23	124.17	114.92	105.45				83.49		85.80		88.11		87.07	90.42

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
04/08/62	173.41	131.18	124.78	114.81	105.39				83.38		85.68		87.85		88.83	90.27
04/15/62	173.39	131.18	124.23	114.89	105.33				83.38		85.67		87.97		88.84	90.28
04/22/62	173.37	131.12	124.03	114.58	105.27				83.29		85.58		87.86		88.84	90.18
04/29/62	173.35	131.15	124.08	114.48	105.21				83.17		85.44		87.71		88.71	90.04
05/08/62	173.37	131.17	123.93	114.23	105.18				83.08		85.34		87.60	87.02	88.61	89.84
05/13/62	173.39	131.20	123.85	114.01	105.15				82.84		85.08		87.29		88.32	89.64
05/20/62	173.41	131.23	123.72	113.78	105.12				82.74		84.98		87.17		88.21	89.53
05/27/62	173.44	131.25	123.63	113.73	105.09				82.65		84.85		87.05		88.10	89.42
06/03/62	173.48	131.28	123.70	113.89	105.08				82.61		84.81		87.01		88.07	89.38
06/10/62	173.48	131.31	124.05	113.84	105.03				82.57		84.78		86.95		88.01	89.32
06/17/62	173.50	131.33	124.28	113.60	105.00				82.63		84.83		87.03	86.25	88.08	89.40
06/24/62	173.52	131.36	124.24	113.55	104.97				82.69		84.80		87.11		88.16	89.47
07/01/62	173.52	131.40	124.23	113.55	104.95				82.71		84.82		87.13		88.18	89.48
07/08/62	173.52	131.43	124.29	113.54	104.93				82.73		84.94		87.15		88.19	89.51
07/15/62	173.52	131.47	124.41	113.54	104.90				82.61		84.80		87.00		88.08	89.37
07/22/62	173.52	131.51	124.50	113.54	104.88				82.59		84.79		86.88	85.93	88.04	89.35
07/29/62	173.52	131.55	124.68	113.53	104.88				82.68		84.88		87.09		88.14	89.45
08/05/62	173.52	131.58	124.84	113.53	104.84				82.73		84.85		87.16		88.20	89.52
08/12/62	173.52	131.62	124.78	113.52	104.81				82.79		85.01		87.23		88.27	89.59
08/19/62	173.52	131.61	124.71	113.52	104.79				82.67		84.88		87.08		88.13	89.45
08/26/62	173.51	131.59	124.78	113.54	104.75				82.78		85.00		87.22	86.30	88.28	89.58
09/02/62	173.49	131.58	124.86	113.58	104.70				82.69		84.90		87.11		88.18	89.47
09/09/62	173.48	131.58	124.94	113.58	104.68				82.80		85.02		87.24		88.28	89.60
09/16/62	173.47	131.55	124.83	113.60	104.62				82.77		84.88		87.20		88.24	89.58
09/23/62	173.46	131.53	124.76	113.62	104.58				82.65		85.07		87.30		88.33	89.65
09/30/62	173.44	131.52	124.70	113.64	104.53				82.81		85.03		87.25		88.29	89.61
10/07/62	173.43	131.50	124.89	113.66	104.49				82.84		85.08		87.29		88.32	89.64
10/14/62	173.32	131.44	124.58	113.50	104.43				82.77		84.98		87.20	86.40	88.24	89.56
10/21/62	173.22	131.37	124.42	113.34	104.38				82.65		84.88		87.08		88.11	89.43
10/28/62	173.11	131.31	124.32	113.18	104.30				82.77		84.98		87.20		88.24	89.58
11/04/62	173.00	131.25	124.23	113.01	104.23				82.54		84.72		86.91		88.08	89.28
11/11/62	172.89	131.19	124.15	112.85	104.17				82.48		84.67		86.85		88.02	89.23
11/18/62	172.79	131.12	124.11	112.89	104.10				82.40		84.57		86.74		88.02	89.12
11/25/62	172.68	131.06	124.08	112.53	104.04				82.34		84.50		86.69		88.05	89.05
12/02/62	172.74	131.07	124.14	112.42	104.01				82.39		84.58		86.73		88.01	89.11
12/09/62	172.80	131.08	124.07	112.30	103.98				82.23		84.38		86.53	85.94	88.03	89.03
12/16/62	172.86	131.09	124.04	112.19	103.85				82.23		84.37		86.52		88.02	89.02
12/23/62	172.92	131.10	124.03	112.07	103.82				82.15		84.28		86.42		88.03	89.02
12/30/62	172.97	131.11	124.10	111.95	103.89				82.07		84.19		86.32		88.04	89.03
01/06/63	173.03	131.12	124.07	111.84	103.86				82.02		84.14		86.28		88.03	89.03
01/13/63	173.09	131.13	124.13	111.73	103.83				81.89		84.00		86.10		88.04	89.04
01/20/63	173.15	131.14	124.14	111.62	103.80				82.03		84.15		86.27		88.05	89.05
01/27/63	173.21	131.19	124.15	111.51	103.77				81.88		83.99		86.09		88.03	89.03
02/03/63	173.29	131.24	124.28	111.52	103.82				82.12		84.28		86.39		88.05	89.05
02/10/63	173.37	131.29	124.37	111.53	103.87				82.07		84.19		86.32		88.04	89.04
02/17/63	173.45	131.35	124.38	111.55	103.92				82.02		84.14		86.28	85.16	88.03	89.03
02/24/63	173.52	131.40	124.34	111.56	103.97				82.18		84.32		86.46		88.06	89.06
03/03/63	173.60	131.45	124.45	111.57	104.02				82.34		84.51		86.67		88.07	89.07
03/10/63	173.68	131.50	124.48	111.58	104.07				82.32		84.48		86.64		88.04	89.04
03/17/63	173.58	131.42	124.40	111.44	103.97				82.32		84.48		86.64		88.04	89.04
03/24/63	173.48	131.34	124.25	111.31	103.88				82.21		84.35		86.50		88.00	89.00
03/31/63	173.38	131.26	124.18	111.17	103.78				82.14		84.27		86.41		88.01	89.01
04/07/63	173.28	131.19	124.08	111.03	103.69				82.14		84.27		86.41		88.01	89.01
04/14/63	173.19	131.11	124.01	110.89	103.59				81.85		84.07		86.18		88.01	89.01
04/21/63	173.09	131.03	123.89	110.78	103.49				81.65		83.85		86.05	84.51	88.19	89.47
04/28/63	172.99	130.95	123.78	110.62	103.40				81.72		83.81		85.89		88.04	89.32
05/05/63	172.89	130.96	123.73	110.48	103.30				81.68		83.75		85.83		88.09	89.38
05/12/63	172.91	130.96	123.60	110.28	103.20				81.56		83.62		85.68		88.05	89.12
05/19/63	172.93	130.97	123.49	110.07	103.10				81.37		83.40		85.44		88.03	89.09
05/26/63	172.85	130.97	123.54	109.87	103.00				81.38		83.42		85.46		88.05	89.11
06/02/63	172.96	130.98	123.72	109.86	102.89				81.34		83.38		85.41		88.01	89.07
06/09/63	172.88	130.98	123.67	109.48	102.79				81.34		83.38		85.41		88.01	89.07
06/16/63	173.00	130.99	123.64	109.25	102.69				81.18		83.20		85.21	83.88	88.42	89.68
06/23/63	173.12	131.08	123.63	109.35	102.75				81.14		83.14		85.15		88.37	89.62
06/30/63	173.24	131.17	124.18	109.45	102.81				81.48		83.53		85.58		88.78	89.03
07/07/63	173.38	131.28	124.34	109.55	102.87				81.70		83.78		85.88		89.02	89.29
07/14/63	173.48	131.34	124.28	109.64	102.93				81.88		83.99		86.09		89.23	89.51
07/21/63	173.60	131.43	124.30	109.74	102.99				81.87		84.09		86.20		89.33	89.61
07/28/63	173.72	131.52	124.52	109.84	103.05				81.98		84.09		86.21		89.34	89.62
08/04/63	173.73	131.55	124.60	110.01	103.08				82.10		84.23		86.36		89.47	89.78

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
08/11/83	173.73	131.58	124.83	110.17	103.08				82.17		84.31		86.45		85.56	88.85
08/18/83	173.74	131.82	124.82	110.34	103.09				82.23		84.37		86.52		85.82	88.82
08/25/83	173.75	131.65	124.87	110.51	103.10				82.28		84.41		86.58		85.66	88.85
09/01/83	173.75	131.68	124.84	110.67	103.12				82.30		84.45		86.61		85.70	89.00
09/08/83	173.78	131.71	124.83	110.84	103.13				82.33		84.48		86.65	85.12	85.74	89.04
09/15/83	173.72	131.69	124.72	110.87	103.10				82.37		84.53		86.70		85.78	89.09
09/22/83	173.69	131.66	124.79	110.90	103.07				82.54		84.72		86.91		85.98	89.29
09/29/83	173.65	131.64	125.00	110.83	103.03				82.70		84.91		87.12		86.17	89.48
10/06/83	173.61	131.61	124.94	110.96	103.00				82.65		84.85		87.05		86.10	89.42
10/13/83	173.57	131.59	124.85	110.99	102.97				82.69		84.90		87.11		86.16	89.47
10/20/83	173.54	131.56	124.74	111.02	102.94				82.76		84.97		87.19	85.88	86.23	89.55
10/27/83	173.50	131.54	124.85	111.05	102.91				82.80		85.02		87.24		86.29	89.60
11/03/83	173.47	131.51	124.54	111.08	102.87				82.79		85.01		87.23		86.27	89.59
11/10/83	173.45	131.48	124.58	111.11	102.84				82.85		85.08		87.31		86.34	89.66
11/17/83	173.42	131.46	124.54	111.14	102.81				82.57		84.77		86.98		86.02	89.33
11/24/83	173.39	131.43	124.51	111.09	102.77				82.65		84.86		87.06		86.11	89.43
12/01/83	173.37	131.40	124.50	111.03	102.72				82.65		84.86		87.09		86.11	89.43
12/08/83	173.34	131.37	124.44	110.98	102.68				82.50		84.88		86.89		85.93	89.24
12/15/83	173.45	131.45	124.41	111.09	102.78				82.48		84.83		86.81		85.88	89.19
12/22/83	173.55	131.54	124.34	111.19	102.83				82.45		84.82		86.80		85.88	89.18
12/29/83	173.68	131.62	124.33	111.30	102.91				82.40		84.57		86.74		85.82	89.12
01/05/84	173.78	131.71	124.45	111.40	102.99				82.35		84.52		86.69	85.19	85.77	89.07
01/12/84	173.87	131.79	124.83	111.51	103.07				82.31		84.47		86.63		85.72	89.02
01/19/84	173.97	131.88	124.90	111.61	103.14				82.64		84.84		87.04		86.09	89.41
01/26/84	174.08	131.98	124.89	111.72	103.22				82.65		84.85		87.05		86.10	89.42
02/02/84	174.03	131.94	124.88	111.96	103.25				82.65		85.08		87.31		86.34	89.68
02/09/84	173.98	131.93	125.10	112.21	103.27				83.12		85.39		87.65		86.65	89.88
02/16/84	173.93	131.91	125.01	112.45	103.30				83.37		85.68		87.86		86.93	90.28
02/23/84	173.89	131.89	124.94	112.70	103.32				83.59		85.92		88.24		87.19	90.54
03/01/84	173.84	131.87	125.09	112.94	103.35				83.48		85.79		88.10		87.06	90.41
03/08/84	173.79	131.88	125.02	113.18	103.37				83.82		86.18		88.53	86.88	87.45	90.82
03/15/84	173.74	131.84	124.82	113.43	103.40				83.75		86.10		88.44		87.37	90.73
03/22/84	173.69	131.82	124.78	113.67	103.42				83.83		86.19		88.54		87.48	90.83
03/29/84	173.66	131.79	124.78	113.68	103.40				81.70		83.78		85.86		85.02	88.29
04/05/84	173.63	131.78	124.60	113.69	103.38				81.08		83.08		85.08		84.31	87.55
04/12/84	173.60	131.73	124.50	113.70	103.38				80.82		82.78		84.75		84.00	87.24
04/19/84	173.58	131.70	124.40	113.71	103.34				80.61		82.55		84.49		83.77	87.00
04/26/84	173.55	131.67	124.38	113.71	103.31				80.75		82.70		84.66		83.92	87.18
05/03/84	173.52	131.64	124.70	113.72	103.29				80.98		82.86		84.85	85.31	84.19	87.43
05/10/84	173.49	131.61	124.58	113.73	103.27				81.07		83.07		85.07		84.30	87.55
05/17/84	173.48	131.58	124.50	113.74	103.25				81.14		83.15		85.16		84.36	87.63
05/24/84	173.36	131.56	124.39	113.83	103.19				81.30		83.33		85.36		84.56	87.82
05/31/84	173.35	131.54	124.33	113.51	103.13				81.30		83.33		85.36		84.56	87.82
06/07/84	173.34	131.53	124.28	113.40	103.08				81.28		83.30		85.33		84.53	87.79
06/14/84	173.33	131.51	124.20	113.28	103.02				81.23		83.25		85.27		84.48	87.73
06/21/84	173.32	131.49	124.08	113.17	102.96				81.18		83.20		85.21		84.42	87.68
06/28/84	173.31	131.47	124.18	113.05	102.90				81.08		83.08		85.08		84.31	87.55
07/05/84	173.30	131.46	124.30	112.94	102.85				81.12		83.13		85.13		84.35	87.60
07/12/84	173.29	131.44	124.30	112.82	102.79				90.91		82.88		84.86	84.44	84.10	87.35
07/19/84	173.28	131.42	124.54	112.71	102.73				81.14		83.15		85.16		84.36	87.63
07/26/84	173.40	131.57	124.60	113.09	102.85				81.30		83.33		85.36		84.56	87.82
08/02/84	173.52	131.71	124.91	113.47	102.97				81.68		83.76		85.84		85.00	88.27
08/09/84	173.64	131.88	124.90	113.84	103.10				81.77		83.89		85.85		85.10	88.38
08/16/84	173.76	132.00	125.02	114.22	103.22				81.88		83.98		85.88		85.20	88.48
08/23/84	173.88	132.15	125.21	114.60	103.34				82.28		84.42		86.57		85.67	88.98
08/30/84	174.00	132.29	125.17	114.98	103.48				82.38		84.54		86.71		85.79	89.10
09/06/84	174.12	132.44	125.04	115.35	103.59				82.97		85.22		87.46		86.48	89.60
09/13/84	174.24	132.58	125.88	115.73	103.71				83.21		85.49		87.76		86.75	90.09
09/20/84	174.36	132.73	125.82	116.11	103.83				83.70		86.04		88.38	87.83	87.32	90.67
09/27/84	174.28	132.61	125.73	116.21	103.84				84.04		86.42		88.80		87.70	91.07
10/04/84	174.20	132.48	125.65	116.31	103.85				84.27		86.68		89.09		87.97	91.35
10/11/84	174.11	132.36	125.38	116.40	103.87				84.09		86.47		88.86		87.76	91.13
10/18/84	174.03	132.23	125.30	116.50	103.88				84.10		86.49		88.88		87.77	91.15
10/25/84	173.95	132.20	125.15	116.60	103.89				83.97		86.35		88.72		87.83	91.00
11/01/84	173.94	132.16	125.15	116.56	103.95				84.00		86.37		88.75	86.84	87.86	91.02
11/08/84	173.92	132.12	125.18	116.51	104.02				83.98		86.33		88.70		87.81	90.98
11/15/84	173.91	132.08	125.09	116.47	104.08				83.82		86.18		88.53		87.45	90.82
11/22/84	173.89	132.05	125.14	116.42	104.15				83.93		86.29		88.68		87.57	90.94
11/29/84	173.88	132.02	125.06	116.38	104.21				83.82		86.28		88.65		87.56	90.93
12/06/84	173.88	132.02	125.14	116.40	104.32				83.91		86.28		88.64		87.56	90.92

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
12/13/84	173.87	132.02	125.13	118.41	104.42				83.79		88.14		88.49		87.42	90.78
12/20/84	173.87	132.02	125.08	118.43	104.53				83.78		88.12		88.47		87.40	90.76
12/27/84	173.87	132.01	125.22	118.44	104.83				83.89		88.25		88.61		87.53	90.89
01/03/85	173.88	132.01	125.18	118.46	104.73	0.81	0.47	0.00	83.83		88.29		88.66	98.16	87.57	90.84
01/10/85	173.86	132.01	125.08	118.47	104.84	0.72	0.55	0.00	83.98		88.33		88.70	98.63	87.61	90.88
01/17/85	173.89	132.02	124.98	118.49	104.95	0.62	0.48	0.40	83.68		88.33		88.70	98.22	87.61	90.88
01/24/85	173.82	132.03	124.95	118.52	105.08	0.84	0.49	0.42	83.85		88.20		88.58	98.03	87.48	90.84
01/31/85	173.94	132.04	124.90	118.54	105.18	1.05	0.81	1.04	83.93		88.29		88.66	98.18	87.57	90.84
02/07/85	173.87	132.05	125.01	118.57	105.27	0.82	0.57	0.72	83.65		88.98		88.31	97.71	87.25	90.61
02/14/85	174.00	132.05	125.13	118.59	105.38	0.87	0.60	1.94	83.78		88.13		88.48	97.83	87.41	90.77
02/21/85	174.03	132.06	125.08	118.61	105.48	0.91	0.63	0.05	83.81		88.17		88.52	97.88	87.45	90.81
02/28/85	174.05	132.07	125.09	118.64	105.59	1.21	0.83	2.03	84.00		88.37		88.75	98.00	87.68	91.02
03/07/85	174.08	132.08	125.18	118.68	105.70	1.28	0.93	1.95	84.21		88.62		89.02	98.63	87.80	91.28
03/14/85	174.01	132.04	125.09	118.63	105.74	0.87	0.84	0.98	84.18		88.55		88.85	98.54	87.84	91.21
03/21/85	173.94	132.00	125.22	118.61	105.78	1.25	0.91	1.08	84.22		88.63		89.03	98.64	87.91	91.29
03/28/85	173.87	131.98	125.17	118.59	105.82	1.35	0.99	0.00	84.28		88.67		89.08	98.71	87.98	91.34
04/04/85	173.79	131.92	125.03	118.55	105.88	1.31	1.10	0.00	84.18		88.58		88.98	98.55	87.85	91.22
04/11/85	173.72	131.88	124.90	118.53	105.90	1.72	1.44	0.00	84.16		88.58		88.98	98.55	87.85	91.22
04/18/85	173.85	131.84	124.75	118.50	105.94	2.12	1.78	0.02	84.00		88.37		88.75	98.28	87.68	91.02
04/25/85	173.53	131.75	124.62	118.32	105.95	1.86	1.39	2.74	83.87		88.35		88.72	98.24	87.63	91.00
05/02/85	173.40	131.68	124.60	118.15	105.98	1.67	1.37	0.38	83.75		88.10		88.44	98.59	87.37	90.73
05/09/85	173.28	131.57	124.52	115.97	105.98	2.15	1.78	0.00	83.65		85.98		88.31	97.71	87.25	90.61
05/16/85	173.15	131.48	124.40	115.80	105.97	2.29	1.88	0.18	83.48		85.78		88.07	97.40	87.03	90.38
05/23/85	173.03	131.39	124.28	115.62	105.98	2.29	1.88	0.00	82.88		85.21		87.45	98.59	86.47	88.79
05/30/85	172.90	131.30	124.19	115.45	105.99	2.07	1.70	0.28	82.73		84.85		87.16	98.22	86.20	88.52
06/06/85	172.99	131.38	124.12	115.27	105.99	2.07	1.78	1.48	82.59		84.79		86.88	98.88	86.04	88.35
06/13/85	173.08	131.48	124.74	115.41	106.00	1.38	1.17	5.75	82.87		85.10		87.33	98.44	86.36	88.88
06/20/85	173.18	131.53	124.88	115.54	106.01	1.18	1.00	3.08	82.85		85.19		87.43	98.57	86.45	88.78
06/27/85	173.27	131.61	124.87	115.68	106.02	1.67	1.42	1.04	83.05		85.31		87.56	98.74	86.57	88.80
07/04/85	173.36	131.69	124.83	115.82	106.02	1.80	1.64	0.48	83.31		85.60		87.89	97.18	86.87	90.21
07/11/85	173.48	131.77	124.82	115.95	106.03	1.72	1.57	1.51	83.41		85.71		88.01	98.01	86.98	90.32
07/18/85	173.55	131.84	124.90	118.09	106.11	1.21	1.10	4.05	83.58		85.88		88.20	97.57	87.15	90.50
07/25/85	173.84	131.92	124.88	118.22	106.20	1.89	1.54	0.55	83.67		86.01		88.34	97.75	87.28	90.64
08/01/85	173.73	132.00	125.15	118.36	106.28	1.28	1.16	4.14	83.87		86.35		88.72	98.24	87.63	91.00
08/08/85	173.83	132.08	125.37	118.50	106.37	1.40	1.27	1.82	84.32		86.73		89.15	98.80	88.02	91.40
08/15/85	173.82	132.15	125.33	118.63	106.45	1.57	1.43	0.92	84.50		86.94		89.38	99.10	88.23	91.62
08/22/85	174.01	132.23	125.28	118.77	106.45	1.70	1.55	0.78	84.55		86.99		89.44	99.18	88.29	91.68
08/29/85	174.00	132.17	125.48	117.03	106.49	1.88	1.89	2.54	84.65		87.11		89.57	99.35	88.40	91.80
09/05/85	173.88	132.11	125.32	118.89	106.49	1.48	1.24	0.14	84.68		87.15		89.61	99.47	88.44	91.84
09/12/85	173.87	132.04	125.10	118.72	106.33	1.54	1.31	0.18	84.61		87.08		89.52	99.28	88.36	91.75
09/19/85	173.98	131.98	125.08	118.61	106.33	1.29	1.10	0.53	84.60		87.08		89.51	99.27	88.35	91.74
09/26/85	173.94	131.88	124.95	118.70	106.29	1.32	1.12	0.25	84.63		87.08		89.54	99.31	88.38	91.77
10/03/85	173.93	132.14	125.26	118.85	106.55	1.29	0.98	2.17	84.77		87.24		89.72	99.54	88.54	91.94
10/10/85	173.91	132.12	125.35	118.81	106.53	1.30	0.98	0.85	84.83		87.32		89.80	99.64	88.61	92.02
10/17/85	173.90	132.08	125.22	118.68	106.38	1.04	0.79	0.05	84.78		87.28		89.74	99.57	88.58	91.86
10/24/85	173.82	131.98	125.08	118.53	106.37	1.00	0.78	0.08	84.84		87.10		89.58	99.33	88.39	91.79
10/31/85	173.74	131.82	124.95	118.44	106.35	0.99	0.75	0.20	84.85		87.11		89.57	99.45	88.40	91.80
11/07/85	173.88	131.78	124.88	118.37	106.23	0.95	0.67	0.11	84.57		87.02		89.47	99.22	88.31	91.70
11/14/85	173.89	131.78	124.81	118.29	106.21	0.85	0.48	0.00	84.51		86.95		89.39	99.11	88.24	91.63
11/21/85	173.51	131.72	124.75	118.18	106.21	0.83	0.59	0.00	84.47		86.91		89.35	99.08	88.20	91.59
11/28/85	173.43	131.72	124.74	118.07	106.17	0.80	0.57	1.10	84.38		86.80		89.23	98.90	88.09	91.48
12/05/85	173.35	131.84	124.63	115.97	106.13	0.87	0.58	0.30	84.38		86.80		89.23	98.90	88.09	91.48
12/12/85	173.35	131.82	124.65	116.02	106.15	0.88	0.55	0.00	84.20		86.81		89.01	98.82	87.89	91.27
12/19/85	173.35	131.88	125.00	118.07	106.18	0.82	0.43	3.83	84.48		86.92		89.36	99.07	88.21	91.60
12/26/85	173.35	131.82	125.03	118.07	106.20	0.83	0.52	0.05	84.41		86.84		89.27	98.98	88.13	91.52
01/02/86	173.35	131.88	124.98	118.09	106.22	0.71	0.55	0.00	84.39		86.81		89.24	98.99	88.10	91.49
01/09/86	173.35	131.88	124.91	118.10	106.24	0.52	0.40	0.50	84.25		86.68		89.07	98.70	87.85	91.33
01/16/86	173.35	131.80	124.84	118.00	106.27	0.71	0.55	0.28	84.44		86.87		89.30	98.88	88.18	91.54
01/23/86	173.35	131.82	124.85	115.88	106.29	0.53	0.41	1.30	84.32		86.74		89.18	98.81	88.03	91.41
01/30/86	173.49	131.90	124.95	115.87	106.31	0.45	0.35	2.05	84.17		86.57		88.97	98.57	87.89	91.23
02/06/86	173.63	131.82	124.94	115.91	106.33	0.89	0.48	0.04	84.18		86.55		88.85	98.54	87.84	91.21
02/13/86	173.77	131.80	124.95	115.88	106.36	1.01	0.70	0.80	84.24		86.64		89.05	98.67	87.83	91.31
02/20/86	173.91	131.88	125.09	115.88	106.56	0.80	0.55	2.71	84.34		86.78		89.18	98.84	88.05	91.43
02/27/86	174.05	132.02	125.18	118.03	106.78	0.87	0.60	2.44	84.74		87.21		89.68	99.49	88.50	91.80
03/06/86	174.19	132.24	125.32	118.29	106.98	1.14	0.83	1.79	84.94		87.44		89.94	99.83	88.74	92.15
03/13/86	174.09	132.10	125.20	118.39	106.91	1.05	0.77	0.00	85.12		87.64		90.16	99.47	88.84	92.38
03/20/86	173.99	132.02	125.14	118.35	106.88	1.11	0.81	0.47	85.05		87.58		90.07	99.89	88.88	92.27
03/27/86	173.89	131.82	125.02	118.29	106.73	1.41	1.03	0.00	85.15		87.68		90.20	100.16	88.88	92.39
04/03/86	173.79	131.82	124.90	118.19	106.69	2.01	1.89	0.00	85.12		87.64		90.18	100.11	88.84	92.38
04/10/86	173.69	131.78	124.84	118.10	106.61	1.89	1.59	1.48	85.02		87.53		90.04	99.88	88.83	92.24

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
04/17/66	173.59	131.72	124.71	115.99	108.51	1.48	1.23	0.08	84.84		87.43		89.83	89.81	88.73	92.14
04/24/66	173.74	131.67	124.82	115.66	108.47	1.84	1.83	0.55	84.75		87.22		89.69	89.50	88.51	91.91
05/01/66	173.88	131.84	124.55	115.72	108.42	1.81	1.48	0.00	84.83		87.08		89.54	89.19	88.36	91.77
05/08/66	174.03	131.84	124.70	115.57	108.53	1.56	1.28	3.01	84.79		87.27		89.75	89.58	88.57	91.97
05/15/66	174.01	131.80	124.89	115.57	108.49	1.59	1.30	1.01	84.67		87.13		89.59	89.37	88.42	91.82
05/22/66	173.99	131.82	124.68	115.65	108.52	1.77	1.45	0.80	84.63		87.08		89.54	89.31	88.36	91.77
05/29/66	173.98	131.77	124.88	115.73	108.55	1.37	1.12	1.93	84.69		87.15		89.62	89.41	88.45	91.85
06/05/66	173.94	131.72	124.68	115.68	108.54	1.85	1.57	0.10	84.51		86.85		89.39	89.11	88.24	91.63
06/12/66	173.90	131.88	124.78	115.82	108.52	1.85	1.40	3.59	84.79		87.27		89.75	89.58	88.57	91.97
06/19/66	173.87	131.82	124.80	115.78	108.51	1.84	1.65	2.30	84.61		87.08		89.52	89.28	88.36	91.75
06/26/66	173.83	131.86	124.70	115.83	108.49	1.76	1.50	0.27	84.48		86.89		89.33	89.03	88.19	91.57
07/03/66	173.79	131.98	124.90	115.88	108.48	1.43	1.30	1.86	84.66		87.12		89.59	89.39	88.41	91.81
07/10/66	173.75	131.82	124.88	115.81	108.48	1.92	1.75	0.08	84.57		87.02		89.47	88.81	88.31	91.70
07/17/66	173.78	131.80	124.78	115.73	108.53	1.93	1.78	0.35	84.48		86.92		89.36	89.07	88.21	91.60
07/24/66	173.80	131.72	124.88	115.66	108.60	1.37	1.25	0.92	84.45		86.89		89.32	89.02	88.18	91.58
07/31/66	173.83	131.72	124.81	115.57	108.67	1.42	1.29	2.81	84.41		86.84		89.27	88.96	88.13	91.52
08/07/66	173.85	131.76	124.88	115.77	108.75	1.32	1.20	1.59	84.40		86.82		89.25	88.93	88.11	91.50
08/14/66	173.88	131.84	124.95	115.89	108.82	1.50	1.37	4.36	84.59		87.04		89.46	89.24	88.33	91.72
08/21/66	173.90	131.88	124.90	118.03	108.89	1.57	1.43	1.70	84.65		87.11		89.57	89.35	88.40	91.80
08/28/66	173.93	131.88	125.10	118.08	108.96	1.75	1.59	1.36	84.68		87.35		89.84	89.70	88.65	92.05
09/04/66		131.82	124.92	118.08	108.91	1.72	1.48	0.00	84.76		87.24		89.71	89.34	88.53	91.83
09/11/66		131.78	124.86	118.09	108.88	1.81	1.54	3.08	84.86		87.35		89.84	89.70	88.65	92.05
09/18/66		131.74	124.92	118.11	108.81	1.45	1.23	1.50	84.87		87.36		89.85	89.71	88.66	92.06
09/25/66		131.88	125.03	118.14	108.88	1.25	1.08	3.67	84.78		87.28		89.74	89.57	88.56	91.86
10/02/66		131.86	125.18	118.14	108.91	1.18	0.90	3.25	85.03		87.54		90.05	89.87	88.84	92.25
10/09/66		131.82	124.98	118.13	108.97	1.14	0.87	0.21	85.23		87.76		90.30	100.29	89.07	92.49
10/16/66		131.86	125.01	118.08	108.92	1.19	0.90	0.80	85.20		87.73		90.28	100.24	89.03	92.45
10/23/66		131.78	124.85	118.02	108.87	1.07	0.81	0.24	85.20		87.73		90.28	100.24	89.03	92.45
10/30/66		131.88	124.99	115.92	108.78	0.93	0.71	0.90	85.21		87.75		90.28	99.81	88.05	92.47
11/06/66		131.78	124.91	115.83	108.64	0.97	0.69	0.06	85.04		87.55		90.06	89.98	88.85	92.28
11/13/66		131.72	124.82	115.76	108.53	0.90	0.64	0.00	84.80		87.39		89.88	89.75	88.69	92.08
11/20/66		131.81	124.72	115.63	108.41	1.00	0.71	0.00	84.79		87.27		89.75	89.58	88.57	91.87
11/27/66		131.51	124.62	115.53	108.33	0.86	0.61	0.00	84.72		87.19		89.68	89.48	88.49	91.89
12/04/66		131.50	124.52	115.48	108.27	1.04	0.86	0.18	84.46		86.89		89.33	89.03	88.19	91.57
12/11/66		131.50	124.51	115.42	108.21	0.56	0.48	0.00	84.41		86.84		89.27	89.98	88.13	91.52
12/18/66		131.50	124.54	115.34	108.24	0.35	0.29	0.87	84.21		86.82		89.02	89.63	87.80	91.28
12/25/66		131.48	124.55	115.28	108.27	0.59	0.49	0.08	84.09		86.47		88.86	88.42	87.78	91.13
01/01/67		131.48	124.54	115.40	108.31	0.77	0.59	0.14	84.08		86.48		88.87	88.34	87.77	91.14
01/08/67		131.62	124.71	115.46	108.35	0.70	0.54	2.83	84.08		86.47		88.86	88.42	87.78	91.13
01/15/67		131.58	124.72	115.41	108.33	0.52	0.40	0.85	84.12		86.51		88.80	88.48	87.79	91.17
01/22/67		131.58	124.69	115.35	108.32	0.72	0.55	0.07	83.82		86.18		88.53	88.00	87.45	90.82
01/29/67		131.54	124.63	115.30	108.31	1.07	0.82	0.28	83.91		86.28		88.84	88.14	87.56	90.92
02/05/67		131.50	124.57	115.25	108.23	0.80	0.55	0.08	83.97		86.35		88.72	88.24	87.63	91.00
02/12/67		131.70	124.80	115.41	108.41	0.84	0.58	4.40	84.13		86.52		88.91	88.49	87.80	91.17
02/19/67		131.82	124.97	115.73	108.61	1.01	0.70	1.18	84.30		86.71		89.13	88.77	88.00	91.38
02/26/67		131.80	124.88	115.69	108.53	1.12	0.77	0.45	84.15		86.54		88.94	88.53	87.83	91.20
03/05/67		131.74	124.81	115.67	108.49	1.01	0.74	0.00	84.24		86.65		89.06	88.24	87.94	91.32
03/12/67		131.72	124.79	115.68	108.49	1.32	0.98	0.55	84.15		86.54		88.94	88.53	87.83	91.20
03/19/67		131.84	124.64	115.52	108.41	1.70	1.24	0.00	83.98		86.33		88.70	88.22	87.61	90.98
03/26/67		131.56	124.53	115.41	108.39	1.51	1.10	0.00	83.83		86.29		88.68	88.16	87.57	90.94
04/02/67		131.47	124.47	115.34	108.28	1.44	1.21	0.45	83.70		86.03		88.37	87.79	87.31	90.88
04/09/67		131.42	124.35	115.23	108.18	1.91	1.80	0.00	83.71		86.05		88.39	87.81	87.33	90.88
04/16/67		131.38	124.25	115.12	108.09	1.82	1.38	0.03	83.52		85.84		88.15	87.50	87.11	90.48
04/23/67		131.26	124.18	114.95	105.97	2.40	2.02	0.05	83.43		85.74		88.04	87.38	87.01	90.35
04/30/67		131.22	124.09	115.23	105.94	2.15	1.78	1.83	83.21		85.49		87.76	87.19	86.75	90.09
05/07/67		131.38	124.20	115.12	105.91	1.67	1.37	2.14	83.28		85.54		87.82	87.07	86.81	90.14
05/14/67		131.28	124.10	114.95	105.83	2.72	2.23	0.00	83.15		85.41		87.68	86.89	86.68	90.01
05/21/67		131.14	124.08	114.75	105.67	2.59	2.12	0.00	82.94		85.18		87.42	86.55	86.44	89.77
05/28/67		131.10	124.09	114.73	105.87	1.84	1.51	4.00	82.80		85.14		87.37	86.49	86.40	89.72
06/04/67		131.22	124.05	114.32	105.84	1.97	1.67	0.63	82.88		85.12		87.35	86.48	86.38	89.70
06/11/67		131.25	124.08	114.33	105.81	1.87	1.42	0.83	82.88		85.11		87.34	86.45	86.37	89.69
06/18/67		131.28	124.08	114.49	105.83	1.74	1.48	1.28	82.83		85.05		87.28	86.37	86.31	89.63
06/25/67		131.42	124.28	114.50	106.01	1.42	1.21	3.09	82.80		85.14		87.37	86.49	86.40	89.72
07/02/67		131.58	124.52	114.28	108.14	1.32	1.20	5.73	83.00		85.25		87.50	86.66	86.51	89.84
07/09/67		131.58	124.49	114.20	108.21	1.67	1.52	2.36	83.04		85.30		87.55	86.71	86.56	89.89
07/16/67		131.48	124.40	114.10	108.17	1.98	1.80	2.85	83.13		85.40		87.68	86.87	86.68	89.89
07/23/67		131.48	124.44	114.08	108.13	1.35	1.23	0.95	83.08		85.34		87.60	86.79	86.61	89.84
07/30/67		131.52	124.55	114.15	108.09	1.33	1.21	0.64	83.13		85.40		87.68	86.87	86.68	89.89
08/06/67		131.68	124.88	114.24	108.11	1.34	1.22	1.35	83.18		85.45		87.72	86.94	86.72	90.05
08/13/67		131.80	124.67	114.47	108.09	1.10	1.00	4.30	83.29		85.58		87.86	87.13	86.84	90.18

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond Lake (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
08/20/67		131.84	124.89	114.54	108.28	1.57	1.43	0.12	83.37		85.88		87.86	87.28	86.83	80.28
08/27/67		131.80	124.87	114.58	108.26	1.74	1.58	0.29	83.67		86.01		88.34	87.75	87.28	80.84
09/03/67		131.78	124.78	114.61	108.21	1.68	1.43	1.53	83.77		86.11		88.48	87.90	87.39	80.75
09/10/67		131.78	124.78	114.61	108.07	1.33	1.13	0.40	83.78		86.12		88.47	87.42	87.40	80.78
09/17/67		131.82	124.84	114.51	105.85	1.41	1.20	0.01	83.89		86.02		88.38	87.77	87.30	80.65
09/24/67		131.52	124.58	114.37	105.85	1.58	1.33	0.00	83.58		85.91		88.23	87.61	87.18	80.53
10/01/67		131.52	124.54	114.28	105.77	1.58	1.20	0.94	83.54		85.88		88.18	87.54	87.14	80.48
10/08/67		131.48	124.49	114.17	105.61	1.31	1.00	0.00	83.50		85.82		88.13	87.48	87.09	80.44
10/15/67		131.38	124.44	114.08	105.53	1.24	0.94	0.69	83.35		85.64		87.93	87.22	86.91	80.25
10/22/67		131.32	124.31	113.88	105.47	1.27	0.97	0.44	83.28		85.54		87.82	87.07	86.81	80.14
10/29/67		131.24	124.24	113.81	105.37	1.20	0.91	0.07	83.04		85.30		87.55	86.72	86.58	80.09
11/05/67		131.22	124.20	113.48	105.34	1.07	0.78	0.70	83.35		85.84		87.83	86.47	86.91	80.25
11/12/67		131.12	124.02	113.33	105.14	1.08	0.75	0.00	82.85		85.07		87.30	86.40	86.33	80.05
11/19/67		131.18	123.95	113.14	105.09	0.92	0.65	0.00	82.81		84.81		87.01	86.02	86.07	80.38
11/26/67		131.20	123.91	113.00	105.05	0.98	0.70	0.00	82.70		84.91		87.12	86.18	86.17	80.48
12/03/67		131.24	123.83	112.78	104.97	1.05	0.87	0.08	82.37		84.53		86.70	85.82	85.78	80.09
12/10/67		131.29	123.85	112.91	104.91	0.39	0.32	0.14	82.48		84.67		86.85	85.81	85.92	80.23
12/17/67		131.34	124.10	112.80	105.11	0.61	0.51	4.01	82.52		84.70		86.89	85.87	85.88	80.27
12/24/67		131.30	124.14	112.60	105.15	0.88	0.73	0.10	82.42		84.59		86.76	85.70	85.84	80.14
12/31/67		131.38	124.18	112.57	105.11	0.52	0.40	1.05	82.50		84.69		86.87	85.84	85.84	80.25
01/07/68		131.32	124.17	112.42	105.07	0.55	0.42	0.12	82.40		84.57		86.74	85.53	85.82	80.12
01/14/68		131.32	124.11	112.29	104.99	0.52	0.40	0.10	82.34		84.51		86.67	85.58	85.78	80.08
01/21/68		131.28	124.07	112.15	104.95	0.72	0.55	0.00	82.18		84.33		86.47	85.32	85.57	80.07
01/28/68		131.22	124.02	112.01	104.91	0.60	0.48	0.19	82.01		84.13		86.25	85.04	85.37	80.08
02/04/68		131.20	124.00	111.82	104.85	0.80	0.82	0.03	82.03		84.15		86.27	85.08	85.39	80.08
02/11/68		131.18	123.97	111.88	104.75	0.82	0.57	0.39	82.00		84.12		86.24	85.02	85.38	80.05
02/18/68		131.14	123.94	111.55	104.69	1.01	0.70	0.01	81.80		84.00		86.11	84.85	85.25	80.53
02/25/68		131.20	123.91	111.42	104.71	0.68	0.48	1.01	81.73		83.82		85.90	84.58	85.05	80.33
03/03/68		131.14	123.89	111.23	104.61	1.18	0.86	0.40	81.84		83.71		85.78	84.62	84.84	80.22
03/10/68		131.22	123.91	111.20	104.61	1.08	0.77	1.09	81.88		83.78		85.84	84.50	85.00	80.27
03/17/68		131.28	123.97	111.09	104.61	1.03	0.75	0.43	81.48		83.53		85.58	84.17	84.78	80.03
03/24/68		131.18	123.88	110.88	104.53	1.70	1.24	0.00	81.50		83.58		85.61	84.20	84.79	80.08
03/31/68		131.14	123.82	110.70	104.38	1.44	1.21	0.00	81.36		83.38		85.43	83.97	84.62	80.08
04/07/68		131.10	123.77	110.53	104.41	1.39	1.17	0.28	81.31		83.34		85.37	83.89	84.57	80.83
04/14/68		131.02	123.67	110.32	104.31	1.77	1.49	0.02	81.28		83.29		85.31	83.82	84.52	80.77
04/21/68		130.88	123.53	110.08	104.18	1.88	1.86	0.00	82.80		82.80		84.88	83.28	84.12	80.37
04/28/68		130.88	123.38	109.82	104.05	1.98	1.81	0.00	80.84		82.58		84.52	82.79	83.79	80.03
05/05/68		130.82	123.28	109.62	103.95	2.33	1.91	0.53	80.84		82.59		84.53	83.20	83.80	80.03
05/12/68		130.80	123.24	109.41	103.89	1.78	1.46	1.08	80.45		82.37		84.29	82.49	83.58	80.81
05/19/68		130.80	123.24	109.29	103.82	2.16	1.77	0.83	80.26		82.16		84.05	82.18	83.38	80.56
05/26/68		130.74	123.08	109.20	103.77	1.87	1.53	2.25	80.19		82.08		83.96	82.08	83.28	80.50
06/02/68		130.78	123.20	109.08	103.84	1.95	1.86	2.01	80.32		82.22		84.12	82.27	83.43	80.65
06/09/68		130.88	123.32	109.08	103.89	1.51	1.28	2.03	80.25		82.15		84.04	82.17	83.38	80.57
06/16/68		131.02	123.33	108.88	103.85	1.91	1.82	1.00	80.29		82.18		84.08	82.22	83.39	80.61
06/23/68		130.98	123.34	108.68	103.75	1.56	1.33	1.09	80.41		82.33		84.24	82.43	83.54	80.78
06/30/68		131.01	123.38	108.48	103.67	1.98	1.78	1.18	80.17		82.08		83.94	82.04	83.28	80.48
07/07/68		131.04	123.38	108.40	103.67	1.35	1.23	3.40	80.33		82.24		84.14	82.22	83.45	80.67
07/14/68		131.08	123.40	108.38	103.79	1.04	0.95	2.78	80.33		82.24		84.14	82.30	83.45	80.67
07/21/68		131.18	123.42	108.31	103.80	1.68	1.53	1.43	80.33		82.23		84.13	82.28	83.44	80.68
07/28/68		131.10	123.51	108.18	103.72	1.83	1.87	1.35	80.27		82.16		84.08	82.18	83.37	80.59
08/04/68		131.10	123.60	107.98	103.63	1.82	1.88	1.48	80.43		82.34		84.28	82.45	83.58	80.78
08/11/68		131.08	123.68	107.81	103.59	1.64	1.49	0.08	80.58		82.52		84.46	82.71	83.74	80.97
08/18/68		131.10	123.77	107.85	103.61	2.14	1.95	0.28	80.75		82.70		84.88	82.87	83.92	80.18
08/25/68		131.08	123.86	107.42	103.45	1.68	1.51	0.04	80.91		82.88		84.88	83.23	84.10	80.35
09/01/68		131.82	123.95	108.07	104.17	1.28	1.07	8.19	81.08		83.08		85.08	83.49	84.29	80.54
09/08/68		131.88	124.04	108.21	104.11	1.58	1.34	1.29	81.23		83.25		85.27	83.78	84.48	80.73
09/15/68		131.82	124.13	108.33	104.05	1.12	0.85	3.94	81.39		83.43		85.47	84.02	84.68	80.92
09/22/68		131.88	124.21	108.47	103.95	1.59	1.35	0.35	81.45		83.50		85.55	83.29	84.73	80.00
09/29/68		131.82	124.30	108.55	103.87	1.40	1.08	0.08	81.37		83.40		85.44	83.98	84.83	80.89
10/06/68		131.66	124.39	108.49	103.75	1.41	1.07	0.00	81.37		83.40		85.44	83.98	84.83	80.89
10/13/68		131.72	124.42	108.65	103.81	1.13	0.86	1.30	81.48		83.53		85.58	84.17	84.78	80.03
10/20/68		131.88	124.46	108.01	104.07	0.77	0.59	3.49	81.84		83.71		85.78	84.43	84.94	80.22
10/27/68		131.84	124.49	108.03	103.95	1.08	0.82	0.18	81.84		83.72		85.78	83.28	84.85	80.23
11/03/68		131.75	124.52	108.88	103.83	0.87	0.69	0.00	81.72		83.80		85.88	83.44	85.04	80.31
11/10/68		131.71	124.49	108.08	103.89	0.92	0.85	1.92	81.72		83.80		85.88	84.56	85.04	80.31
11/17/68		131.67	124.46	108.08	103.81	0.73	0.52	0.59	81.80		83.86		85.73	84.36	84.80	80.17
11/24/68		131.63	124.43	108.08	103.75	0.75	0.53	0.24	81.58		83.85		85.71	84.33	84.88	80.15
12/01/68		131.59	124.39	108.08	103.71	0.79	0.66	0.00	81.48		83.53		85.58	84.17	84.78	80.03
12/08/68		131.56	124.36	108.02	103.68	0.85	0.78	0.21	81.37		83.40		85.44	83.88	84.83	80.89
12/15/68		131.50	124.33	108.82	103.58	0.70	0.58	0.17	81.48		83.51		85.58	84.14	84.74	80.01

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
12/22/68		131.42	124.28	108.68	103.47	0.74	0.61	0.00	81.41		83.46		85.50	84.08	84.68	87.85
12/29/68		131.48	124.25	108.79	103.47	0.68	0.52	0.74	81.29		83.31		85.34	83.85	84.54	87.80
01/05/69		131.42	124.21	108.81	103.43	0.54	0.42	0.91	81.28		83.29		85.31	83.16	84.52	87.77
01/12/69		131.40	124.18	108.78	103.41	0.61	0.47	0.43	81.37		83.41		85.45	84.00	84.84	87.80
01/19/69		131.40	124.14	108.69	103.38	0.65	0.50	0.03	81.33		83.36		85.39	83.92	84.59	87.85
01/26/69		131.38	124.10	108.61	103.35	0.57	0.44	0.14	81.14		83.14		85.15	83.61	84.37	87.82
02/02/69		131.38	124.06	108.58	103.31	0.78	0.54	0.00	81.01		83.00		84.89	83.40	84.22	87.47
02/09/69		131.40	124.02	108.50	103.37	0.81	0.56	1.84	81.07		83.07		85.07	83.50	84.30	87.55
02/16/69		131.56	124.07	108.65	103.49	0.77	0.53	2.43	81.25		83.27		85.29	83.79	84.50	87.75
02/23/69		131.52	124.12	108.59	103.45	0.67	0.48	0.32	81.12		83.13		85.13	83.58	84.35	87.60
03/02/69		131.48	124.17	108.52	103.36	0.95	0.69	0.01	81.14		83.15		85.16	82.85	84.38	87.63
03/09/69		131.52	124.22	108.52	103.41	0.80	0.58	1.42	81.18		83.20		85.21	83.69	84.42	87.68
03/16/69		131.58	124.27	108.61	103.41	1.00	0.73	1.48	81.08		83.08		85.08	83.52	84.31	87.55
03/23/69		131.64	124.32	108.62	103.47	0.91	0.66	1.21	81.44		83.48		85.53	84.10	84.72	87.98
03/30/69		131.68	124.31	108.78	103.53	1.47	1.23	1.32	81.37		83.40		85.44	83.88	84.83	87.89
04/06/69		131.60	124.30	108.75	103.47	1.62	1.36	0.00	81.37		83.41		85.45	84.00	84.84	87.90
04/13/69		131.52	124.20	108.63	103.41	1.70	1.43	0.00	81.30		83.33		85.36	83.88	84.56	87.82
04/20/69		131.48	124.18	108.60	103.27	1.41	1.18	0.91	81.26		83.28		85.30	83.80	84.51	87.78
04/27/69		131.40	124.04	108.39	103.13	1.85	1.52	0.00	81.17		83.18		85.19	83.68	84.41	87.68
05/04/69		131.82	124.18	108.38	103.07	1.41	1.18	0.67	80.97		82.95		84.94	82.65	84.18	87.42
05/11/69		131.52	124.18	108.28	103.08	1.91	1.57	0.00	80.77		82.73		84.89	83.01	83.95	87.19
05/18/69		131.54	124.20	108.35	102.96	1.80	1.31	1.81	80.72		82.88		84.83	82.93	83.89	87.13
05/25/69		131.58	124.32	108.28	103.03	1.48	1.20	0.47	80.82		82.56		84.50	82.78	83.78	87.01
06/01/69		131.52	124.22	108.15	102.91	1.68	1.43	0.02	80.61		82.55		84.49	82.75	83.77	87.00
06/08/69		131.48	124.20	108.01	102.91	2.00	1.70	1.55	80.52		82.45		84.38	82.61	83.67	86.89
06/15/69		131.42	124.12	107.86	102.86	1.66	1.41	0.74	80.51		82.43		84.38	82.58	83.65	86.87
06/22/69		131.44	124.12	107.69	102.73	1.81	1.54	0.46	80.35		82.25		84.18	82.32	83.47	86.68
06/29/69		131.40	124.10	107.49	102.57	2.08	1.89	0.02	80.09		81.97		83.84	81.58	83.17	86.38
07/06/69		131.32	124.02	107.32	102.47	1.97	1.79	0.28	80.01		81.87		83.73	81.78	83.07	86.28
07/13/69		131.22	124.00	107.21	102.46	1.67	1.52	1.51	79.86		81.81		83.67	81.69	83.02	86.22
07/20/69		131.20	124.00	107.10	102.49	1.58	1.44	2.89	79.84		81.79		83.64	81.65	82.99	86.19
07/27/69		131.30	124.10	107.20	102.59	1.51	1.37	1.12	80.05		81.81		83.78	81.83	83.12	86.33
08/03/69		131.52	124.20	107.28	102.69	1.37	1.25	1.58	80.12		81.99		83.87	81.85	83.20	86.41
08/10/69		131.54	124.44	107.19	102.71	1.20	1.09	3.39	80.19		82.08		83.88	82.08	83.28	86.50
08/17/69		131.56	124.40	107.27	102.71	1.22	1.11	1.36	80.23		82.12		84.01	82.13	83.33	86.54
08/24/69		131.68	124.54	107.40	102.83	1.27	1.18	1.70	80.51		82.43		84.38	82.58	83.65	86.87
08/31/69		131.58	124.44	107.47	102.77	1.23	1.05	1.20	80.59		82.52		84.46	82.07	83.74	86.97
09/07/69		131.62	124.45	107.34	102.86	1.31	1.11	2.51	80.72		82.68		84.63	82.93	83.89	87.13
09/14/69		131.52	124.42	107.44	102.77	1.43	1.22	0.71	80.69		82.64		84.59	82.88	83.86	87.09
09/21/69		131.54	124.40	107.39	102.89	1.05	0.99	1.85	80.67		82.61		84.58	82.84	83.83	87.06
09/28/69		131.52	124.44	107.40	102.91	1.21	0.92	1.89	81.06		83.06		85.06	83.48	84.29	87.54
10/05/69		131.65	125.00	107.93	103.31	0.58	0.44	3.00	81.28		83.29		85.31	83.82	84.52	87.77
10/12/69		131.78	125.00	108.08	103.29	0.91	0.69	0.05	81.51		83.58		85.62	84.22	84.80	88.06
10/19/69		131.92	124.90	108.17	103.21	1.05	0.80	0.13	81.56		83.62		85.68	84.30	84.85	88.12
10/26/69		131.82	124.86	108.29	103.11	0.40	0.30	0.60	81.57		83.64		85.70	84.32	84.87	88.14
11/02/69		132.08	125.10	108.58	103.30	0.68	0.48	1.01	81.80		83.90		85.89	84.70	85.14	88.41
11/09/69		131.92	125.06	108.69	103.21	0.54	0.38	0.31	81.87		83.97		86.07	83.35	85.21	88.49
11/16/69		131.87	125.00	108.80	103.21	0.83	0.59	1.04	81.92		84.02		86.13	84.88	85.28	88.55
11/23/69		131.82	124.88	108.85	103.11	0.65	0.46	0.00	81.86		83.98		86.06	84.79	85.20	88.48
11/30/69		131.87	124.92	108.98	103.15	0.75	0.62	1.51	81.90		84.00		86.11	84.85	85.25	88.53
12/07/69		131.92	124.80	108.30	103.10	0.72	0.60	0.84	81.80		83.99		85.88	84.69	85.13	88.41
12/14/69		131.98	125.00	108.38	103.27	0.71	0.59	2.97	82.01		84.13		86.25	85.04	85.37	88.68
12/21/69		131.88	124.98	108.50	103.17	0.58	0.48	0.00	82.01		84.13		86.25	85.04	85.37	88.68
12/28/69		131.98	125.06	108.69	103.27	0.77	0.59	1.93	82.12		84.28		86.39	85.22	85.50	88.79
01/04/70		131.92	125.00	108.88	103.31	0.49	0.38	0.89	82.10		84.23		86.38	84.20	85.47	88.78
01/11/70		132.08	125.18	110.26	103.43	0.53	0.41	2.33	82.25		84.40		86.55	85.43	85.65	88.94
01/18/70		132.18	125.20	110.57	103.55	0.29	0.22	0.65	82.53		84.71		86.80	85.88	85.87	89.27
01/25/70		132.10	125.18	110.79	103.51	0.59	0.45	0.10	82.55		84.74		86.83	85.92	85.99	89.30
02/01/70		132.08	125.10	111.58	103.84	0.70	0.48	0.35	82.50		84.69		86.87	85.84	85.94	89.25
02/08/70		132.68	125.70	111.95	103.77	0.68	0.46	6.47	83.31		85.59		87.88	87.15	86.88	90.20
02/15/70		132.52	125.62	112.67	103.90	0.81	0.56	0.02	83.32		85.61		87.80	87.18	86.88	90.22
02/22/70		132.52	125.68	113.09	104.03	0.83	0.57	1.13	83.43		85.74		88.04	87.38	87.01	90.25
03/01/70		132.44	125.54	113.49	104.17	0.82	0.60	0.30	83.63		85.86		88.29	86.42	87.24	90.59
03/08/70		132.42	125.50	114.02	104.35	0.89	0.63	1.64	83.75		86.10		88.44	87.89	87.37	90.73
03/15/70		132.34	125.40	114.32	104.32	1.21	0.88	0.63	83.70		86.03		88.37	87.79	87.31	90.66
03/22/70		132.26	125.28	114.56	104.31	1.08	0.77	0.08	83.79		86.14		88.49	87.94	87.42	90.78
03/29/70		132.70	125.58	115.31	104.67	1.30	1.09	5.22	84.00		86.37		88.75	88.28	87.68	91.02
04/05/70		132.68	125.70	115.61	104.67	1.19	1.00	2.19	84.34		86.76		89.18	88.84	88.05	91.43
04/12/70		132.72	125.68	116.11	104.67	1.46	1.23	0.68	84.44		86.87		89.30	88.99	88.18	91.54
04/19/70		132.48	125.52	116.14	105.06	1.65	1.38	0.00	84.81		87.06		89.52	89.29	88.38	91.75

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
04/28/70		132.32	125.38	118.12	105.08	1.44	1.18	0.11	84.55		86.68		88.44	89.18	88.28	91.68
05/03/70		132.18	125.18	115.98	105.08	1.87	1.37	0.00	84.38		86.78		88.21	88.28	88.08	91.48
05/10/70		132.04	125.02	115.78	105.01	1.87	1.82	0.05	84.18		86.58		88.89	88.55	87.85	91.22
05/17/70		131.82	124.88	115.81	104.88	2.17	1.78	3.25	84.08		86.47		88.88	88.42	87.78	91.13
05/24/70		131.84	124.70	115.84	105.17	1.81	1.32	0.39	84.12		86.51		88.80	88.48	87.79	91.17
05/31/70		132.12	125.10	115.70	105.31	1.28	1.08	3.24	84.05		86.43		88.81	88.38	87.71	91.08
06/07/70		132.00	124.98	115.62	105.25	1.81	1.37	1.11	84.01		86.38		88.78	88.29	87.68	91.03
06/14/70		131.88	124.90	115.45	105.25	1.71	1.45	0.18	83.88		86.22		88.58	88.08	87.50	90.88
06/21/70		131.80	124.84	115.41	105.20	1.69	1.44	0.81	83.75		86.10		88.44	87.88	87.37	90.73
06/28/70		132.14	125.20	115.73	105.57	1.88	1.53	4.83	83.82		86.18		88.53	88.00	87.45	90.82
07/05/70		131.98	125.10	115.88	105.70	1.81	1.47	0.80	83.83		86.29		88.68	88.18	87.57	90.84
07/12/70		132.06	125.18	115.78	105.79	1.41	1.28	2.80	83.88		86.28		88.82	88.11	87.54	90.80
07/19/70		132.00	125.10	115.71	105.83	1.58	1.44	0.10	83.77		86.11		88.48	87.54	87.39	90.75
07/26/70		131.98	125.08	115.61	105.92	1.33	1.21	2.83	83.73		86.07		88.41	87.84	87.35	90.70
08/02/70		131.82	125.08	115.54	105.95	1.58	1.42	0.83	83.68		86.02		88.38	87.77	87.30	90.65
08/09/70		132.18	125.30	115.70	106.18	1.51	1.37	0.21	83.60		86.27		88.83	88.13	87.55	90.81
08/16/70		132.30	125.50	115.78	106.45	0.53	0.48	6.52	83.88		86.29		88.68	88.18	87.57	90.84
08/23/70		132.30	125.58	115.88	106.45	1.53	1.38	1.83	84.13		86.53		88.82	88.50	87.81	91.18
08/30/70		132.22	125.52	115.88	106.41	1.23	1.05	2.44	84.11		86.50		88.88	88.48	87.78	91.18
09/06/70		132.10	125.48	118.08	106.41	1.72	1.48	0.88	84.24		86.65		88.88	88.21	87.84	91.32
09/13/70		132.08	125.44	118.08	106.51	1.25	1.08	0.14	84.31		86.72		89.14	88.78	88.01	91.38
09/20/70		131.98	125.34	116	106.51	1.40	1.19	1.02	84.31		86.72		89.14	88.78	88.01	91.38
09/27/70		131.88	125.18	115.72	106.45	1.11	0.84	0.02	84.24		86.64		89.05	88.67	87.83	91.31
10/04/70		131.74	125.00	115.72	106.29	1.44	1.08	0.00	84.07		86.45		88.84	88.40	87.74	91.11
10/11/70		131.88	124.88	115.40	106.21	1.41	1.07	0.00	84.05		86.43		88.81	88.38	87.71	91.08
10/18/70		131.58	124.88	115.27	106.11	1.37	1.04	0.00	83.91		86.28		88.84	88.14	87.58	90.82
10/25/70		131.82	124.82	115.28	106.18	0.88	0.73	1.32	83.82		86.18		88.53	88.00	87.45	90.82
11/01/70		131.88	124.80	115.19	106.21	0.88	0.82	0.85	83.87		86.01		88.34	87.53	87.28	90.64
11/08/70		131.54	124.70	115.02	105.88	0.80	0.84	0.00	83.50		85.82		88.13	87.48	87.08	90.44
11/15/70		131.50	124.68	114.88	105.84	0.78	0.55	0.12	83.38		85.88		87.88	87.28	86.85	90.30
11/22/70		131.44	124.60	114.81	105.83	0.74	0.53	0.00	83.29		85.58		87.88	87.13	86.84	90.18
11/29/70		131.38	124.52	114.84	105.73	0.88	0.58	0.03	83.04		85.30		87.55	86.72	86.58	89.88
12/06/70		131.40	124.52	114.49	105.68	0.72	0.60	0.00	82.83		85.17		87.41	86.54	86.43	89.78
12/13/70		131.38	124.48	114.39	105.58	0.77	0.84	0.00	82.88		85.11		87.34	86.45	86.37	89.68
12/20/70		131.35	124.48	114.30	105.80	0.80	0.50	0.49	82.80		85.02		87.24	86.32	86.28	89.60
12/27/70		131.40	124.48	114.21	105.58	0.59	0.45	0.30	82.80		85.14		87.37	86.48	86.40	89.72
01/03/71		131.48	124.50	114.18	105.58	0.59	0.45	1.38	82.73		84.85		87.18	86.22	86.20	89.52
01/10/71		131.52	124.68	114.28	105.68	0.29	0.22	1.82	82.78		84.97		87.18	86.42	86.23	89.55
01/17/71		131.52	124.68	114.18	105.68	0.55	0.42	0.18	82.68		84.80		87.11	86.15	86.18	89.47
01/24/71		131.48	124.58	114.07	105.58	0.75	0.58	0.00	82.57		84.77		86.88	85.88	86.02	89.33
01/31/71		131.42	124.54	113.98	105.51	0.84	0.65	0.80	82.57		84.77		86.88	85.88	86.02	89.33
02/07/71		131.48	124.58	114.13	105.77	0.85	0.58	1.22	82.58		84.75		86.84	85.83	86.00	89.31
02/14/71		131.58	124.78	114.10	105.88	0.84	0.85	1.81	82.57		84.78		86.85	85.84	86.01	89.32
02/21/71		131.80	124.70	114.12	105.81	0.84	0.58	0.00	82.65		84.85		87.05	86.07	86.10	89.42
02/28/71		131.58	124.72	114.12	105.73	0.85	0.88	0.82	82.65		84.88		87.08	86.48	86.11	89.43
03/07/71		131.58	124.70	114.09	105.88	1.05	0.77	0.74	82.55		84.74		86.83	85.82	85.88	89.30
03/14/71		131.54	124.68	114.00	105.84	0.80	0.68	0.25	82.60		84.78		86.88	86.00	86.05	89.38
03/21/71		131.44	124.52	113.81	105.53	1.41	1.03	0.28	82.54		84.72		86.81	85.88	85.88	89.28
03/28/71		131.80	124.84	113.88	105.51	1.23	1.03	0.70	82.50		84.68		86.88	85.83	85.83	89.24
04/04/71		131.52	124.60	114.01	105.41	1.35	1.13	0.10	82.58		84.78		86.87	85.87	86.03	89.34
04/11/71		131.52	124.58	113.82	105.48	1.50	1.28	2.38	82.38		84.54		86.71	85.83	85.78	89.10
04/18/71		131.50	124.50	113.82	105.38	1.81	1.35	0.00	82.38		84.55		86.72	85.85	85.80	89.10
04/25/71		131.52	124.48	113.72	105.33	1.71	1.40	0.18	82.37		84.53		86.70	85.82	85.78	89.08
05/02/71		131.48	124.48	113.68	105.28	1.47	1.21	0.48	82.28		84.44		86.58	85.80	85.88	88.98
05/09/71		131.42	124.30	113.51	105.13	1.81	1.48	0.43	82.05		84.18		86.30	85.10	85.42	88.71
05/16/71		131.40	124.38	113.38	105.18	1.47	1.21	1.18	82.02		84.14		86.28	85.05	85.38	88.67
05/23/71		131.32	124.28	113.18	105.01	1.84	1.58	0.02	81.78		83.85		85.84	84.83	85.08	88.37
05/30/71		131.38	124.30	113.00	105.08	1.81	1.54	2.08	81.84		83.71		85.78	84.43	84.84	88.22
06/06/71		131.38	124.18	112.78	104.88	1.82	1.55	0.20	81.41		83.45		85.48	84.05	84.88	87.94
06/13/71		131.42	124.20	112.68	104.88	1.50	1.28	0.38	81.38		83.42		85.48	84.01	84.85	87.81
06/20/71		131.44	124.28	112.58	104.87	1.78	1.52	1.45	81.33		83.38		85.38	83.82	84.58	87.85
06/27/71		131.48	124.24	112.34	104.88	1.88	1.51	1.48	81.17		83.18		85.18	84.37	84.41	87.68
07/04/71		131.32	124.20	112.27	104.78	1.34	1.22	0.87	81.18		83.20		85.21	83.88	84.42	87.68
07/11/71		131.40	124.38	112.25	104.83	1.82	1.47	1.83	81.18		83.20		85.21	83.88	84.42	87.68
07/18/71		131.42	124.42	112.23	104.74	1.72	1.57	1.01	81.18		83.17		85.18	83.85	84.40	87.65
07/25/71		131.48	124.40	112.10	104.78	1.18	1.08	1.25	81.21		83.22		85.24	83.72	84.45	87.71
08/01/71		131.48	124.48	111.82	104.78	1.47	1.34	2.88	81.12		83.13		85.13	83.58	84.35	87.60
08/08/71		131.42	124.40	111.88	104.71	1.58	1.45	1.87	81.07		83.07		85.07	83.50	84.30	87.55
08/15/71		131.80	124.60	112.11	104.71	1.17	1.08	3.02	81.18		83.17		85.18	83.85	84.40	87.65
08/22/71		131.82	124.84	112.13	104.78	1.32	1.20	3.80	81.22		83.23		85.25	83.74	84.48	87.72

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brookdym Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brookdym Floridan (ft. NGVD)	Brookdym Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
08/29/71		131.72	124.88	112.17	104.84	1.18	1.00	1.52	81.30		83.33		85.38	84.54	84.58	87.82
09/05/71		131.74	124.84	112.21	104.88	1.34	1.14	1.25	81.29		83.31		85.34	83.85	84.54	87.80
09/12/71		131.88	125.12	112.48	105.07	1.25	1.06	1.88	81.47		83.52		85.57	84.15	84.75	88.02
09/18/71		131.92	125.22	112.87	105.07	1.30	1.11	0.09	81.53		83.58		85.64	84.24	84.82	88.08
09/28/71		131.88	125.08	112.84	105.07	1.38	1.03	0.44	81.52		83.57		85.63	84.23	84.81	88.07
10/03/71		131.88	124.88	112.82	104.81	1.39	1.08	0.00	81.28		83.28		85.30	83.80	84.51	87.78
10/10/71		131.82	124.88	112.80	104.88	1.30	0.99	1.89	81.50		83.58		85.61	84.20	84.79	88.08
10/17/71		131.82	124.98	112.85	104.91	0.73	0.55	1.32	81.46		83.51		85.58	84.14	84.74	88.01
10/24/71		131.78	124.88	112.80	104.87	0.99	0.75	0.74	81.53		83.58		85.64	84.24	84.82	88.08
10/31/71		131.80	124.88	112.52	104.78	0.75	0.53	0.51	81.48		83.51		85.58	84.08	84.74	88.01
11/07/71		131.70	124.88	112.48	104.71	1.23	0.87	0.32	81.41		83.45		85.49	84.05	84.68	87.94
11/14/71		131.58	124.80	112.32	104.61	0.81	0.58	0.09	81.32		83.35		85.38	83.91	84.58	87.84
11/21/71		131.52	124.72	112.20	104.51	0.85	0.60	0.12	81.38		83.42		85.46	84.01	84.65	87.91
11/28/71		131.44	124.84	112.28	104.48	0.58	0.48	0.08	81.33		83.38		85.39	83.92	84.59	87.85
12/05/71		131.72	124.95	112.52	104.73	0.73	0.81	3.99	81.35		83.38		85.42	83.98	84.62	87.85
12/12/71		131.78	124.99	112.57	104.81	0.39	0.32	0.08	81.49		83.54		85.59	84.18	84.77	88.04
12/19/71		131.68	124.92	112.62	104.71	0.81	0.67	0.02	81.49		83.55		85.60	84.18	84.78	88.05
12/26/71		131.78	125.04	112.70	104.78	0.54	0.42	0.64	81.54		83.60		85.68	84.27	84.83	88.10
01/02/72		131.78	124.92	112.71	104.78	0.72	0.55	0.23	81.73		83.82		85.80	85.54	85.05	88.33
01/09/72		131.68	124.88	112.67	104.89	0.82	0.48	0.60	81.80		83.89		85.88	84.88	85.13	88.41
01/16/72		131.71	124.88	112.80	104.79	0.88	0.51	1.73	81.82		83.91		86.01	84.72	85.15	88.43
01/23/72		131.75	124.80	112.89	104.84	0.60	0.48	1.48	81.82		84.03		86.14	84.88	85.27	88.58
01/30/72		131.78	124.80	112.89	104.81	0.89	0.48	0.88	82.07		84.20		86.33	85.14	85.45	88.74
02/06/72		131.82	124.92	113.01	104.79	0.82	0.43	1.20	81.89		84.10		86.22	85.00	85.35	88.83
02/13/72		131.88	124.92	113.08	104.83	0.87	0.48	0.78	82.34		84.50		86.68	85.57	85.75	89.05
02/20/72		131.88	124.92	113.17	104.81	0.98	0.68	1.35	82.30		84.45		86.81	85.50	85.70	89.00
02/27/72		131.82	124.94	113.19	104.77	1.03	0.75	0.08	82.42		84.58		86.78	85.70	85.84	89.14
03/05/72		131.90	125.03	113.33	104.79	1.30	0.95	2.07	82.46		84.84		86.82	85.87	85.89	89.20
03/12/72		131.82	125.00	113.31	104.77	1.34	0.98	0.00	82.38		84.54		86.71	85.83	85.78	89.10
03/19/72		131.78	124.82	113.30	104.71	1.38	1.01	0.18	82.38		84.55		86.72	85.85	85.80	89.10
03/26/72		131.68	124.77	113.20	104.59	1.70	1.43	0.01	82.43		84.81		86.78	85.72	85.88	89.16
04/02/72		131.78	125.00	113.61	104.80	1.20	1.01	5.27	82.81		84.81		87.01	86.02	86.07	89.38
04/09/72		131.87	125.00	113.61	104.81	1.31	1.10	0.05	82.51		84.70		86.88	85.85	85.85	89.28
04/16/72		131.84	124.93	113.68	104.73	1.80	1.51	0.00	82.57		84.77		86.88	85.88	86.02	89.33
04/23/72		131.82	124.85	113.70	104.63	1.91	1.57	0.79	82.81		84.80		87.00	86.01	86.08	89.37
04/30/72		131.78	124.84	113.83	104.67	1.79	1.47	2.05	82.38		84.54		86.71	86.02	85.79	89.10
05/07/72		131.70	124.78	113.58	104.58	1.88	1.38	0.02	82.27		84.43		86.58	85.48	85.67	88.97
05/14/72		131.88	125.02	113.93	104.81	1.42	1.18	4.55	82.41		84.58		86.75	85.88	85.83	89.13
05/21/72		131.88	124.80	113.98	104.78	1.53	1.25	1.11	82.45		84.62		86.80	85.75	85.88	89.18
05/28/72		131.88	124.98	114.57	105.16	1.80	1.38	2.21	82.84		84.84		87.04	86.08	86.09	89.41
06/04/72		132.10	125.30	114.66	105.09	1.57	1.33	1.30	82.81		84.81		87.01	86.02	86.07	89.38
06/11/72		132.02	125.12	114.89	104.99	1.78	1.51	0.00	82.58		84.78		86.87	85.87	86.03	89.34
06/18/72		131.82	124.98	114.71	104.91	1.73	1.47	0.80	82.87		85.10		87.33	86.44	86.38	89.68
06/25/72		132.28	125.50	115.39	105.35	1.89	1.54	9.14	83.03		85.28		87.53	86.70	86.54	89.87
07/02/72		132.20	125.44	115.59	105.38	1.75	1.59	0.28	83.19		85.47		87.74	86.87	86.73	90.07
07/09/72		132.12	125.38	115.70	105.29	2.05	1.87	0.72	83.24		85.52		87.80	87.28	86.79	90.13
07/16/72		132.08	125.24	115.75	105.23	1.85	1.50	0.21	83.21		85.49		87.78	87.00	86.75	90.09
07/23/72		131.82	125.20	115.59	105.17	1.59	1.45	0.28	83.21		85.49		87.78	87.00	86.75	90.09
07/30/72		131.82	125.08	115.73	105.07	1.82	1.68	1.83	82.88		85.23		87.47	86.62	86.49	89.81
08/06/72		131.82	125.00	115.53	105.08	1.85	1.50	1.78	82.83		85.05		87.28	86.37	86.31	89.83
08/13/72		131.82	125.04	115.50	105.01	1.28	1.18	0.12	82.85		84.88		87.08	86.09	86.11	89.83
08/20/72		131.72	125.10	115.59	105.07	1.89	1.54	0.15	82.73		84.85		87.18	86.22	86.20	89.82
08/27/72		132.37	125.74	116.43	105.85	1.21	1.03	10.02	83.41		85.71		88.01	87.32	86.88	90.32
09/03/72		132.32	125.60	116.58	105.95	1.48	1.28	1.05	83.59		85.82		88.24	85.89	87.19	90.54
09/10/72		132.18	125.89	116.44	105.97	1.38	1.18	0.16	83.58		85.88		88.20	87.57	87.15	90.50
09/17/72		132.09	125.84	116.34	105.91	1.55	1.32	0.02	83.61		85.83		88.28	87.84	87.21	90.58
09/24/72		132.00	125.38	116.20	105.89	1.55	1.18	0.17	83.51		85.83		88.14	87.49	87.10	90.45
10/01/72		131.82	125.08	116.05	105.89	1.34	1.02	0.78	83.61		85.83		88.28	87.84	87.21	90.58
10/08/72		131.80	124.98	115.78	105.82	1.28	0.98	0.32	83.82		85.84		88.15	87.50	87.11	90.48
10/15/72		131.72	124.80	115.88	105.77	1.11	0.84	0.04	83.28		85.57		87.85	87.11	86.83	90.17
10/22/72		131.84	124.88	115.49	105.68	1.08	0.83	0.00	83.17		85.44		87.71	86.83	86.71	90.04
10/29/72		131.82	124.74	115.40	105.63	1.03	0.73	0.63	83.01		85.28		87.51	87.58	86.52	89.85
11/05/72		131.80	124.82	115.38	105.81	0.93	0.88	0.18	83.12		85.38		87.84	86.84	86.87	89.87
11/12/72		131.72	124.92	115.42	105.81	0.71	0.50	2.21	83.18		85.45		87.72	86.84	86.72	90.05
11/19/72		131.70	124.82	115.43	105.81	0.77	0.55	1.83	83.18		85.43		87.70	86.82	86.70	90.03
11/26/72		131.82	125.02	115.53	105.90	0.80	0.50	2.05	83.29		85.58		87.88	87.13	86.84	90.18
12/03/72		131.88	125.10	115.53	105.97	0.41	0.34	1.38	83.17		85.44		87.71	86.83	86.71	90.04
12/10/72		131.84	125.10	115.56	105.99	0.45	0.37	0.02	83.12		85.38		87.84	86.84	86.84	89.87
12/17/72		131.82	125.08	115.60	105.85	0.83	0.77	1.02	83.19		85.47		87.74	86.87	86.73	90.07
12/24/72		132.02	125.10	115.83	106.21	0.44	0.34	2.78	83.23		85.50		87.78	87.02	86.77	90.11

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
12/31/72		131.92	125.10	115.72	106.17	0.60	0.48	0.19	83.27		85.56		87.84	87.57	86.82	80.16
01/07/73		131.92	125.08	115.80	106.11	0.57	0.44	0.12	83.25		85.53		87.81	87.08	86.80	80.14
01/14/73		131.90	125.08	115.89	106.20	0.37	0.28	1.22	83.25		85.53		87.81	87.08	86.80	80.14
01/21/73		131.92	125.12	115.73	106.27	0.75	0.58	0.00	83.27		85.56		87.84	87.10	86.82	80.16
01/28/73		131.97	125.18	115.83	106.31	0.67	0.48	2.82	83.29		85.58		87.86	87.13	86.84	80.18
02/04/73		132.02	125.22	115.85	106.37	0.74	0.51	1.59	83.44		85.75		88.05	87.37	87.02	80.38
02/11/73		132.02	125.18	115.90	106.41	0.70	0.48	1.63	83.75		86.10		88.44	87.88	87.37	80.73
02/18/73		131.97	125.18	115.86	106.43	0.88	0.68	1.08	83.65		85.88		88.31	87.71	87.25	80.61
02/25/73		131.92	125.18	115.74	106.39	0.88	0.64	0.03	83.54		85.86		88.18	87.54	87.14	80.48
03/04/73		131.87	125.08	115.70	106.36	1.10	0.80	0.02	83.45		85.75		88.06	87.62	87.03	80.37
03/11/73		132.02	125.10	115.84	106.38	0.91	0.68	2.09	83.58		85.88		88.20	87.57	87.15	80.50
03/18/73		131.92	125.04	115.85	106.43	1.57	1.15	0.12	83.81		85.93		88.26	87.64	87.21	80.58
03/25/73		131.92	125.18	115.81	106.58	1.41	1.18	2.38	83.73		86.07		88.41	87.84	87.35	80.70
04/01/73		132.12	125.34	116.17	106.76	1.03	0.87	2.85	84.09		86.48		88.87	88.44	87.77	81.14
04/08/73		132.36	125.54	116.38	106.91	1.51	1.27	3.97	84.19		86.59		88.99	88.59	87.87	81.25
04/15/73		132.22	125.41	116.28	106.78	1.58	1.33	0.00	84.16		86.56		88.96	88.55	87.85	81.22
04/22/73		132.12	125.27	116.13	106.65	1.74	1.43	0.00	84.21		86.62		89.02	88.63	87.80	81.28
04/29/73		132.00	125.10	116	106.58	1.71	1.40	0.47	84.16		86.56		88.96	88.54	87.85	81.22
05/06/73		131.87	125.00	115.85	106.45	1.71	1.40	0.00	84.14		86.54		88.83	88.51	87.82	81.19
05/13/73		131.90	125.00	115.73	106.37	2.14	1.75	1.29	84.15		86.54		88.94	88.53	87.83	81.20
05/20/73		131.92	125.00	115.83	106.21	1.71	1.40	0.00	83.85		86.20		88.56	88.03	87.48	80.84
05/27/73		131.95	124.99	115.85	106.48	2.11	1.79	1.62	83.94		86.31		88.68	88.19	87.59	80.88
06/03/73		131.97	125.04	115.75	106.58	1.75	1.49	1.08	83.81		86.18		88.51	87.97	87.44	80.80
06/10/73		131.94	125.00	115.79	106.49	2.01	1.71	0.65	83.75		86.10		88.44	87.88	87.37	80.73
06/17/73		132.15	125.21	115.84	106.68	1.62	1.38	3.14	83.82		86.18		88.53	88.00	87.45	80.82
06/24/73		132.52	125.62	116.21	107.01	1.51	1.37	2.48	84.24		86.65		89.06	88.68	87.84	81.32
07/01/73		132.32	125.70	116.34	106.89	1.38	1.26	0.45	84.30		86.71		89.13	88.86	88.00	81.38
07/08/73		132.29	125.80	116.67	106.91	2.16	1.97	1.52	84.47		86.80		89.34	89.05	88.19	81.58
07/15/73		132.27	125.85	116.64	107.23	1.38	1.28	2.15	84.30		86.71		89.13	88.77	88.00	81.38
07/22/73		132.24	125.80	116.74	107.21	1.59	1.45	0.39	84.52		86.87		89.41	89.14	88.28	81.65
07/29/73		132.22	125.85	116.54	107.15	1.64	1.48	1.43	84.55		87.00		89.45	89.19	88.29	81.69
08/05/73		132.32	125.80	116.55	107.15	1.16	1.08	0.88	84.57		87.02		89.47	89.22	88.31	81.70
08/12/73		132.27	125.60	116.44	107.05	1.55	1.41	0.21	84.66		87.12		89.58	89.36	88.41	81.81
08/19/73		132.20	125.65	116.40	106.99	1.61	1.47	1.61	84.59		87.05		89.50	89.25	88.34	81.73
08/26/73		132.22	125.60	116.50	107.11	1.47	1.25	0.78	84.59		87.05		89.50	89.25	88.34	81.73
09/02/73		132.20	125.65	116.42	106.99	1.25	1.06	2.27	84.56		87.01		89.46	89.03	88.30	81.69
09/09/73		132.18	125.72	116.28	106.88	1.80	1.36	0.15	84.58		87.01		89.46	89.20	88.30	81.69
09/16/73		132.10	125.79	116.36	106.81	1.16	0.99	0.89	84.55		86.99		89.44	89.18	88.29	81.68
09/23/73		132.08	125.48	116.28	106.81	1.15	0.87	0.14	84.55		87.00		89.45	89.19	88.29	81.68
09/30/73		132.06	125.40	116.18	106.83	1.01	0.77	0.64	84.65		87.11		89.57	89.35	88.40	81.80
10/07/73		131.92	125.25	116.08	106.73	1.45	1.10	0.22	84.68		87.15		89.61	89.40	88.44	81.84
10/14/73		131.82	125.08	115.90	106.56	1.36	1.03	0.00	84.55		87.00		89.45	89.19	88.29	81.69
10/21/73		131.75	124.90	115.74	106.35	1.02	0.78	0.26	84.59		87.05		89.50	89.25	88.34	81.73
10/28/73		131.70	124.80	115.56	106.21	0.99	0.70	0.03	84.51		86.98		89.40	89.60	88.25	81.64
11/04/73		131.86	124.75	115.43	106.19	0.92	0.65	0.66	84.37		86.80		89.22	89.89	88.08	81.47
11/11/73		131.82	124.70	115.33	106.08	1.05	0.75	0.02	84.24		86.65		89.08	89.68	87.94	81.32
11/18/73		131.58	124.62	115.22	106.03	0.88	0.70	0.00	83.97		86.34		88.71	88.23	87.62	80.99
11/25/73		131.57	124.62	115.11	105.99	0.87	0.72	0.00	83.70		86.04		88.38	87.80	87.32	80.67
12/02/73		131.56	124.56	115	105.90	0.92	0.76	0.16	83.44		85.75		88.05	87.37	87.02	80.36
12/09/73		131.57	124.68	115.03	105.99	0.67	0.58	1.86	83.39		85.68		87.88	87.28	86.85	80.30
12/16/73		131.72	124.88	115.06	106.07	0.72	0.60	1.85	83.37		85.66		87.86	87.28	86.83	80.28
12/23/73		131.78	124.84	115.16	106.11	0.59	0.45	0.74	83.33		85.62		87.91	87.19	86.89	80.23
12/30/73		131.82	124.80	115.25	106.15	0.52	0.40	0.88	83.41		85.71		88.01	87.32	86.88	80.32
01/06/74		131.80	124.66	115.27	106.17	0.58	0.45	0.01	83.40		85.70		88.00	87.55	86.87	80.31
01/13/74		131.77	124.83	115.25	106.09	0.79	0.61	0.00	83.29		85.58		87.86	87.13	86.84	80.18
01/20/74		131.72	124.74	115.22	106.08	0.63	0.49	0.00	83.30		85.58		87.87	87.14	86.85	80.19
01/27/74		131.68	124.69	115.18	106.01	0.85	0.59	0.00	83.16		85.43		87.70	86.92	86.70	80.03
02/03/74		131.63	124.68	115.13	106.03	0.75	0.52	0.29	83.01		85.28		87.51	86.67	86.52	89.85
02/10/74		131.57	124.58	114.98	105.95	1.18	0.81	0.67	82.97		85.22		87.46	86.61	86.48	89.80
02/17/74		131.51	124.50	114.85	105.87	0.97	0.67	0.00	82.88		85.20		87.44	86.58	86.46	89.79
02/24/74		131.58	124.52	114.80	105.92	0.98	0.72	1.58	82.85		85.08		87.31	86.41	86.34	89.66
03/03/74		131.53	124.40	114.69	105.81	1.07	0.78	0.00	82.77		84.99		87.21	86.69	86.25	89.57
03/10/74		131.49	124.36	114.57	105.78	1.33	0.97	0.00	82.62		84.82		87.02	86.04	86.08	89.39
03/17/74		131.49	124.28	114.41	105.67	1.46	1.07	0.01	82.57		84.77		86.88	85.86	86.02	89.33
03/24/74		131.52	124.40	114.48	105.79	1.15	0.97	2.37	82.53		84.71		86.80	85.88	85.87	89.27
03/31/74		131.59	124.36	114.33	105.75	1.33	1.12	0.01	82.50		84.69		86.86	85.89	85.93	89.24
04/07/74		131.49	124.34	114.21	105.76	1.73	1.45	0.27	82.42		84.59		86.76	85.70	85.84	89.14
04/14/74		131.42	124.24	114.06	105.65	1.89	1.42	0.34	82.30		84.45		86.61	85.50	85.70	89.00
04/21/74		131.40	124.18	113.76	105.54	1.74	1.43	0.12	82.15		84.29		86.43	85.27	85.54	88.83
04/28/74		131.37	124.10	113.58	105.39	1.87	1.53	0.44	81.94		84.05		86.16	84.92	85.29	88.58

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
05/05/74		131.27	124.04	113.38	105.32	1.89	1.55	0.02	81.84		84.05		86.18	95.55	85.29	88.58
05/12/74		131.22	124.08	113.24	105.41	1.88	1.54	2.87	81.88		83.88		86.08	94.81	85.22	88.50
05/19/74		131.47	124.22	113.22	105.35	1.78	1.44	2.17	81.84		83.83		86.03	94.75	85.17	88.45
05/26/74		131.52	124.18	112.94	105.31	1.87	1.59	0.48	81.75		83.83		85.82	94.61	85.07	88.35
06/02/74		131.47	124.08	112.72	105.19	1.58	1.33	0.16	81.58		83.65		85.71	94.33	84.88	88.15
06/09/74		131.42	124.12	112.56	105.17	1.89	1.61	2.36	81.57		83.63		85.69	94.31	84.88	88.13
06/16/74		131.42	124.20	112.48	105.17	1.83	1.39	3.26	81.59		83.65		85.72	94.35	84.88	88.16
06/23/74		131.48	124.14	112.36	105.09	1.67	1.52	0.00	81.62		83.69		85.76	94.40	84.93	88.20
06/30/74		131.54	124.35	112.38	105.32	1.32	1.20	4.41	81.58		83.65		85.71	94.33	84.88	88.15
07/07/74		131.88	124.54	112.47	105.48	1.25	1.14	0.50	81.72		83.81		85.89	94.82	85.04	88.32
07/14/74		131.82	124.68	112.40	105.49	1.80	1.64	3.12	81.82		83.91		86.01	94.72	85.15	88.43
07/21/74		131.82	124.68	112.48	105.44	1.64	1.49	1.33	81.74		83.83		85.81	94.59	85.08	88.34
07/28/74		131.82	124.64	112.61	105.51	1.12	1.02	2.43	81.88		83.89		86.09	94.83	85.23	88.51
08/04/74		131.92	124.88	112.83	105.48	1.27	1.16	1.00	81.84		83.94		86.04	94.78	85.18	88.46
08/11/74		131.92	124.90	112.74	105.53	1.12	1.02	1.92	81.88		83.88		86.08	94.79	85.20	88.48
08/18/74		131.81	124.86	112.88	105.79	1.25	1.14	2.10	81.65		84.07		86.18	94.94	85.31	88.59
08/25/74		131.78	124.82	112.89	105.90	1.54	1.31	2.48	82.02		84.14		86.28	95.05	85.38	88.67
09/01/74		131.90	124.88	112.94	105.86	1.47	1.25	0.27	81.89		84.11		86.23	95.01	85.35	88.64
09/08/74		132.12	125.28	113.50	106.13	1.20	1.02	2.63	82.09		84.22		86.35	95.40	85.46	88.75
09/15/74		132.24	125.48	113.73	106.19	1.38	1.17	2.15	82.28		84.41		86.59	95.44	85.68	88.85
09/22/74		132.20	125.44	113.89	106.08	1.49	1.13	2.14	82.33		84.49		86.65	95.55	85.74	88.94
09/29/74		132.10	125.28	113.97	105.97	1.04	0.79	0.35	82.44		84.61		86.79	95.74	85.87	89.17
10/06/74		131.90	125.08	113.91	105.75	1.49	1.13	0.00	82.38		84.53		86.89	95.61	85.77	89.08
10/13/74		131.80	124.94	113.77	105.68	1.32	1.00	0.00	82.20		84.35		86.49	95.35	85.59	88.89
10/20/74		131.74	124.86	113.78	105.56	1.10	0.84	0.11	82.11		84.24		86.37	95.19	85.48	88.77
10/27/74		131.82	124.74	113.58	105.48	1.11	0.79	0.00	82.03		84.15		86.27	95.60	85.39	88.68
11/03/74		131.82	124.70	113.44	105.35	1.14	0.81	0.80	81.85		84.08		86.17	94.93	85.30	88.58
11/10/74		131.54	124.64	113.31	105.31	0.88	0.61	0.20	81.82		84.02		86.13	94.88	85.28	88.55
11/17/74		131.49	124.54	113.14	105.17	0.84	0.60	0.13	81.77		83.88		85.85	94.65	85.10	88.38
11/24/74		131.44	124.54	113.11	105.18	0.86	0.71	0.18	81.68		83.75		85.83	94.49	84.89	88.28
12/01/74		131.40	124.48	112.78	105.13	0.82	0.76	1.01	81.64		83.72		85.79	94.44	84.65	88.23
12/08/74		131.44	124.42	112.79	105.09	0.71	0.59	0.67	81.49		83.55		85.60	94.19	84.78	88.05
12/15/74		131.51	124.60	112.91	105.12	0.78	0.65	2.45	81.58		83.62		85.68	94.30	84.85	88.12
12/22/74		131.55	124.68	112.84	105.16	0.54	0.42	0.44	81.48		83.53		85.58	94.17	84.78	88.03
12/29/74		131.82	124.64	112.78	105.21	0.58	0.45	0.00	81.33		83.37		85.40	93.93	84.60	87.86
01/05/75		131.81	124.58	112.68	105.17	0.74	0.57	0.26	81.31		83.33		85.38	94.78	84.58	87.82
01/12/75		131.77	124.62	112.79	105.29	0.85	0.73	1.78	81.28		83.30		85.33	93.84	84.53	87.79
01/19/75		131.74	124.66	112.78	105.22	0.79	0.61	0.19	81.25		83.27		85.29	93.79	84.50	87.75
01/26/75		131.72	124.72	112.74	105.31	0.44	0.30	0.86	81.22		83.24		85.28	93.74	84.47	87.72
02/02/75		131.70	124.70	112.71	105.28	0.83	0.57	0.01	81.19		83.21		85.22	93.70	84.43	87.69
02/09/75		131.72	124.67	112.68	105.26	0.83	0.57	1.16	81.18		83.17		85.18	93.65	84.40	87.65
02/16/75		131.72	124.74	112.76	105.31	0.85	0.66	1.45	81.13		83.14		85.15	93.60	84.37	87.62
02/23/75		131.70	124.80	112.82	105.43	0.81	0.59	1.02	81.11		83.11		85.11	93.56	84.33	87.58
03/02/75		131.67	124.74	112.78	105.38	1.09	0.80	0.74	81.08		83.08		85.08	93.51	84.30	87.55
03/09/75		131.64	124.64	112.65	105.37	1.17	0.85	0.38	81.05		83.04		85.04	93.48	84.27	87.52
03/16/75		131.80	124.58	112.58	105.35	1.28	0.93	0.00	81.02		83.01		85.00	94.41	84.23	87.48
03/23/75		131.56	124.62	112.48	105.17	1.25	1.05	0.34	80.89		82.98		84.97	93.37	84.20	87.45
03/30/75		131.52	124.52	112.37	105.10	1.62	1.36	0.15	80.88		82.85		84.93	93.32	84.17	87.41
04/06/75		131.52	124.30	112.14	104.95	1.71	1.44	0.00	80.83		82.91		84.89	93.28	84.14	87.38
04/13/75		131.50	124.35	112.19	105.13	1.25	1.05	1.72	80.80		82.88		84.88	93.23	84.10	87.34
04/20/75		131.44	124.40	112.01	105.07	1.49	1.22	0.49	80.88		82.85		84.82	93.18	84.07	87.31
04/27/75		131.36	124.25	111.80	104.89	1.58	1.30	0.00	80.85		82.82		84.79	93.14	84.04	87.28
05/04/75		131.30	124.15	111.59	104.81	1.74	1.43	1.46	80.82		82.78		84.75	93.08	84.00	87.24
05/11/75		131.38	124.05	111.40	104.77	1.40	1.15	0.21	80.83		82.80		84.77	93.11	84.02	87.28
05/18/75		131.40	124.15	111.31	104.80	1.78	1.44	2.33	80.78		82.74		84.70	93.02	83.88	87.20
05/25/75		131.37	124.05	111.02	104.89	1.85	1.86	0.00	80.81		82.55		84.49	92.75	83.77	87.00
06/01/75		131.37	123.90	110.99	104.53	1.65	1.57	1.04	80.53		82.48		84.39	92.62	83.68	86.90
06/08/75		131.37	123.75	110.88	104.41	1.52	1.29	1.22	80.49		82.42		84.34	92.58	83.63	86.86
06/15/75		131.40	123.90	110.76	104.57	1.77	1.50	1.41	80.45		82.37		84.29	92.49	83.58	86.81
06/22/75		131.48	123.85	110.74	104.51	1.52	1.38	0.43	80.44		82.35		84.27	92.47	83.57	86.79
06/29/75		131.50	124.00	110.80	104.59	1.40	1.27	1.77	80.45		82.37		84.29	92.49	83.58	86.81
07/06/75		131.80	124.32	110.41	104.47	1.78	1.60	0.78	80.44		82.35		84.27	92.75	83.57	86.79
07/13/75		131.70	124.68	110.61	104.57	1.32	1.20	3.71	80.49		82.42		84.34	92.58	83.63	86.86
07/20/75		131.80	124.72	110.59	104.58	1.12	1.02	0.52	80.47		82.39		84.31	92.52	83.60	86.83
07/27/75		131.78	124.90	110.74	104.62	1.11	1.01	1.44	80.55		82.48		84.41	92.65	83.69	86.82
08/03/75		131.74	124.84	110.83	104.78	1.09	0.99	1.89	80.62		82.58		84.50	92.78	83.78	87.01
08/10/75		131.70	124.68	110.73	104.65	1.56	1.42	0.23	80.58		82.49		84.42	92.68	83.70	86.93
08/17/75		131.74	124.58	110.58	104.59	1.41	1.28	0.85	80.60		82.54		84.48	92.74	83.76	86.89
08/24/75		131.80	124.62	110.44	104.50	1.59	1.35	0.59	80.68		82.62		84.57	92.85	83.84	87.07
08/31/75		131.72	124.58	110.42	104.53	1.33	1.13	1.08	80.77		82.73		84.68	93.01	83.95	87.19

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
08/07/75		131.77	124.78	110.48	104.57	1.50	1.28	5.27	80.79		82.78		84.72	83.50	83.68	87.21
08/14/75		131.82	124.88	110.72	104.87	1.32	1.12	1.94	80.82		82.78		84.75	83.09	84.00	87.24
08/21/75		131.96	124.88	111.00	104.88	1.12	0.85	1.82	81.03		83.03		85.02	83.44	84.25	87.50
08/28/75		131.88	125.02	110.88	104.88	1.15	0.87	3.35	81.02		83.02		85.01	83.43	84.24	87.49
10/05/75		131.92	125.08	110.88	104.53	1.00	0.78	0.81	81.02		83.02		85.01	83.43	84.24	87.49
10/12/75		131.96	125.22	111.10	104.88	1.01	0.77	0.58	81.12		83.13		85.13	83.58	84.35	87.60
10/19/75		131.91	125.30	111.10	104.57	1.21	0.92	1.02	81.20		83.21		85.23	83.71	84.44	87.70
10/26/75		131.86	125.28	111.07	104.48	0.99	0.70	0.00	81.08		83.08		85.08	83.67	84.31	87.55
11/02/75		131.78	124.88	110.96	104.40	0.97	0.69	0.79	81.04		83.04		85.03	83.45	84.28	87.51
11/09/75		131.67	124.82	110.91	104.35	0.71	0.50	0.59	80.97		82.85		84.84	83.34	84.18	87.42
11/16/75		131.62	124.82	110.81	104.25	0.78	0.55	0.40	80.85		82.82		84.79	83.14	84.04	87.28
11/23/75		131.57	124.74	110.89	104.17	0.80	0.66	0.06	80.77		82.73		84.69	83.01	83.85	87.19
11/30/75		131.52	124.68	110.59	104.09	0.68	0.56	0.00	80.70		82.65		84.60	82.89	83.87	87.10
12/07/75		131.52	124.68	110.48	104.01	0.63	0.52	0.01	80.67		82.61		84.58	82.84	83.83	87.06
12/14/75		131.50	124.64	110.35	103.92	0.59	0.49	0.06	80.49		82.42		84.34	82.56	83.63	86.86
12/21/75		131.45	124.54	110.25	103.85	0.78	0.59	0.36	80.58		82.49		84.42	82.68	83.70	86.93
12/28/75		131.40	124.52	110.25	103.81	0.58	0.45	0.55	80.48		82.38		84.30	82.50	83.59	86.82
01/04/76		131.42	124.52	110.24	103.98	0.56	0.43	2.83	80.59		82.52		84.48	82.71	83.74	86.97
01/11/76		131.44	124.62	110.16	103.91	0.41	0.32	0.38	80.49		82.42		84.34	82.58	83.63	86.86
01/18/76		131.47	124.60	110.09	103.87	0.73	0.56	0.36	80.35		82.25		84.18	83.10	83.47	86.68
01/25/76		131.44	124.52	109.98	103.80	0.74	0.51	0.00	80.29		82.18		84.08	82.22	83.39	86.61
02/01/76		131.50	124.60	109.98	103.87	0.78	0.54	1.88	80.43		82.34		84.28	82.45	83.58	86.78
02/08/76		131.52	124.64	109.85	103.81	0.67	0.60	0.01	80.08		81.85		83.82	81.88	83.15	86.36
02/15/76		131.52	124.58	109.73	103.73	0.83	0.64	0.00	79.84		81.68		83.52	81.48	82.88	86.06
02/22/76		131.49	124.54	109.63	103.68	1.26	0.92	0.16	79.88		81.73		83.57	81.58	82.83	86.13
02/29/76		131.47	124.42	109.41	103.59	0.99	0.72	0.00	79.75		81.58		83.41	82.18	82.78	85.98
03/07/76		131.41	124.40	109.28	103.58	1.13	0.82	0.00	79.67		81.49		83.31	81.22	82.69	85.88
03/14/76		131.35	124.38	109.11	103.47	1.20	0.88	0.03	79.59		81.40		83.21	81.09	82.60	85.79
03/21/76		131.28	124.28	108.96	103.33	1.34	1.13	0.13	79.48		81.28		83.07	80.81	82.47	85.65
03/28/76		131.21	124.18	108.74	103.31	1.19	1.00	0.42	79.42		81.20		82.99	80.80	82.40	85.58
04/04/76		131.20	124.10	108.51	103.19	1.67	1.40	1.39	79.32		81.10		82.87	80.85	82.29	85.47
04/11/76		131.15	124.04	108.36	103.19	1.11	0.93	1.83	79.27		81.03		82.80	80.58	82.22	85.40
04/18/76		131.11	123.98	108.17	103.15	1.61	1.32	0.00	79.11		80.85		82.60	80.30	82.04	85.21
04/25/76		131.06	123.88	107.98	103.05	1.64	1.34	0.02	79.00		80.73		82.48	80.12	81.91	85.08
05/02/76		131.02	123.78	107.72	102.93	1.57	1.29	1.10	78.83		80.65		82.37	80.00	81.83	84.98
05/09/76		131.09	123.88	107.52	102.86	1.67	1.37	0.00	78.82		80.53		82.24	80.78	81.71	84.87
05/16/76		131.15	123.88	107.62	102.95	1.39	1.14	2.92	78.83		80.66		82.38	80.01	81.84	85.00
05/23/76		131.21	123.78	107.64	103.08	1.52	1.29	1.48	79.13		80.88		82.63	80.34	82.07	85.24
05/30/76		131.28	123.90	107.50	103.01	1.19	1.01	1.98	78.90		80.62		82.34	80.06	81.80	84.98
06/06/76		131.32	124.04	107.53	103.29	1.42	1.21	0.39	78.94		80.67		82.39	80.03	81.85	85.01
06/13/76		131.38	124.18	107.36	103.26	1.63	1.39	0.04	78.98		80.68		82.41	80.05	81.87	85.03
06/20/76		131.40	124.26	107.33	103.21	1.83	1.67	4.89	79.07		80.81		82.55	80.23	82.00	85.18
06/27/76		131.44	124.38	107.30	103.20	1.20	1.09	4.03	79.07		80.81		82.55	80.23	82.00	85.18
07/04/76		131.48	124.40	107.25	103.19	1.24	1.13	2.69	79.08		80.82		82.56	80.25	82.00	85.17
07/11/76		131.48	124.68	107.31	103.17	1.59	1.45	1.40	79.10		80.85		82.59	80.77	82.03	85.20
07/18/76		131.44	124.68	107.31	103.23	1.76	1.60	0.09	79.04		80.77		82.51	80.18	81.98	85.13
07/25/76		131.42	124.58	107.26	103.05	1.62	1.47	0.04	79.05		80.79		82.53	80.21	81.98	85.14
08/01/76		131.40	124.54	107.09	102.95	1.67	1.52	2.88	79.03		80.78		82.50	80.17	81.95	85.12
08/08/76		131.38	124.36	106.94	102.83	1.22	1.11	0.56	78.90		80.62		82.34	80.06	81.80	84.98
08/15/76		131.33	124.36	106.70	102.81	1.52	1.38	1.11	78.78		80.48		82.18	80.75	81.66	84.81
08/22/76		131.29	124.30	106.59	102.71	1.25	1.08	0.59	78.78		80.48		82.18	80.73	81.64	84.79
08/29/76		131.24	124.18	106.32	102.57	1.47	1.25	0.28	78.50		80.17		81.84	80.31	81.35	84.49
09/05/76		131.20	124.22	106.24	102.53	1.53	1.30	1.78	78.57		80.24		81.92	80.41	81.42	84.57
09/12/76		131.27	124.56	106.22	102.55	1.38	1.17	2.80	78.62		80.31		81.89	80.32	81.48	84.63
09/19/76		131.35	124.58	106.17	102.58	0.91	0.69	0.70	78.77		80.47		82.17	80.74	81.65	84.80
09/26/76		131.42	124.58	106.05	102.51	1.04	0.79	0.29	78.69		80.38		82.07	80.61	81.56	84.71
10/03/76		131.50	124.52	105.84	102.37	1.23	0.93	0.00	78.63		80.32		82.00	80.52	81.49	84.64
10/10/76		131.43	124.46	105.70	102.21	1.23	0.93	0.99	78.58		80.24		81.91	80.40	81.41	84.56
10/17/76		131.38	124.30	105.58	102.13	1.14	0.87	0.92	78.62		80.30		81.88	80.49	81.48	84.62
10/24/76		131.29	124.22	105.38	101.99	1.18	0.84	0.04	78.44		80.10		81.78	80.21	81.27	84.42
10/31/76		131.22	124.18	105.12	101.87	0.81	0.58	0.26	78.42		80.07		81.73	80.08	81.25	84.39
11/07/76		131.22	124.00	104.94	101.75	0.91	0.85	0.01	78.25		79.89		81.52	80.00	81.06	84.19
11/14/76		131.21	123.88	104.77	101.87	0.78	0.54	0.03	78.37		80.02		81.67	80.09	81.19	84.33
11/21/76		131.21	123.90	104.80	101.81	0.39	0.32	2.59	78.33		79.97		81.62	80.03	81.15	84.28
11/28/76		131.20	123.98	104.59	101.75	0.57	0.47	0.00	78.39		80.05		81.70	80.13	81.22	84.36
12/05/76		131.20	123.94	104.53	101.67	0.80	0.50	0.31	78.28		79.89		81.53	80.01	81.08	84.20
12/12/76		131.32	124.00	104.69	101.75	0.40	0.33	0.40	78.27		79.91		81.55	80.03	81.08	84.22
12/19/76		131.44	124.40	104.69	102.03	0.35	0.27	1.38	78.54		80.22		81.89	80.38	81.39	84.54
12/26/76		131.58	124.38	104.72	102.13	0.53	0.41	2.67	78.89		80.60		82.32	80.63	81.79	84.85
01/02/77		131.68	124.60	104.85	102.17	0.68	0.52	0.41	78.81		80.52		82.23	80.62	81.70	84.88

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
01/09/77		131.88	124.88	105.01	102.19	0.45	0.35	1.85	79.11		80.85		82.60	89.82	82.04	85.21
01/18/77		131.84	124.88	105.00	102.21	0.84	0.65	1.19	79.14		80.89		82.64	90.35	82.08	85.25
01/23/77		131.81	124.58	104.93	102.09	0.66	0.48	0.00	79.07		80.81		82.55	90.23	82.00	85.16
01/30/77		131.58	124.50	104.91	102.05	0.68	0.48	0.04	79.09		80.84		82.58	90.27	82.02	85.19
02/06/77		131.56	124.62	105.05	102.15	0.62	0.43	2.44	79.16		80.82		82.67	90.39	82.11	85.28
02/13/77		131.58	124.58	105.03	102.10	0.83	0.64	0.00	79.34		81.11		82.89	90.67	82.31	85.48
02/20/77		131.81	124.52	104.97	102.03	1.01	0.74	0.13	79.28		81.03		82.79	90.54	82.21	85.39
02/27/77		131.84	124.59	105.07	102.10	1.54	1.12	1.70	79.33		81.11		82.88	90.68	82.30	85.47
03/06/77		131.80	124.54	104.98	102.05	1.12	0.82	0.28	79.25		81.02		82.78	90.53	82.21	85.38
03/13/77		131.55	124.52	105.05	102.07	0.89	0.72	0.89	79.31		81.08		82.85	90.62	82.27	85.45
03/20/77		131.51	124.58	105.01	102.01	1.48	1.23	0.00	79.22		80.88		82.74	90.09	82.17	85.34
03/27/77		131.47	124.40	104.93	101.89	1.62	1.36	0.18	79.12		80.88		82.61	90.31	82.05	85.22
04/03/77		131.43	124.28	104.73	101.79	1.59	1.34	0.00	79.02		80.78		82.49	90.15	81.94	85.11
04/10/77		131.35	124.14	104.53	101.61	1.69	1.42	0.20	78.83		80.54		82.25	89.84	81.72	84.88
04/17/77		131.27	124.00	104.30	101.49	1.75	1.44	0.00	78.70		80.47		82.17	89.74	81.65	84.80
04/24/77		131.18	123.90	104.14	101.09	1.58	1.30	0.63	78.78		80.48		82.18	89.75	81.68	84.81
05/01/77		131.10	123.78	103.88	101.25	1.99	1.63	0.00	78.35		79.69		81.64	89.05	81.18	84.30
05/08/77		131.08	123.68	103.87	101.11	2.05	1.68	0.00	78.38		80.01		81.68	89.12	81.18	84.32
05/15/77		131.06	123.72	103.62	101.19	1.82	1.49	0.23	78.16		79.78		81.40	88.74	80.95	84.08
05/22/77		131.04	123.58	103.70	101.03	2.29	1.95	0.00	77.88		79.45		81.03	88.28	80.61	83.73
05/29/77		131.02	123.54	103.37	101.09	1.42	1.21	0.23	78.08		79.70		81.31	88.82	80.88	83.89
06/05/77		131.00	123.42	103.14	100.89	1.76	1.50	0.00	77.77		79.34		80.91	88.10	80.50	83.61
06/12/77		131.02	123.34	102.84	100.87	2.47	2.10	0.37	77.70		78.27		80.83	88.00	80.43	83.54
06/18/77		131.04	123.30	102.76	100.93	1.98	1.80	0.74	77.67		78.23		80.79	87.85	80.39	83.50
06/26/77		131.03	123.18	102.71	100.87	2.17	1.87	1.15	77.64		79.19		80.75	87.60	80.35	83.46
07/03/77		131.02	123.08	102.51	100.71	2.09	1.90	0.49	77.48		79.01		80.55	87.64	80.17	83.27
07/10/77		131.05	123.00	102.41	100.67	1.74	1.58	0.34	77.50		79.04		80.58	87.65	80.20	83.30
07/17/77		131.08	122.88	102.17	100.55	1.88	1.69	0.15	77.47		79.01		80.54	87.62	80.18	83.28
07/24/77		131.11	122.74	101.97	100.43	1.85	1.77	0.00	77.35		78.87		80.39	87.43	80.02	83.12
07/31/77		131.14	122.90	102.15	100.48	1.91	1.74	0.48	77.35		78.87		80.39	87.43	80.02	83.12
08/07/77		131.14	122.88	101.98	100.33	1.90	1.73	0.05	77.30		78.62		80.33	87.35	79.97	83.08
08/14/77		131.14	122.82	101.88	100.29	1.52	1.38	1.68	77.22		78.73		80.23	87.22	79.88	82.97
08/21/77		131.13	122.85	101.81	100.33	1.38	1.18	4.35	77.24		78.75		80.25	87.25	79.90	82.99
08/28/77		131.13	123.02	101.74	100.38	1.04	0.88	1.02	77.28		78.78		80.27	87.27	79.91	83.01
09/04/77		131.13	123.10	101.78	100.40	1.15	0.88	0.84	77.34		78.86		80.39	87.42	80.01	83.11
09/11/77		131.12	123.18	101.58	100.31	1.59	1.35	0.00	77.34		78.85		80.37	87.40	80.01	83.10
09/18/77		131.12	123.14	101.67	100.31	1.48	1.11	3.36	77.39		78.82		80.44	88.57	80.07	83.17
09/25/77		131.12	123.38	101.63	100.54	1.23	0.83	1.27	77.55		79.10		80.64	87.75	80.25	83.38
10/02/77		131.11	123.32	101.42	100.41	1.23	0.83	0.49	77.52		79.08		80.60	87.70	80.22	83.32
10/09/77		131.11	123.10	101.20	100.23	1.37	1.04	0.03	77.42		78.85		80.48	87.55	80.11	83.21
10/16/77		130.85	122.98	100.98	100.09	1.04	0.79	0.06	77.29		78.80		80.31	87.33	79.95	83.05
10/23/77		130.91	122.80	100.79	99.88	1.10	0.78	0.00	77.19		78.68		80.18	87.16	79.83	82.82
10/30/77		130.88	122.64	100.61	99.88	0.86	0.61	0.00	77.18		78.67		80.17	87.14	79.82	82.81
11/06/77		130.85	122.62	100.51	99.79	0.85	0.48	0.21	77.28		78.79		80.30	87.31	79.94	83.04
11/13/77		130.87	122.48	100.24	99.67	0.97	0.69	0.00	76.91		78.38		79.84	86.71	79.52	82.60
11/20/77		130.89	122.34	100.08	99.59	0.75	0.62	0.00	76.87		78.32		79.78	86.64	79.47	82.54
11/27/77		130.91	122.38	100.00	99.63	0.85	0.71	1.30	76.89		78.35		79.81	86.88	79.49	82.57
12/04/77		130.93	122.40	99.83	99.67	0.83	0.52	0.75	77.02		78.49		79.97	86.88	79.64	82.72
12/11/77		130.82	122.38	99.77	99.65	0.74	0.61	1.13	76.88		78.31		79.77	86.62	79.48	82.54
12/18/77		130.92	122.44	99.74	99.81	0.48	0.35	1.55	77.17		78.68		80.16	87.13	79.81	82.80
12/25/77		131.02	122.44	99.84	99.88	0.55	0.42	1.35	77.31		78.83		80.34	87.38	79.98	83.07
01/01/78		131.12	122.38	99.64	99.89	0.49	0.38	0.79	77.31		78.83		80.34	87.38	79.98	83.07
01/08/78		131.22	122.40	99.52	99.87	0.63	0.49	0.41	77.51		79.05		80.59	87.69	80.21	83.31
01/15/78		131.33	122.40	99.42	99.91	0.80	0.62	2.09	77.38		78.91		80.43	87.48	80.08	83.16
01/22/78		131.43	122.84	99.66	100.19	0.54	0.37	3.29	77.61		79.17		80.72	87.86	80.32	83.43
01/29/78		131.53	123.02	99.48	100.13	0.81	0.58	0.22	77.98		79.55		81.15	88.42	80.72	83.84
02/05/78		131.52	123.22	99.30	100.19	0.35	0.24	0.83	78.32		79.87		81.61	89.01	81.14	84.27
02/12/78		131.60	123.40	99.30	100.21	0.67	0.46	1.28	78.30		79.94		81.58	88.87	81.11	84.25
02/19/78		131.67	123.80	99.22	100.39	0.71	0.52	2.78	78.39		80.04		81.69	89.12	81.21	84.35
02/26/78		131.75	123.98	99.10	100.33	1.00	0.73	0.00	78.30		81.58		81.58	88.97	81.11	84.25
03/05/78		131.82	124.55	99.30	100.60	0.80	0.58	3.33	78.48		80.15		81.81	89.27	81.32	84.46
03/12/78		131.88	124.70	100.16	100.59	0.74	0.54	0.93	78.77		80.47		82.17	89.74	81.65	84.80
03/19/78		131.90	124.74	100.38	100.60	1.10	0.92	0.37	78.82		80.64		82.38	89.89	81.82	84.98
03/26/78		131.94	124.88	100.58	100.53	1.39	1.17	0.00	79.20		80.85		82.71	90.44	82.14	85.31
04/02/78		131.80	124.52	100.59	100.43	1.49	1.25	0.00	79.24		81.01		82.77	90.52	82.20	85.37
04/09/78		131.77	124.40	100.60	100.33	1.73	1.45	0.00	79.28		81.03		82.79	90.54	82.21	85.39
04/16/78		131.74	124.32	100.61	100.25	1.62	1.33	0.54	79.28		81.03		82.79	90.54	82.21	85.39
04/23/78		131.71	124.30	100.89	100.15	1.89	1.63	0.10	79.18		80.94		82.69	90.41	82.12	85.30
04/30/78		131.69	124.18	100.55	100.01	2.05	1.68	0.00	79.05		80.79		82.53	89.10	81.98	85.14
05/07/78		131.88	124.38	100.79	100.21	1.38	1.13	2.82	79.13		80.88		82.63	90.34	82.07	85.24

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
05/14/78		131.80	124.42	100.83	100.19	1.79	1.47	0.28	79.18		80.94		82.69	80.41	82.12	85.30
05/21/78		131.72	124.26	100.71	100.07	1.80	1.53	0.29	79.04		80.77		82.51	80.18	81.98	85.13
05/28/78		131.64	124.18	100.59	99.93	1.97	1.67	0.06	78.86		80.59		82.31	89.92	81.78	84.94
06/04/78		131.56	124.24	100.89	99.97	1.78	1.50	2.54	78.98		80.71		82.44	90.09	81.90	85.08
06/11/78		131.58	124.40	100.89	100.04	1.32	1.12	0.95	78.99		80.60		82.32	89.93	81.79	84.85
06/18/78		131.62	124.38	100.81	100.11	1.98	1.80	0.08	78.89		80.61		82.33	89.95	81.79	84.88
06/25/78		131.66	124.24	100.88	100.17	1.45	1.32	0.33	78.86		80.56		82.29	89.90	81.76	84.82
07/02/78		131.70	124.32	100.89	100.20	2.10	1.81	0.00	78.83		80.54		82.25	89.94	81.72	84.88
07/09/78		131.88	124.80	101.39	100.39	1.74	1.56	2.91	78.96		80.68		82.41	90.05	81.67	85.03
07/16/78		132.06	124.80	101.84	100.41	1.39	1.26	2.14	79.07		80.81		82.55	90.23	82.00	85.16
07/23/78		132.24	124.78	101.79	100.49	1.28	1.16	1.23	79.05		80.79		82.53	90.21	81.98	85.14
07/30/78		132.42	124.80	102.04	100.51	1.44	1.31	3.96	79.20		80.85		82.71	90.44	82.14	85.31
08/06/78		132.54	125.57	103.20	101.36	1.48	1.35	5.83	80.20		82.08		83.97	92.08	83.29	86.51
08/13/78		132.53	125.61	104.03	101.21	1.22	1.11	3.28	80.43		82.34		84.28	92.45	83.58	86.78
08/20/78		132.52	125.65	104.75	101.27	1.18	1.00	0.55	80.46		82.36		84.30	92.50	83.59	86.82
08/27/78		132.52	125.70	105.28	101.17	1.61	1.37	0.00	80.53		82.46		84.39	92.62	83.68	86.90
09/03/78		132.44	125.53	105.64	101.06	1.65	1.40	0.02	80.56		82.51		84.45	92.70	83.73	86.98
09/10/78		132.29	125.36	105.91	100.95	1.41	1.20	0.01	80.51		82.43		84.38	92.58	83.65	86.87
09/17/78		132.13	125.18	106.04	100.91	1.51	1.15	0.03	80.56		82.49		84.42	92.66	83.70	86.93
09/24/78		131.97	125.00	106.18	100.87	1.42	1.06	0.15	80.43		82.34		84.28	91.98	83.56	86.78
10/01/78		131.82	124.89	106.19	100.75	0.91	0.68	0.40	80.44		82.35		84.27	92.47	83.57	86.79
10/08/78		131.78	124.80	106.10	100.68	1.48	1.11	0.00	80.16		82.04		83.82	92.01	83.25	86.46
10/15/78		131.70	124.80	106.09	100.54	1.13	0.86	0.01	80.20		82.08		83.87	92.08	83.29	86.51
10/22/78		131.85	124.58	106.01	100.45	1.08	0.75	0.00	80.07		81.94		83.81	91.87	83.15	86.35
10/29/78		131.80	124.48	105.94	100.39	1.07	0.76	0.10	80.02		81.89		83.75	91.79	83.09	86.30
11/05/78		131.54	124.40	105.79	100.27	1.11	0.79	0.00	79.82		81.66		83.50	91.47	82.86	86.08
11/12/78		131.50	124.37	105.65	100.22	0.81	0.58	0.00	79.67		81.49		83.31	91.22	82.69	85.88
11/19/78		131.48	124.35	105.58	100.18	0.84	0.70	0.00	79.48		81.28		83.07	90.91	82.47	85.65
11/26/78		131.42	124.31	105.40	100.10	0.77	0.84	0.00	79.48		81.26		83.07	90.91	82.47	85.65
12/03/78		131.63	124.50	105.56	100.15	0.82	0.88	2.84	79.44		81.23		83.02	90.84	82.42	85.61
12/10/78		131.67	124.42	105.41	100.21	0.73	0.61	0.25	79.31		81.06		82.85	90.62	82.27	85.45
12/17/78		131.71	124.30	105.30	100.09	0.65	0.50	0.36	79.24		81.00		82.76	90.51	82.19	85.36
12/24/78		131.75	124.25	105.20	100.01	0.72	0.55	0.35	79.45		81.24		83.03	90.86	82.43	85.62
12/31/78		131.78	124.25	105.21	100.11	0.60	0.46	0.99	79.30		81.07		82.84	90.61	82.28	85.44
01/07/79		131.82	124.24	105.28	100.17	0.67	0.52	1.56	79.40		81.16		82.86	90.78	82.37	85.55
01/14/79		131.95	124.35	105.26	100.31	0.52	0.40	2.79	79.42		81.20		82.89	90.80	82.40	85.58
01/21/79		132.08	124.66	105.35	100.31	0.54	0.37	2.32	79.65		81.46		83.28	91.18	82.66	85.85
01/28/79		132.09	124.85	105.46	100.50	0.69	0.48	1.54	79.56		81.37		83.17	91.04	82.56	85.75
02/04/79		132.10	124.94	105.56	100.49	0.77	0.53	0.48	79.44		81.23		83.02	90.84	82.42	85.61
02/11/79		132.14	125.04	105.73	100.54	0.55	0.38	1.10	79.53		81.33		83.13	90.99	82.52	85.71
02/18/79		132.18	125.04	105.81	100.50	0.72	0.53	0.00	79.51		81.30		83.10	90.95	82.50	85.68
02/25/79		132.22	125.50	106.07	100.55	0.64	0.47	1.24	79.76		81.59		83.42	91.38	82.79	85.99
03/04/79		132.26	125.40	106.19	100.59	0.89	0.65	0.00	79.47		81.27		83.08	90.89	82.46	85.65
03/11/79		132.16	125.18	106.55	100.72	1.06	0.77	1.00	79.65		81.46		83.28	91.18	82.66	85.85
03/18/79		132.07	125.07	106.63	100.63	1.29	1.08	0.00	79.47		81.27		83.08	90.89	82.46	85.65
03/25/79		131.97	124.98	106.70	100.57	1.57	1.32	0.17	79.61		81.42		83.23	91.12	82.62	85.81
04/01/79		131.88	124.88	106.57	100.43	1.51	1.27	0.00	79.34		81.11		82.89	90.67	82.31	85.48
04/08/79		131.89	125.01	106.80	100.67	1.37	1.15	3.23	79.47		81.27		83.08	90.89	82.46	85.65
04/15/79		131.90	125.04	107.07	100.73	1.62	1.33	2.07	79.51		81.31		83.11	90.98	82.51	85.69
04/22/79		131.91	124.84	107.02	100.56	1.70	1.39	0.00	79.34		81.11		82.89	90.67	82.31	85.48
04/29/79		131.92	124.82	107.17	100.65	1.45	1.19	2.48	79.45		81.24		83.03	90.86	82.43	85.62
05/06/79		131.92	124.79	107.28	100.64	1.49	1.22	1.65	79.49		81.29		83.08	90.92	82.48	85.68
05/13/79		131.84	124.77	107.28	100.63	1.10	0.90	1.19	79.59		81.39		83.20	91.03	82.59	85.79
05/20/79		131.77	124.75	107.18	100.53	1.53	1.30	0.41	79.68		81.50		83.32	91.23	82.70	85.89
05/27/79		131.69	124.72	106.93	100.41	1.72	1.46	0.27	79.55		81.36		83.16	91.02	82.55	85.74
06/03/79		131.62	124.70	106.89	100.33	1.59	1.35	1.05	79.56		81.37		83.17	91.04	82.56	85.75
06/10/79		131.58	124.65	106.65	100.17	1.80	1.53	0.00	79.43		81.21		83.00	90.82	82.41	85.59
06/17/79		131.53	124.40	106.66	100.27	1.42	1.29	0.49	79.56		81.36		83.19	91.08	82.56	85.77
06/24/79		131.49	124.38	106.41	100.17	1.61	1.47	2.28	79.49		81.29		83.08	90.92	82.48	85.68
07/01/79		131.45	124.33	106.33	100.15	1.64	1.49	0.87	79.52		81.32		83.12	90.97	82.52	85.70
07/08/79		131.45	124.32	106.31	100.05	1.87	1.70	0.48	79.63		81.44		83.25	91.14	82.63	85.82
07/15/79		131.45	124.34	106.24	100.11	1.57	1.43	0.50	79.60		81.41		83.22	91.10	82.61	85.80
07/22/79		131.46	124.47	106.27	100.21	1.27	1.16	1.64	79.70		81.52		83.34	91.28	82.72	85.91
07/29/79		131.46	124.44	106.13	100.15	1.64	1.49	0.56	79.66		81.47		83.29	91.19	82.67	85.86
08/05/79		131.46	124.48	106.06	100.10	1.47	1.34	1.61	79.71		81.53		83.35	91.27	82.73	85.92
08/12/79		131.51	124.40	105.71	100.05	1.37	1.25	4.20	79.75		81.58		83.41	91.35	82.78	85.98
08/19/79		131.57	124.46	105.79	100.00	1.28	1.09	0.35	79.71		81.53		83.35	91.27	82.73	85.92
08/26/79		131.55	124.47	105.71	99.98	1.52	1.29	1.60	79.84		81.46		83.27	91.17	82.65	85.84
09/02/79		131.54	124.45	105.53	99.95	1.44	1.22	0.96	79.63		81.45		83.26	91.15	82.64	85.83
09/09/79		131.66	124.44	105.51	100.05	1.34	1.14	3.36	79.59		81.40		83.21	91.09	82.60	85.79

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
08/18/79	131.80	124.62	105.70	100.15	1.16	0.88	2.82	79.77			81.60		83.43	81.38	82.80	85.59
08/23/79	131.92	124.69	105.74	100.21	1.08	0.81	0.28	79.67			81.82		83.68	81.70	83.03	86.23
08/30/79	132.03	124.68	105.86	100.29	1.13	0.86	5.87	80.25			82.14		84.03	82.15	83.35	86.58
10/07/79	131.92	124.66	105.77	100.21	1.35	1.03	0.08	80.27			82.16		84.08	82.19	83.37	86.59
10/14/79	131.86	124.69	105.66	100.11	1.07	0.81	0.02	80.24			82.13		84.02	82.14	83.34	86.55
10/21/79	131.80	124.62	105.56	100.01	1.13	0.80	0.00	80.21			82.09		83.88	82.09	83.30	86.51
10/28/79	131.74	124.65	105.42	99.91	1.16	0.84	0.01	80.20			82.08		83.87	82.08	83.29	86.51
11/04/79	131.88	124.68	105.43	99.97	1.13	0.80	0.53	80.20			82.08		83.87	82.08	83.29	86.51
11/11/79	131.70	125.01	105.42	100.03	0.75	0.53	0.44	80.28			82.16		84.05	82.18	83.36	86.58
11/18/79	131.72	125.04	105.28	100.10	0.61	0.51	0.05	80.18			82.07		83.85	82.05	83.27	86.49
11/25/79	131.74	125.07	105.34	100.17	0.78	0.63	0.12	80.27			82.16		84.08	82.19	83.37	86.59
12/02/79	131.76	125.09	105.15	100.24	0.89	0.74	0.18	80.05			81.91		83.78	81.83	83.12	86.33
12/09/79	132.10	125.12	105.54	100.31	0.69	0.57	5.31	80.28			82.17		84.07	82.21	83.38	86.60
12/16/79	132.05	125.14	105.66	100.31	0.53	0.41	0.51	80.38			82.29		84.20	82.37	83.50	86.72
12/23/79	132.01	125.16	105.74	100.31	0.41	0.32	0.05	80.33			82.24		84.14	82.30	83.45	86.67
12/30/79	131.96	125.18	105.79	100.31	0.62	0.48	0.22	80.43			82.34		84.28	82.45	83.56	86.78
01/06/80	131.92	125.20	105.89	100.30	0.54	0.42	1.10	80.22			82.11		84.00	82.11	83.32	86.53
01/13/80	132.02	125.22	106.07	100.30	0.35	0.27	1.50	80.29			82.19		84.09	82.23	83.40	86.62
01/20/80	132.01	125.24	106.15	100.30	0.55	0.36	0.22	80.23			82.12		84.01	82.13	83.33	86.54
01/27/80	132.01	125.33	106.51	100.39	0.60	0.62	3.25	80.51			82.43		84.36	82.58	83.65	86.87
02/03/80	132.00	125.38	106.71	100.41	0.64	0.44	0.13	80.47			82.39		84.31	82.52	83.60	86.83
02/10/80	132.00	125.31	106.77	100.36	0.78	0.54	0.12	80.72			82.68		84.63	82.83	83.89	87.13
02/17/80	132.01	125.28	106.92	100.35	0.58	0.42	0.61	80.75			82.70		84.66	82.97	83.92	87.16
02/24/80	132.01	125.21	107.12	100.36	0.67	0.64	1.13	80.65			82.60		84.54	82.82	83.81	87.04
03/02/80	132.02	125.19	107.12	100.35	0.63	0.61	0.27	80.81			82.78		84.74	83.08	83.89	87.23
03/09/80	132.03	125.19	107.34	100.41	1.06	0.77	0.66	80.71			82.68		84.61	82.91	83.88	87.11
03/16/80	132.04	125.21	107.48	100.45	1.19	1.00	0.83	80.71			82.67		84.62	82.92	83.89	87.12
03/23/80	132.05	125.14	107.50	100.38	1.33	1.12	0.04	80.68			82.62		84.57	82.85	83.84	87.07
03/30/80	132.06	125.08	107.61	100.42	1.25	1.05	0.99	80.91			82.88		84.86	83.23	84.10	87.35
04/06/80	132.12	125.04	107.66	100.50	1.19	1.00	3.14	80.91			82.88		84.86	83.23	84.10	87.35
04/13/80	132.03	125.01	107.95	100.43	1.44	1.18	0.15	81.00			82.99		84.98	83.39	84.21	87.46
04/20/80	131.95	124.98	107.88	100.37	1.37	1.12	0.89	81.04			83.04		85.03	83.45	84.26	87.51
04/27/80	131.87	124.94	107.94	100.29	1.78	1.44	0.00	80.67			82.85		84.82	83.18	84.07	87.31
05/04/80	131.78	124.90	107.79	100.24	1.36	1.13	0.02	80.77			82.73		84.69	83.01	83.85	87.19
05/11/80	131.83	124.86	107.83	100.23	1.35	1.11	2.29	80.77			82.73		84.69	83.01	83.85	87.19
05/18/80	131.87	124.81	107.90	100.24	1.30	1.11	0.90	80.77			82.73		84.69	83.01	83.85	87.19
05/25/80	131.92	124.83	108.07	100.32	1.61	1.37	1.84	80.65			82.83		84.91	83.30	84.15	87.39
06/01/80	131.84	124.80	107.95	100.30	1.67	1.42	0.03	80.73			82.69		84.84	82.85	83.80	87.14
06/08/80	131.78	124.80	107.79	100.18	2.09	1.78	0.00	80.48			82.40		84.32	82.53	83.61	86.84
06/15/80	131.71	124.68	107.60	100.04	1.75	1.59	0.21	80.27			82.16		84.08	82.19	83.37	86.59
06/22/80	131.67	124.65	107.59	100.00	1.67	1.52	0.89	80.18			82.07		83.85	82.05	83.27	86.46
06/29/80	131.83	124.65	107.51	100.03	1.33	1.21	1.20	80.09			81.97		83.84	81.91	83.17	86.38
07/06/80	131.70	124.79	107.41	100.00	1.67	1.52	0.78	79.79			81.83		83.46	81.41	82.83	86.02
07/13/80	131.77	124.98	107.34	99.97	2.02	1.84	0.70	79.88			81.73		83.57	81.58	82.93	86.13
07/20/80	131.85	125.08	107.23	99.89	1.89	1.72	0.66	79.88			81.70		83.54	81.52	82.90	86.10
07/27/80	131.83	125.20	107.82	100.03	1.40	1.27	5.74	80.09			81.97		83.84	81.91	83.17	86.38
08/03/80	132.00	125.20	107.83	100.19	1.67	1.52	0.97	80.16			82.04		83.92	82.01	83.25	86.48
08/10/80	131.99	125.21	107.80	100.07	1.74	1.58	0.36	80.15			82.03		83.91	82.00	83.24	86.45
08/17/80	131.99	125.21	108.21	100.19	1.36	1.18	0.99	80.31			82.21		84.11	82.28	83.42	86.64
08/24/80	131.90	125.14	108.13	100.32	1.33	1.13	1.33	80.33			82.23		84.13	82.28	83.44	86.66
08/31/80	131.81	124.92	108.23	100.17	1.54	1.31	0.48	80.23			82.12		84.01	82.13	83.33	86.54
09/07/80	131.72	124.80	107.88	100.05	1.40	1.19	0.55	80.24			82.13		84.02	82.14	83.34	86.55
09/14/80	131.66	124.73	107.71	99.97	1.22	0.93	0.36	80.05			81.91		83.78	81.83	83.12	86.33
09/21/80	131.61	124.78	107.72	100.02	1.21	0.92	0.82	80.04			81.80		83.77	81.82	83.11	86.32
09/28/80	131.56	124.78	107.56	100.09	1.21	0.92	0.65	79.88			81.71		83.55	81.53	82.91	86.11
10/05/80	131.50	124.63	107.48	100.00	1.18	0.90	1.46	79.78			81.62		83.45	81.40	82.82	86.01
10/12/80	131.45	124.50	107.28	99.94	1.26	0.98	0.00	79.75			81.56		83.41	81.35	82.78	85.98
10/19/80	131.40	124.38	107.06	99.88	1.22	0.87	0.00	79.64			81.46		83.27	81.17	82.65	85.84
10/26/80	131.35	124.35	106.91	99.82	0.94	0.87	0.80	79.40			81.18		82.96	80.78	82.37	85.55
11/02/80	131.30	124.30	106.83	99.75	0.63	0.45	0.75	79.43			81.22		83.01	80.83	82.42	85.60
11/09/80	131.32	124.22	106.84	99.74	0.75	0.53	0.32	79.40			81.18		82.96	80.78	82.37	85.55
11/16/80	131.31	124.28	106.52	99.55	0.79	0.68	0.00	79.40			81.19		82.97	80.78	82.38	85.56
11/23/80	131.31	124.24	106.35	99.59	0.62	0.51	0.53	79.38			81.13		82.91	80.70	82.32	85.50
11/30/80	131.30	124.22	106.24	99.65	0.49	0.41	0.58	79.28			81.05		82.82	80.58	82.24	85.42
12/07/80	131.30	124.18	106.05	99.53	0.70	0.58	0.00	79.34			81.11		82.89	80.67	82.31	85.48
12/14/80	131.26	124.12	105.90	99.50	0.67	0.52	0.00	79.13			80.98		82.83	80.34	82.07	85.24
12/21/80	131.22	124.08	105.74	99.44	0.74	0.57	0.21	78.94			80.87		82.39	80.03	81.85	85.01
12/28/80	131.19	124.00	105.52	99.43	0.56	0.43	0.06	79.09			80.83		82.57	80.28	82.01	85.18
01/04/81	131.16	123.82	105.33	99.39	0.56	0.43	0.01	78.88			80.59		82.31	80.82	81.78	84.94
01/11/81	131.15	123.60	105.19	99.29	0.56	0.43	0.75	78.60			80.28		81.88	80.47	81.48	84.61

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
01/18/81		131.14	123.82	104.83	99.22	0.61	0.42	0.02	78.43		80.08		81.74	89.18	81.23	84.40
01/25/81		131.16	123.78	104.83	99.17	0.63	0.43	0.29	78.50		80.18		81.63	89.30	81.34	84.46
02/01/81		131.18	123.79	104.83	99.14	0.63	0.57	0.14	78.48		80.12		81.78	89.23	81.29	84.44
02/08/81		131.20	123.81	104.73	99.26	0.53	0.37	1.96	78.55		80.23		81.90	89.39	81.40	84.55
02/15/81		131.32	124.00	104.73	99.80	0.82	0.60	0.81	78.48		80.15		81.81	89.27	81.32	84.46
02/22/81		131.44	124.42	104.62	99.76	0.99	0.72	3.84	78.80		80.50		82.21	89.79	81.69	84.84
03/01/81		131.58	124.50	104.69	99.75	1.38	1.01	0.00	78.88		80.58		82.29	89.60	81.78	84.92
03/08/81		131.70	124.57	104.68	99.74	1.13	0.82	1.03	78.88		80.58		82.29	89.60	81.78	84.92
03/15/81		131.68	124.46	104.51	99.69	1.20	1.01	0.00	78.93		80.68		82.38	90.01	81.84	85.00
03/22/81		131.66	124.42	104.53	99.66	1.50	1.28	1.79	79.14		80.69		82.64	90.35	82.08	85.25
03/29/81		131.65	124.56	104.41	99.63	1.19	1.00	0.06	78.96		80.68		82.41	90.05	81.87	85.03
04/05/81		131.64	124.54	104.39	99.60	1.44	1.21	0.86	78.99		80.72		82.45	90.10	81.80	85.07
04/12/81		131.55	124.45	104.21	99.48	1.55	1.27	0.02	78.80		80.50		82.21	89.79	81.69	84.84
04/19/81		131.48	124.30	104.04	99.37	1.62	1.33	0.00	78.71		80.41		82.10	89.65	81.58	84.74
04/26/81		131.37	124.18	103.84	99.28	1.52	1.25	0.38	78.62		80.31		81.99	89.51	81.48	84.63
05/03/81		131.28	124.10	103.58	99.12	1.84	1.51	0.00	78.17		79.80		81.42	89.77	80.98	84.09
05/10/81		131.20	123.84	103.36	98.98	1.84	1.51	0.05	77.88		79.45		81.03	89.28	80.61	83.73
05/17/81		131.13	123.77	103.07	98.85	2.01	1.71	0.00	77.88		79.45		81.03	89.28	80.61	83.73
05/24/81		131.06	123.68	102.82	98.72	2.25	1.91	0.00	77.68		79.22		80.78	87.94	80.38	83.49
05/31/81		131.00	123.60	102.71	98.58	2.04	1.73	0.78	77.69		79.25		80.81	87.97	80.41	83.52
06/07/81		130.85	123.44	102.36	98.48	2.15	1.83	1.37	77.67		79.23		80.79	87.85	80.39	83.50
06/14/81		130.80	123.38	102.34	98.44	1.98	1.71	1.92	77.63		79.19		80.74	87.88	80.34	83.45
06/21/81		130.88	123.30	102.15	98.35	2.11	1.92	2.77	77.60		79.15		80.70	87.83	80.31	83.41
06/28/81		130.89	123.22	101.90	98.37	1.57	1.43	0.73	77.54		79.09		80.63	87.74	80.24	83.35
07/05/81		130.92	123.11	101.73	98.25	1.75	1.59	0.00	77.48		79.00		80.53	87.61	80.15	83.25
07/12/81		131.01	123.18	101.60	98.18	1.87	1.52	0.89	77.33		78.84		80.38	87.39	80.00	83.09
07/19/81		131.11	123.28	101.59	98.31	1.56	1.42	1.24	77.30		78.82		80.33	87.35	79.97	83.08
07/26/81		131.20	123.28	101.49	98.31	1.36	1.24	0.05	77.30		78.81		80.32	87.34	79.98	83.08
08/02/81		131.22	123.37	101.67	98.55	1.48	1.35	0.78	77.50		79.04		80.58	87.68	80.20	83.30
08/09/81		131.25	123.48	101.46	98.66	1.87	1.70	1.81	77.50		79.03		80.57	87.68	80.19	83.29
08/16/81		131.28	123.55	101.33	98.69	1.10	0.94	0.22	77.54		79.09		80.63	87.74	80.24	83.35
08/23/81		131.40	123.64	101.36	98.72	0.96	0.82	0.78	77.54		79.08		80.62	87.73	80.23	83.34
08/30/81		131.53	124.00	101.48	98.74	1.21	1.03	1.89	77.72		79.28		80.85	88.03	80.44	83.56
09/06/81		131.66	124.10	101.29	98.77	1.21	1.03	0.28	77.77		79.35		80.92	88.12	80.51	83.62
09/13/81		131.82	124.18	101.12	98.74	1.34	1.02	0.41	77.88		79.46		81.05	88.29	80.63	83.75
09/20/81		131.56	124.24	101.11	98.71	1.38	1.05	0.96	77.85		79.54		81.14	88.40	80.71	83.83
09/27/81		131.50	124.18	100.94	98.58	1.30	0.99	0.00	78.03		79.63		81.24	88.53	80.80	83.92
10/04/81		131.45	124.02	100.67	98.45	1.80	1.22	0.00	77.89		79.48		81.07	88.31	80.64	83.78
10/11/81		131.40	123.90	100.46	98.42	1.17	0.89	0.13	77.74		79.31		80.98	88.08	80.47	83.58
10/18/81		131.36	123.72	100.16	98.35	1.17	0.83	0.00	77.63		79.19		80.74	87.88	80.34	83.45
10/25/81		131.33	123.64	99.98	98.31	1.11	0.79	0.65	77.75		79.32		80.89	88.08	80.48	83.59
11/01/81		131.30	123.62	99.88	98.31	0.74	0.53	0.07	77.65		79.21		80.77	87.82	80.37	83.48
11/08/81		131.34	123.64	99.70	98.32	0.91	0.65	2.00	77.65		79.20		80.76	87.81	80.36	83.47
11/15/81		131.34	123.70	99.80	98.34	0.89	0.57	1.85	77.74		79.31		80.88	88.08	80.47	83.58
11/22/81		131.35	123.64	99.40	98.31	0.89	0.74	0.50	77.65		79.20		80.78	87.91	80.38	83.47
11/29/81		131.36	123.60	99.21	98.30	0.80	0.68	0.01	77.62		79.18		80.73	87.87	80.33	83.44
12/06/81		131.37	123.60	99.04	98.25	0.81	0.67	0.85	77.50		79.03		80.57	87.68	80.19	83.29
12/13/81		131.40	123.50	98.86	98.18	0.83	0.49	0.13	77.42		78.95		80.48	87.55	80.11	83.21
12/20/81		131.44	123.44	98.64	98.10	0.82	0.48	0.02	77.25		78.75		80.28	87.28	79.80	83.00
12/27/81		131.48	123.50	98.82	98.12	0.38	0.28	1.08	77.58		79.13		80.68	87.81	80.29	83.40
01/03/82		131.52	123.60	98.56	98.21	0.69	0.53	0.87	77.48		78.99		80.52	87.60	80.14	83.24
01/10/82		131.58	123.58	98.34	98.24	0.73	0.58	0.58	77.38		78.88		80.40	87.44	80.03	83.13
01/17/82		131.64	124.08	98.66	98.38	0.58	0.39	4.08	77.51		79.05		80.59	87.69	80.21	83.31
01/24/82		131.70	124.22	98.54	98.50	0.79	0.55	0.00	77.77		79.34		80.91	88.10	80.50	83.61
01/31/82		131.76	124.24	98.38	98.48	0.87	0.60	0.00	77.88		79.46		81.05	88.29	80.63	83.75
02/07/82		131.82	124.38	98.24	98.48	0.86	0.48	1.15	77.77		79.34		80.91	88.10	80.50	83.61
02/14/82		131.79	124.44	98.16	98.58	0.88	0.48	0.77	77.73		79.29		80.88	88.04	80.45	83.57
02/21/82		131.76	124.42	98.44	98.68	1.18	0.88	3.08	77.93		79.53		81.12	88.38	80.69	83.81
02/28/82		131.74	124.30	98.82	98.57	0.91	0.68	0.00	77.77		79.34		80.91	88.10	80.50	83.61
03/07/82		131.72	124.40	98.34	98.58	0.88	0.72	2.27	78.12		79.73		81.35	88.68	80.60	84.03
03/14/82		131.74	124.32	99.36	98.62	1.20	1.01	0.00	77.96		79.56		81.16	88.43	80.73	83.85
03/21/82		131.78	124.28	99.34	98.57	1.25	1.05	0.07	77.91		79.50		81.09	88.34	80.66	83.78
03/28/82		131.78	124.28	99.42	98.60	0.79	0.68	2.07	77.80		79.37		80.95	88.16	80.53	83.65
04/04/82		131.80	124.24	99.42	98.60	1.15	0.97	1.01	77.98		79.58		81.18	88.45	80.74	83.87
04/11/82		131.72	124.68	99.91	98.63	1.44	1.18	7.80	78.32		79.97		81.61	89.01	81.14	84.27
04/18/82		131.81	124.64	100.06	98.63	1.44	1.18	0.04	78.55		80.23		81.90	89.39	81.40	84.55
04/25/82		131.80	124.56	100.15	98.68	1.37	1.12	0.17	78.67		80.36		82.05	89.58	81.54	84.69
05/02/82		132.00	124.44	100.19	98.80	1.38	1.13	0.92	78.84		80.32		82.01	89.53	81.50	84.65
05/09/82		132.01	124.30	100.08	98.69	1.58	1.30	0.04	78.56		80.24		81.91	89.40	81.41	84.56
05/16/82		132.02	124.28	99.82	98.51	1.87	1.58	0.00	78.23		78.87		81.50	88.87	81.04	84.17

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
05/23/82		132.03	124.24	98.65	98.45	1.78	1.52	1.48	78.18		79.80		81.43	88.78	80.97	84.10
05/30/82		132.04	124.22	100.18	98.57	1.32	1.12	0.87	78.18		79.80		81.43	88.78	80.97	84.10
06/06/82		132.05	124.54	100.18	98.69	1.84	1.39	1.81	78.31		79.88		81.80	88.00	81.13	84.28
06/13/82		132.08	124.44	100.12	98.61	1.90	1.73	2.00	78.27		79.80		81.54	88.82	81.07	84.21
06/20/82		132.08	124.70	100.62	98.71	1.62	1.47	3.08	78.56		80.24		81.91	89.40	81.41	84.56
06/27/82		132.10	124.90	100.97	98.91	1.16	1.08	2.94	78.72		80.41		82.11	89.68	81.59	84.75
07/04/82		132.12	124.80	101.12	98.94	1.71	1.58	0.05	78.79		80.50		82.20	89.78	81.68	84.83
07/11/82		132.14	124.86	101.30	98.91	1.13	1.03	0.73	79.03		80.76		82.50	90.17	81.85	85.12
07/18/82		132.17	124.76	101.39	98.92	1.95	1.77	2.43	79.10		80.85		82.59	90.28	82.03	85.20
07/25/82		132.20	124.73	101.47	98.97	1.40	1.27	2.96	79.21		80.97		82.73	90.47	82.18	85.33
08/01/82		132.10	125.04	101.74	98.98	1.43	1.30	0.74	79.31		81.08		82.85	90.62	82.27	85.45
08/08/82		132.14	125.20	102.04	98.93	1.40	1.27	1.47	79.38		81.13		82.91	90.70	82.32	85.50
08/15/82		132.18	125.54	102.73	98.90	1.43	1.22	0.12	79.62		81.43		83.24	91.13	82.63	85.82
08/22/82		132.22	125.58	103.09	98.87	1.13	0.98	1.72	79.77		81.60		83.43	91.38	82.80	85.99
08/29/82		132.27	125.48	103.38	98.83	1.28	1.09	2.87	79.85		81.69		83.53	91.50	82.89	86.09
09/05/82		132.32	125.34	103.58	98.80	1.85	1.40	0.47	79.80		81.84		83.47	91.43	82.84	86.03
09/12/82		132.30	125.48	103.65	98.77	0.93	0.71	3.65	79.93		81.78		83.63	91.63	82.98	86.18
09/19/82		132.29	125.34	103.68	98.73	1.46	1.11	0.79	80.02		81.89		83.75	91.79	83.09	86.30
09/26/82		132.27	125.32	104.12	98.69	0.88	0.67	2.09	80.21		82.08		83.88	92.08	83.30	86.51
10/03/82		132.26	125.32	104.27	98.79	1.12	0.85	0.45	80.31		82.21		84.11	92.28	83.42	86.64
10/10/82		132.17	125.26	104.42	98.84	1.18	0.90	0.51	80.28		82.18		84.05	92.18	83.38	86.58
10/17/82		132.08	125.14	104.47	98.76	1.15	0.82	0.00	80.22		82.11		84.00	92.11	83.32	86.53
10/24/82		132.00	125.02	104.58	98.84	0.77	0.55	0.70	80.19		82.08		83.96	92.08	83.28	86.50
10/31/82		131.92	124.86	104.56	98.87	0.93	0.68	0.00	80.15		82.03		83.91	92.00	83.24	86.45
11/07/82		131.92	125.08	104.88	98.71	0.90	0.64	1.51	80.17		82.08		83.94	92.04	83.26	86.48
11/14/82		131.82	125.02	104.82	98.63	0.90	0.75	0.14	80.19		82.08		83.96	92.08	83.28	86.50
11/21/82		131.92	124.92	104.94	98.60	0.87	0.56	0.00	80.10		81.88		83.85	91.92	83.18	86.39
11/28/82		131.92	124.88	104.94	98.58	0.75	0.62	0.00	80.13		82.01		83.89	91.87	83.22	86.43
12/05/82		131.92	124.82	104.84	98.54	0.93	0.77	0.00	80.03		81.90		83.78	91.80	83.10	86.31
12/12/82		131.90	124.84	105.04	98.54	0.59	0.45	0.88	80.25		82.14		84.03	92.15	83.35	86.56
12/19/82		131.89	124.74	104.90	98.50	0.65	0.50	0.54	80.03		81.80		83.78	91.80	83.10	86.31
12/26/82		131.88	124.72	104.83	98.46	0.70	0.54	0.00	79.92		81.77		83.62	91.62	82.87	86.17
01/02/83		131.87	124.76	104.94	98.46	0.44	0.34	0.08	79.85		81.81		83.66	91.67	83.01	86.21
01/09/83		131.80	124.78	104.91	98.45	0.49	0.38	0.74	79.92		81.77		83.62	91.62	82.97	86.17
01/16/83		131.72	124.66	104.83	98.45	0.61	0.42	0.00	79.78		81.81		83.44	91.39	82.81	86.00
01/23/83		131.64	124.68	104.91	98.48	0.51	0.35	1.13	79.87		81.72		83.56	91.54	82.82	86.12
01/30/83		131.56	124.68	104.96	98.56	0.65	0.45	0.98	79.88		81.70		83.54	91.52	82.80	86.10
02/06/83		131.67	124.74	105.06	98.62	1.21	0.83	1.90	80.02		81.88		83.74	91.78	83.08	86.29
02/13/83		131.78	124.88	105.23	98.70	0.60	0.44	2.12	80.13		82.00		83.88	91.98	83.21	86.42
02/20/83		131.89	124.84	105.27	98.82	0.81	0.59	0.80	80.07		81.94		83.81	91.87	83.15	86.35
02/27/83		132.00	124.74	105.27	98.81	0.92	0.67	0.28	80.19		82.08		83.96	92.08	83.28	86.50
03/06/83		132.12	124.86	105.44	98.88	0.68	0.72	0.36	80.25		82.15		84.04	92.17	83.36	86.57
03/13/83		132.19	124.84	105.38	98.97	1.09	0.92	2.98	80.37		82.28		84.19	92.38	83.49	86.71
03/20/83		132.26	125.32	105.66	99.12	1.17	0.98	2.20	80.78		82.74		84.70	93.02	83.98	87.20
03/27/83		132.34	125.30	106.22	99.35	1.24	1.04	1.54	80.91		82.88		84.86	93.23	84.10	87.35
04/03/83		132.42	125.18	106.37	99.32	1.37	1.15	0.31	81.00		82.89		84.89	93.39	84.21	87.48
04/10/83		132.41	125.20	106.60	99.25	1.19	0.98	2.10	81.10		83.10		85.10	93.54	84.32	87.57
04/17/83		132.41	125.12	106.75	99.23	1.64	1.34	1.31	81.18		83.17		85.18	93.65	84.40	87.65
04/24/83		132.40	125.22	107.14	99.32	1.65	1.35	3.85	81.49		83.55		85.80	94.19	84.78	88.05
05/01/83		132.40	125.14	107.21	99.50	1.64	1.34	0.00	81.63		83.70		85.77	94.41	84.94	88.21
05/08/83		132.32	125.08	107.33	99.49	1.88	1.38	1.00	81.58		83.65		85.71	94.33	84.88	88.15
05/15/83		132.23	124.96	107.38	99.39	1.64	1.39	0.04	81.58		83.65		85.71	94.33	84.88	88.15
05/22/83		132.15	124.88	107.41	99.31	1.75	1.49	2.81	81.35		83.39		85.42	93.98	84.62	87.88
05/29/83		132.06	124.78	107.25	99.20	1.90	1.82	0.26	81.28		83.30		85.33	93.84	84.53	87.79
06/05/83		131.97	124.80	107.24	99.23	1.34	1.14	1.11	81.52		83.57		85.63	94.23	84.81	88.07
06/12/83		131.88	124.96	107.44	99.37	1.61	1.47	3.54	81.30		83.33		85.38	93.88	84.59	87.82
06/19/83		131.78	124.84	107.38	99.44	1.75	1.59	0.28	81.48		83.51		85.58	94.14	84.74	88.01
06/26/83		131.69	125.38	107.76	99.51	1.12	1.02	4.23	81.46		83.51		85.58	94.14	84.74	88.01
07/03/83		131.60	125.62	108.27	99.58	1.38	1.28	1.07	81.69		83.77		85.85	94.52	85.01	88.28
07/10/83		131.77	125.58	108.48	99.61	1.76	1.60	1.52	81.55		83.61		85.67	94.28	84.84	88.11
07/17/83		131.93	125.44	108.60	99.54	1.85	1.50	0.77	81.58		83.62		85.68	94.30	84.85	88.12
07/24/83		132.10	125.30	108.65	99.43	1.63	1.48	0.17	81.53		83.59		85.65	94.28	84.83	88.09
07/31/83		132.28	125.28	108.88	99.43	1.63	1.48	1.84	81.59		83.65		85.72	94.35	84.89	88.18
08/07/83		132.23	125.22	109.06	99.50	1.27	1.16	1.42	81.68		83.75		85.83	94.49	84.99	88.28
08/14/83		132.20	125.30	109.25	99.54	1.05	0.89	0.09	81.73		83.82		85.90	94.58	85.05	88.33
08/21/83		132.18	125.40	109.28	99.54	1.86	1.41	0.00	81.55		83.61		85.67	94.28	84.84	88.11
08/28/83		132.15	125.20	109.28	99.45	1.84	1.58	0.00	81.53		83.58		85.64	94.24	84.82	88.08
09/04/83		132.12	125.12	109.33	99.44	1.71	1.45	2.53	81.57		83.63		85.69	94.31	84.86	88.13
09/11/83		132.17	125.02	109.28	99.49	1.67	1.27	0.00	81.47		83.52		85.57	94.15	84.75	88.02
09/18/83		132.21	125.20	109.59	99.54	1.17	0.89	6.25	81.73		83.82		85.90	94.58	85.05	88.33

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
06/25/83		132.28	125.40	108.80	99.51	1.21	0.92	2.30	81.74		83.83		85.91	84.59	85.08	88.34
10/02/83		132.30	125.29	108.74	99.40	1.24	0.94	0.00	81.71		83.79		85.87	84.54	85.03	88.30
10/09/83		132.24	125.22	108.84	99.40	1.23	0.93	0.31	81.67		83.74		85.82	84.48	84.98	88.25
10/18/83		132.18	125.24	108.89	99.38	1.22	0.87	0.85	81.71		83.79		85.87	84.54	85.03	88.30
10/23/83		132.12	125.18	108.93	99.36	0.88	0.81	0.40	81.77		83.86		85.95	84.65	85.10	88.36
10/30/83		132.06	125.12	108.88	99.34	0.89	0.70	0.00	81.54		83.60		85.88	84.27	84.83	88.10
11/06/83		132.00	125.14	108.92	99.30	0.80	0.57	0.37	81.83		83.70		85.77	84.41	84.94	88.21
11/13/83		131.94	125.12	108.82	99.25	0.56	0.46	0.66	81.57		83.63		85.69	84.31	84.88	88.13
11/20/83		131.97	125.28	110.02	99.30	0.64	0.53	2.80	81.67		83.74		85.82	84.48	84.98	88.25
11/27/83		132.00	125.32	110.12	99.40	0.75	0.82	0.46	81.53		83.59		85.65	84.28	84.83	88.09
12/04/83		132.04	125.28	110.20	99.41	0.49	0.41	0.47	81.59		83.65		85.72	84.35	84.89	88.16
12/11/83		132.05	125.32	110.35	99.45	0.50	0.39	0.33	81.64		83.71		85.78	84.43	84.94	88.22
12/18/83		132.06	125.22	110.38	99.48	0.44	0.34	1.73	81.81		83.67		85.74	84.37	84.91	88.16
12/25/83		132.14	125.06	110.38	99.47	0.41	0.32	0.07	81.45		83.49		85.54	84.11	84.73	87.99
01/01/84		132.22	125.32	110.82	99.54	0.49	0.38	3.46	81.54		83.60		85.68	84.27	84.83	88.10
01/08/84		132.20	125.28	110.70	99.62	0.67	0.52	0.01	81.76		83.84		85.93	84.62	85.08	88.36
01/15/84		132.18	125.28	110.72	99.62	0.27	0.19	0.43	81.80		84.00		86.11	84.85	85.25	88.53
01/22/84		132.15	125.28	110.81	99.63	0.38	0.26	0.44	81.84		83.93		86.03	84.75	85.17	88.45
01/29/84		132.13	125.28	110.91	99.64	0.65	0.45	0.31	82.07		84.20		86.33	85.14	85.45	88.74
02/05/84		132.11	125.24	110.98	99.59	0.79	0.55	0.06	82.11		84.24		86.37	85.19	85.48	88.77
02/12/84		132.14	125.18	110.94	99.57	0.85	0.69	0.00	82.02		84.14		86.28	85.05	85.38	88.67
02/19/84		132.18	125.16	110.94	99.65	0.86	0.63	0.60	81.85		84.08		86.17	84.93	85.30	88.58
02/26/84		132.21	125.34	111.36	99.75	1.10	0.80	2.89	82.15		84.28		86.42	85.28	85.53	88.82
03/04/84		132.24	125.34	111.36	99.84	1.22	0.89	1.21	82.15		84.29		86.43	85.27	85.54	88.83
03/11/84		132.23	125.42	111.55	99.92	1.12	0.94	0.99	82.18		84.30		86.44	85.28	85.55	88.84
03/18/84		132.22	125.36	111.65	99.87	1.17	0.98	0.25	82.28		84.41		86.56	85.44	85.68	88.85
03/25/84		132.21	125.28	111.66	99.87	1.27	1.07	0.31	82.30		84.46		86.62	85.52	85.71	88.91
04/01/84		132.20	125.36	111.87	100.03	1.21	1.02	1.69	82.25		84.40		86.55	85.43	85.65	88.94
04/08/84		132.46	125.34	112.21	100.07	1.43	1.17	2.63	82.56		84.78		86.97	85.67	86.03	89.34
04/15/84		132.42	125.24	112.23	100.00	1.00	0.82	0.34	82.78		85.00		87.22	86.29	86.28	89.58
04/22/84		132.38	125.16	112.23	99.94	1.32	1.08	0.04	82.66		84.88		87.09	86.13	86.14	89.45
04/29/84		132.34	125.14	112.21	99.88	1.48	1.21	0.25	82.57		84.78		86.85	85.94	86.01	89.32
05/06/84		132.30	125.08	112.19	99.82	1.77	1.45	0.26	82.57		84.77		86.88	85.98	86.02	89.33
05/13/84		132.24	124.98	112.07	99.71	1.79	1.52	0.00	82.27		84.43		86.58	85.48	85.67	88.87
05/20/84		132.19	124.78	111.86	99.60	2.21	1.88	0.00	82.07		84.20		86.33	85.14	85.45	88.74
05/27/84		132.13	124.98	111.93	99.57	1.39	1.18	3.82	82.13		84.28		86.40	85.23	85.51	88.80
06/03/84		132.07	124.86	111.74	99.50	1.77	1.50	2.84	82.01		84.13		86.25	85.04	85.37	88.68
06/10/84		132.06	124.74	111.61	99.37	2.05	1.87	0.00	81.77		83.86		85.85	84.65	85.10	88.36
06/17/84		132.06	124.70	111.56	99.32	1.53	1.39	0.04	81.67		83.74		85.82	84.48	84.88	88.25
06/24/84		132.05	124.80	111.49	99.36	1.54	1.40	1.11	81.71		83.79		85.87	84.54	85.03	88.30
07/01/84		132.04	124.76	111.48	99.47	1.27	1.16	1.85	81.63		83.70		85.77	84.41	84.94	88.21
07/08/84		131.78	124.96	111.59	99.58	1.66	1.51	0.84	81.58		83.65		85.71	84.33	84.88	88.15
07/15/84		131.52	124.90	111.56	99.58	1.56	1.42	1.40	81.57		83.63		85.69	84.31	84.86	88.13
07/22/84		131.79	125.02	111.64	99.56	1.12	1.02	1.78	81.62		83.69		85.78	84.40	84.93	88.20
07/29/84		132.06	124.88	111.85	99.62	1.20	1.09	0.69	81.61		83.68		85.75	84.39	84.92	88.19
08/05/84		132.02	125.18	111.80	99.61	1.51	1.37	1.62	81.54		83.60		85.68	84.27	84.83	88.10
08/12/84		131.97	125.12	111.53	99.60	1.70	1.45	0.00	81.44		83.48		85.53	84.10	84.72	87.98
08/19/84		131.93	124.92	111.63	99.60	1.40	1.19	1.59	81.43		83.48		85.52	84.09	84.71	87.97
08/26/84		131.88	124.92	111.70	99.59	1.12	0.95	1.17	81.48		83.51		85.56	84.14	84.74	88.01
08/02/84		131.84	124.94	111.61	99.58	1.59	1.35	0.30	81.32		83.35		85.38	83.91	84.58	87.84
08/09/84		131.86	124.82	111.34	99.55	1.23	0.93	0.02	81.33		83.38		85.39	83.82	84.59	87.85
08/16/84		131.87	124.74	111.21	99.51	1.40	1.08	0.00	81.33		83.38		85.39	83.82	84.59	87.85
08/23/84		131.89	124.66	111.04	99.47	1.32	1.00	0.05	81.14		83.14		85.15	83.61	84.37	87.62
08/30/84		131.90	124.58	110.99	99.43	1.19	0.90	2.03	81.10		83.11		85.11	83.58	84.33	87.58
10/07/84		131.88	124.68	110.81	99.40	1.24	0.94	0.01	81.13		83.13		85.14	83.59	84.36	87.61
10/14/84		131.87	124.52	110.63	99.35	1.20	0.85	0.18	81.08		83.05		85.05	83.48	84.28	87.53
10/21/84		131.85	124.48	110.48	99.29	1.05	0.75	0.00	80.97		82.95		84.94	83.34	84.18	87.42
10/28/84		131.84	124.48	110.28	99.24	1.17	0.83	0.68	80.75		82.71		84.67	82.98	83.93	87.17
11/04/84		131.82	124.79	110.48	99.27	0.85	0.80	1.63	80.83		82.79		84.76	83.10	84.01	87.25
11/11/84		131.81	124.68	110.20	99.29	1.02	0.85	0.73	80.95		82.94		84.82	83.31	84.16	87.40
11/18/84		131.79	124.82	110.05	99.23	0.80	0.68	0.00	80.92		82.90		84.88	83.28	84.12	87.37
11/25/84		131.78	124.60	109.87	99.22	0.45	0.37	1.28	80.85		82.82		84.79	83.14	84.04	87.28
12/02/84		131.76	124.58	109.87	99.24	0.58	0.48	0.18	80.79		82.78		84.72	83.05	83.98	87.21
12/09/84		131.75	124.60	109.78	99.21	0.51	0.39	0.41	80.71		82.67		84.62	82.92	83.89	87.12
12/16/84		131.74	124.60	109.66	99.17	0.53	0.41	0.01	80.68		82.62		84.57	82.85	83.84	87.07
12/23/84		131.74	124.60	109.53	99.16	0.80	0.48	0.01	80.60		82.53		84.47	82.73	83.75	86.98
12/30/84		131.73	124.58	109.42	99.13	0.59	0.45	0.01	80.56		82.48		84.42	82.68	83.70	86.93
01/06/85		131.72	124.58	109.30	99.07	0.85	0.50	0.54	80.45		82.37		84.29	82.49	83.58	86.81
01/13/85		131.67	124.48	109.13	99.01	0.59	0.41	0.00	80.27		82.16		84.08	82.19	83.37	86.59
01/20/85		131.63	124.32	108.96	98.94	0.80	0.41	0.24	80.34		82.25		84.15	82.31	83.46	86.66

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
01/27/85		131.58	124.28	108.78	98.98	0.79	0.55	0.22	80.05		81.82		83.78	81.84	83.13	86.34
02/03/85		131.63	124.28	108.70	98.90	0.73	0.50	0.35	80.14		82.02		83.60	81.89	83.23	86.44
02/10/85		131.67	124.36	108.56	98.91	0.83	0.46	1.53	79.85		81.81		83.66	81.87	83.01	86.21
02/17/85		131.85	124.34	108.41	98.91	0.93	0.68	0.29	79.82		81.77		83.62	81.82	82.97	86.17
02/24/85		131.64	124.30	108.34	98.86	1.06	0.77	0.00	79.85		81.69		83.53	81.50	82.89	86.09
03/03/85		131.62	124.30	108.15	98.83	1.14	0.83	0.06	79.79		81.63		83.48	81.41	82.83	86.02
03/10/85		131.58	124.20	107.94	98.74	1.44	1.21	0.00	79.54		81.34		83.14	81.00	82.53	85.72
03/17/85		131.54	124.20	107.76	98.68	1.11	0.93	1.05	79.60		81.41		83.22	81.10	82.61	85.60
03/24/85		131.50	124.20	107.64	98.67	1.22	1.02	0.26	79.38		81.18		82.94	80.74	82.35	85.33
03/31/85		131.48	124.10	107.44	98.56	1.81	1.35	0.00	79.19		80.94		82.70	80.43	82.13	85.30
04/07/85		131.46	124.00	107.24	98.47	1.52	1.25	0.55	79.15		80.90		82.65	80.36	82.09	85.26
04/14/85		131.45	124.08	107.11	98.49	1.41	1.18	4.01	79.24		81.00		82.76	80.51	82.19	85.36
04/21/85		131.45	124.06	106.99	98.50	1.60	1.31	0.14	79.14		80.89		82.84	80.35	82.08	85.25
04/28/85		131.44	124.00	106.81	98.39	2.02	1.66	0.00	78.83		80.65		82.37	80.00	81.83	84.99
05/05/85		131.44	123.82	106.59	98.28	1.78	1.44	0.84	78.83		80.65		82.37	80.00	81.83	84.99
05/12/85		131.39	123.82	106.31	98.17	1.76	1.50	0.00	78.60		80.28		81.86	80.47	81.46	84.81
05/19/85		131.33	123.78	106.14	98.07	2.24	1.90	0.14	78.38		80.03		81.66	80.10	81.20	84.34
05/26/85		131.28	123.78	105.91	97.98	1.67	1.42	2.39	78.31		79.85		81.59	80.69	81.12	84.28
06/02/85		131.22	123.60	105.61	97.81	2.03	1.73	0.06	78.04		79.65		81.26	80.56	80.82	83.94
06/09/85		131.29	123.48	105.36	97.67	2.28	2.07	0.16	77.85		79.43		81.01	80.23	80.59	83.71
06/16/85		131.36	123.62	105.45	97.67	1.75	1.59	2.85	77.99		79.59		81.19	80.47	80.75	83.88
06/23/85		131.43	123.50	105.21	97.72	1.59	1.45	0.22	77.81		79.38		80.96	80.17	80.54	83.68
06/30/85		131.50	123.58	105.22	97.73	1.47	1.34	3.23	77.88		79.45		81.03	80.28	80.61	83.73
07/07/85		131.56	123.68	104.83	97.69	1.46	1.33	0.49	77.72		79.28		80.85	80.03	80.44	83.56
07/14/85		131.62	123.62	104.85	97.68	1.52	1.38	0.25	77.69		79.29		80.92	80.67	80.42	83.53
07/21/85		131.68	123.94	104.62	97.78	1.36	1.24	0.78	77.77		79.35		80.82	80.12	80.51	83.62
07/28/85		131.74	124.20	104.69	98.03	1.34	1.22	0.04	77.88		79.48		81.05	80.29	80.63	83.75
08/04/85		131.80	124.32	104.90	98.17	1.25	1.14	4.48	78.00		79.60		81.20	80.48	80.76	83.89
08/11/85		132.01	124.88	105.24	98.52	1.27	1.08	1.33	78.24		79.88		81.51	80.88	81.05	84.18
08/18/85		132.21	124.78	105.41	98.82	1.41	1.20	3.41	78.43		80.09		81.75	80.19	81.27	84.41
08/25/85		132.42	125.04	105.64	99.13	1.18	1.00	3.44	78.77		80.47		82.17	80.74	81.65	84.80
09/01/85		132.62	125.00	106.34	99.48	1.40	1.19	5.15	79.27		81.03		82.80	80.56	82.22	85.40
09/08/85		132.62	125.30	106.64	99.65	1.06	0.82	0.89	79.61		81.42		83.23	81.12	82.62	85.81
09/15/85		132.63	125.36	107.01	99.67	1.43	1.09	0.41	79.80		81.64		83.47	81.43	82.84	86.03
09/22/85		132.63	125.30	107.35	99.69	1.17	0.89	1.42	79.88		81.73		83.57	81.56	82.93	86.13
09/29/85		132.63	125.22	107.45	99.72	1.32	1.00	0.00	79.78		81.59		83.42	81.36	82.79	85.99
10/06/85		132.62	125.25	107.56	99.67	1.16	0.88	0.26	79.60		81.74		83.59	81.58	82.94	86.15
10/13/85		132.60	125.34	107.78	99.63	1.04	0.74	0.64	79.67		81.82		83.68	81.70	83.03	86.23
10/20/85		132.57	125.36	107.88	99.61	1.08	0.77	0.03	79.80		81.75		83.60	81.60	82.95	86.18
10/27/85		132.55	125.37	108.08	99.60	1.07	0.78	0.50	79.99		81.65		83.71	81.74	83.05	86.26
11/03/85		132.92	125.42	108.23	99.65	1.03	0.73	5.29	80.09		81.97		83.84	81.91	83.17	86.38
11/10/85		132.45	125.32	108.28	99.63	1.04	0.86	0.07	79.99		81.65		83.71	81.74	83.05	86.28
11/17/85		132.39	125.30	108.38	99.57	0.81	0.67	0.08	79.98		81.81		83.67	81.69	83.02	86.22
11/24/85		132.32	125.28	108.47	99.55	0.83	0.52	0.79	80.05		81.91		83.78	81.83	83.12	86.33
12/01/85		132.22	125.18	108.56	99.49	0.60	0.50	0.00	80.07		81.94		83.81	81.67	83.15	86.35
12/08/85		132.29	125.00	108.42	99.41	0.63	0.49	0.06	79.63		81.78		83.63	81.63	82.88	86.18
12/15/85		132.08	125.02	108.45	99.38	0.75	0.58	0.73	79.65		81.69		83.53	81.50	82.89	86.09
12/22/85		132.42	124.92	108.42	99.33	0.49	0.38	0.00	79.94		81.79		83.64	81.65	82.99	86.19
12/29/85		132.49	124.88	108.38	99.37	0.49	0.38	0.13	79.67		81.72		83.56	81.54	82.92	86.12
01/05/86		132.56	124.96	108.60	99.44	0.85	0.65	2.54	79.80		81.75		83.60	81.60	82.85	86.16
01/12/86		132.20	125.10	108.63	99.54	0.62	0.43	3.07	80.03		81.80		83.76	81.80	83.10	86.31
01/19/86		132.17	124.94	108.65	99.64	0.55	0.38	0.35	80.33		82.24		84.14	82.30	83.45	86.67
01/26/86		132.15	124.84	108.60	99.63	0.85	0.59	0.34	80.30		82.20		84.10	82.24	83.41	86.63
02/02/86		132.12	124.83	108.96	99.60	0.75	0.52	0.00	80.08		81.85		83.82	81.88	83.16	86.36
02/09/86		132.18	124.89	108.23	99.80	0.89	0.50	1.78	80.25		82.15		84.04	82.17	83.35	86.57
02/16/86		132.23	125.28	108.36	99.89	0.66	0.63	2.83	80.55		82.48		84.41	82.65	83.69	86.92
02/23/86		132.26	125.20	108.52	99.85	0.87	0.64	0.74	80.63		82.57		84.51	82.78	83.78	87.02
03/02/86		132.34	125.16	108.56	99.82	0.85	0.69	0.24	80.48		82.40		84.32	82.53	83.81	86.84
03/09/86		132.30	125.08	108.61	99.89	1.01	0.85	0.22	80.54		82.47		84.40	82.63	83.89	86.91
03/16/86		132.31	125.40	110.07	100.08	1.20	1.01	3.00	80.88		82.66		84.83	83.19	84.08	87.32
03/23/86		132.31	125.29	110.21	100.23	1.15	0.97	0.28	80.82		82.80		84.86	83.26	84.12	87.37
03/30/86		132.32	125.15	110.27	100.15	1.50	1.28	0.01	81.01		83.00		84.89	83.40	84.22	87.47
04/06/86		132.22	125.02	110.25	100.08	1.82	1.49	0.00	80.79		82.75		84.71	83.04	83.97	87.20
04/13/86		132.12	124.86	110.03	99.93	1.90	1.56	0.39	80.67		82.65		84.62	83.18	84.07	87.31
04/20/86		132.02	124.80	110.11	99.79	1.53	1.25	0.00	80.56		82.49		84.42	82.68	83.70	86.93
04/27/86		131.86	124.78	109.91	99.71	1.81	1.57	0.24	80.41		82.33		84.24	82.43	83.54	86.78
05/04/86		131.80	124.89	109.70	99.58	2.20	1.80	0.00	80.22		82.11		84.00	82.11	83.32	86.53
05/11/86		131.86	124.59	109.52	99.47	1.77	1.50	0.00	80.09		81.97		83.84	81.91	83.17	86.38
05/18/86		131.86	124.47	109.43	99.47	1.79	1.52	0.00	79.87		81.72		83.56	81.54	82.92	86.12
05/25/86		131.84	124.50	109.27	99.46	1.70	1.45	0.98	79.84		81.68		83.52	81.49	82.86	86.08

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
06/01/86		131.82	124.40	108.08	99.35	2.07	1.78	0.19	79.74		81.58		83.39	91.32	82.78	85.98
06/08/86		131.80	124.34	108.82	99.28	1.81	1.65	0.42	79.59		81.39		83.20	91.08	82.59	85.78
06/15/86		131.78	124.38	108.70	99.18	1.59	1.45	3.41	79.63		81.45		83.28	91.15	82.64	85.83
06/22/86		131.88	125.20	108.35	99.25	1.53	1.39	1.47	79.69		81.85		83.71	91.74	83.05	86.28
06/29/86		132.00	125.10	108.31	99.32	1.81	1.47	0.00	79.84		81.88		83.92	91.49	82.88	86.08
07/06/86		132.12	125.08	108.28	99.39	1.84	1.49	1.09	79.81		81.64		83.48	91.44	82.64	86.04
07/13/86		132.03	125.10	108.28	99.40	1.45	1.32	1.48	79.79		81.63		83.46	91.41	82.63	86.02
07/20/86		131.83	124.94	108.09	99.44	2.05	1.87	0.00	79.58		81.37		83.17	91.04	82.58	85.75
07/27/86		131.84	124.89	108.99	99.34	1.81	1.47	4.10	79.63		81.44		83.25	91.14	82.63	85.82
08/03/86		131.76	124.80	108.96	99.37	1.42	1.29	0.74	79.51		81.30		83.10	90.95	82.50	85.86
08/10/86		131.82	124.92	108.97	99.50	1.34	1.14	1.12	79.51		81.30		83.10	90.95	82.50	85.86
08/17/86		131.87	124.98	108.99	99.55	1.21	1.03	2.83	79.62		81.43		83.24	91.13	82.63	85.82
08/24/86		131.83	124.99	108.01	99.58	1.85	1.40	2.93	79.55		81.38		83.16	91.02	82.55	85.74
08/31/86		131.82	124.97	108.85	99.57	1.18	1.00	1.17	79.50		81.29		83.09	90.93	82.49	85.67
09/07/86		131.85	124.90	108.83	99.58	1.43	1.09	1.25	79.46		81.25		83.04	90.87	82.44	85.63
09/14/86		131.78	124.78	108.78	99.49	1.45	1.10	1.57	79.49		81.29		83.08	90.92	82.48	85.86
09/21/86		131.72	124.74	108.58	99.40	1.33	1.01	0.11	79.35		81.12		82.90	90.69	82.31	85.49
09/28/86		131.65	124.62	108.42	99.30	1.30	0.99	0.17	79.19		80.94		82.70	90.43	82.13	85.30
10/05/86		131.58	124.54	108.22	99.19	1.20	0.91	0.00	79.10		80.85		82.59	90.28	82.03	85.20
10/12/86		131.70	124.58	108.09	99.15	0.94	0.87	2.89	79.17		80.83		82.68	90.40	82.11	85.28
10/19/86		131.64	124.52	107.84	99.18	1.17	0.83	0.00	79.08		80.80		82.54	90.22	81.99	85.15
10/26/86		131.58	124.29	107.81	99.09	0.98	0.70	0.14	79.09		80.84		82.58	90.27	82.02	85.19
11/02/86		131.52	124.30	107.51	99.00	0.50	0.38	1.08	79.05		80.79		82.53	90.21	81.98	85.14
11/09/86		131.53	124.28	107.31	98.90	0.73	0.61	0.00	78.93		80.68		82.38	90.01	81.84	85.00
11/16/86		131.54	124.18	107.11	98.85	0.78	0.65	0.71	78.94		80.67		82.39	90.03	81.85	85.01
11/23/86		131.54	124.11	108.82	98.78	0.72	0.60	0.11	78.85		80.57		82.28	89.88	81.75	84.91
11/30/86		131.55	124.28	107.03	98.88	0.88	0.56	3.14	78.97		80.70		82.43	90.08	81.89	85.05
12/07/86		131.56	124.30	108.86	98.82	0.70	0.54	0.80	78.85		80.56		82.27	89.87	81.74	84.90
12/14/86		131.62	124.47	108.86	98.91	0.79	0.61	1.31	78.85		80.57		82.28	89.88	81.75	84.91
12/21/86		131.68	124.48	108.71	98.88	0.45	0.35	0.05	78.80		80.62		82.34	89.86	81.80	84.96
12/28/86		131.74	124.44	108.84	98.88	0.44	0.34	1.14	78.93		80.65		82.37	90.00	81.83	84.99
01/04/87		131.80	124.70	108.89	98.87	0.55	0.42	1.87	79.09		80.83		82.57	90.28	82.01	85.18
01/11/87		131.87	124.64	108.85	99.01	0.81	0.42	0.18	79.03		80.78		82.50	90.17	81.85	85.12
01/18/87		131.84	124.70	108.59	99.01	0.51	0.35	0.38	79.12		80.88		82.61	90.31	82.05	85.22
01/25/87		132.00	124.85	108.71	99.05	0.52	0.36	2.47	79.19		80.94		82.70	90.43	82.13	85.30
02/01/87		132.07	124.80	108.87	99.05	0.70	0.48	0.00	79.24		81.00		82.76	90.51	82.19	85.36
02/08/87		132.14	124.85	108.86	99.11	0.83	0.46	1.98	79.49		81.29		83.08	90.92	82.48	85.68
02/15/87		132.26	125.00	108.93	99.22	0.94	0.69	0.00	79.55		81.35		83.15	91.01	82.54	85.73
02/22/87		132.38	125.24	107.25	99.38	0.89	0.65	3.39	79.75		81.58		83.41	91.35	82.78	85.98
03/01/87		132.50	125.28	107.58	99.52	1.10	0.80	1.81	80.05		81.92		83.79	91.84	83.13	86.34
03/08/87		132.49	125.45	108.01	99.61	1.03	0.87	1.35	80.41		82.33		84.24	92.43	83.54	86.78
03/15/87		132.49	125.35	108.11	99.63	1.00	0.84	0.03	80.53		82.46		84.39	92.62	83.66	86.80
03/22/87		132.59	125.22	108.28	99.58	0.90	0.70	0.12	80.78		82.72		84.68	93.00	83.94	87.18
03/29/87		132.70	125.62	108.82	99.74	1.05	0.88	4.78	80.85		82.94		84.92	93.31	84.16	87.40
04/05/87		132.80	125.49	108.09	99.89	1.15	0.94	2.48	81.30		83.33		85.36	93.88	84.56	87.82
04/12/87		132.50	125.38	108.30	99.84	1.47	1.21	0.00	81.30		83.32		85.35	93.87	84.55	87.81
04/19/87		132.40	125.34	108.52	99.85	1.52	1.25	0.23	81.37		83.40		85.44	93.88	84.63	87.89
04/26/87		132.30	125.20	108.58	99.78	1.72	1.41	0.00	81.20		83.21		85.23	93.71	84.44	87.70
05/03/87		132.20	125.14	108.80	99.60	2.22	1.82	0.00	80.88		82.98		84.85	93.35	84.19	87.43
05/10/87		132.17	125.08	108.74	99.57	1.48	1.24	0.04	80.97		82.85		84.94	93.34	84.18	87.42
05/17/87		132.13	125.24	108.74	99.63	1.38	1.17	1.01	80.85		82.94		84.82	93.31	84.16	87.40
05/24/87		132.08	125.08	108.68	99.61	1.59	1.35	3.04	80.83		82.80		84.77	93.11	84.02	87.28
05/31/87		132.04	125.02	108.60	99.53	1.91	1.62	0.18	80.75		82.70		84.69	92.97	83.92	87.18
06/07/87		132.02	125.00	108.85	99.49	1.72	1.57	0.09	80.58		82.49		84.42	92.68	83.70	86.93
06/14/87		132.01	125.05	108.81	99.44	1.83	1.67	0.19	80.44		82.35		84.27	92.47	83.57	86.79
06/21/87		131.99	125.07	108.55	99.35	1.77	1.61	0.00	80.25		82.15		84.04	92.17	83.36	86.57
06/28/87		131.98	125.02	108.51	99.27	1.34	1.22	2.49	80.20		82.08		83.97	92.08	83.29	86.51
07/05/87		131.98	125.02	108.41	99.28	1.48	1.35	0.43	80.08		81.95		83.82	91.88	83.15	86.38
07/12/87		131.84	125.00	108.49	99.30	1.87	1.70	1.54	80.08		81.93		83.80	91.86	83.14	86.34
07/19/87		131.92	124.90	108.38	99.30	1.36	1.24	0.40	79.98		81.81		83.67	91.69	83.02	86.22
07/26/87		131.90	124.80	108.24	99.18	2.29	2.08	1.48	79.82		81.68		83.50	91.47	82.88	86.08
08/02/87		131.88	124.80	108.10	98.98	1.47	1.34	1.08	79.72		81.55		83.37	91.30	82.74	85.94
08/09/87		131.92	124.79	108.99	99.61	1.50	1.28	0.53	79.43		81.22		83.01	90.83	82.42	85.60
08/16/87		131.97	125.14	108.34	98.85	0.83	0.79	4.03	79.79		81.63		83.46	91.41	82.83	86.02
08/23/87		132.01	125.36	108.43	98.93	1.68	1.43	0.00	79.71		81.54		83.39	91.28	82.73	85.93
08/30/87		132.08	125.23	108.36	98.87	1.71	1.45	0.03	79.54		81.34		83.14	91.00	82.53	85.72
09/06/87		132.10	125.18	108.36	98.90	0.91	0.89	0.22	79.84		81.46		83.27	91.17	82.65	85.84
09/13/87		132.00	125.12	108.38	98.88	1.40	1.08	2.03	79.59		81.40		83.21	91.09	82.60	85.79
09/20/87		131.90	125.02	108.24	98.78	1.33	1.01	1.28	79.45		81.24		83.03	90.88	82.43	85.62
09/27/87		131.80	124.82	108.97	98.63	1.24	0.94	0.00	79.24		81.01		82.77	90.52	82.20	85.37

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
10/04/87		131.70	124.84	108.81	98.45	1.47	1.12	0.43	79.18		80.84		82.69	90.41	82.12	85.30
10/11/87		131.50	124.51	108.81	98.25	1.21	0.86	0.00	79.14		80.89		82.68	90.35	82.08	85.25
10/18/87		131.43	124.32	108.31	98.13	1.34	0.95	0.00	79.01		80.74		82.47	90.13	81.82	85.09
10/25/87		131.37	124.18	108.10	98.01	1.07	0.78	0.00	78.80		80.50		82.21	89.79	81.69	84.84
11/01/87		131.30	124.06	107.91	97.89	1.18	0.82	0.00	78.71		80.41		82.10	89.65	81.58	84.74
11/08/87		131.37	124.26	107.88	98.07	0.90	0.75	1.42	78.79		80.50		82.20	89.78	81.68	84.83
11/15/87		131.43	124.48	107.88	98.12	0.90	0.75	0.00	78.71		80.41		82.10	89.65	81.58	84.74
11/22/87		131.50	124.48	107.70	98.15	1.09	0.90	2.78	78.74		80.44		82.14	89.70	81.62	84.78
11/28/87		131.56	124.48	107.59	98.13	0.71	0.59	0.13	78.83		80.54		82.25	89.84	81.72	84.88
12/05/87		131.63	124.45	107.48	98.05	0.88	0.86	0.00	78.43		80.09		81.75	89.19	81.27	84.41
12/13/87		131.63	124.38	107.19	98.04	0.68	0.52	0.05	78.43		80.06		81.74	89.18	81.28	84.40
12/20/87		131.63	124.54	107.20	98.07	0.84	0.49	0.98	78.39		80.05		81.70	89.13	81.22	84.38
12/27/87		131.62	124.54	107.08	98.03	0.58	0.43	0.02	78.42		80.07		81.73	89.17	81.25	84.39
01/03/88		131.62	124.48	108.84	97.88	0.45	0.35	0.13	78.38		80.01		81.68	89.08	81.18	84.32
01/10/88		131.62	124.44	108.81	97.83	0.45	0.31	1.23	78.26		79.89		81.53	88.91	81.09	84.20
01/17/88		131.63	124.38	108.61	97.83	0.63	0.43	0.02	78.22		79.85		81.48	88.84	81.02	84.15
01/24/88		131.75	124.60	108.80	98.04	0.67	0.48	2.92	78.41		80.06		81.72	89.16	81.24	84.38
01/31/88		131.88	124.70	108.71	98.18	0.58	0.40	0.94	78.43		80.09		81.75	89.19	81.27	84.41
02/07/88		131.82	124.70	108.67	98.14	0.74	0.54	0.42	78.42		80.07		81.73	89.17	81.25	84.39
02/14/88		131.88	124.68	108.84	98.14	0.82	0.60	0.25	78.40		80.08		81.71	89.14	81.23	84.37
02/21/88		132.00	124.88	108.83	98.28	0.58	0.42	4.08	78.84		80.32		82.01	89.53	81.50	84.65
02/28/88		132.04	124.88	108.84	98.38	1.03	0.75	0.00	78.73		80.42		82.12	89.67	81.60	84.76
03/06/88		132.19	125.20	108.97	98.44	0.91	0.78	2.98	78.83		80.68		82.38	90.01	81.84	85.00
03/13/88		132.33	125.40	107.37	98.59	1.18	0.99	3.24	79.28		81.04		82.81	90.57	82.23	85.41
03/20/88		132.28	125.42	107.58	98.60	1.29	1.08	1.58	79.30		81.07		82.84	90.61	82.26	85.44
03/27/88		132.23	125.40	107.78	98.61	1.37	1.00	0.00	79.43		81.21		83.00	90.82	82.41	85.59
04/03/88		132.18	125.28	107.84	98.57	1.61	1.32	0.00	79.51		81.30		83.10	90.85	82.50	85.68
04/10/88		132.10	125.10	107.81	98.44	1.40	1.15	0.30	79.28		81.05		82.82	90.58	82.24	85.42
04/17/88		132.01	124.88	107.78	98.33	1.28	1.03	0.82	79.19		80.94		82.70	90.43	82.13	85.30
04/24/88		131.83	124.82	107.69	98.28	1.51	1.24	0.13	79.07		80.81		82.55	90.23	82.00	85.16
05/01/88		131.84	124.80	107.71	98.16	1.48	1.20	0.51	79.05		80.79		82.53	90.21	81.88	85.14
05/08/88		131.83	124.84	107.40	98.03	1.87	1.58	0.00	78.74		80.43		82.13	89.89	81.61	84.77
05/15/88		131.82	124.80	107.47	98.00	1.51	1.28	1.58	78.83		80.65		82.37	90.00	81.83	84.88
05/22/88		131.82	124.84	107.34	98.07	1.87	1.59	0.00	78.56		80.28		81.84	89.44	81.44	84.59
05/29/88		131.81	124.78	107.25	98.02	1.78	1.51	1.17	78.57		80.24		81.82	89.41	81.42	84.57
06/05/88		131.80	124.84	107.11	97.90	2.07	1.88	0.00	78.43		80.09		81.75	89.19	81.27	84.41
06/12/88		131.71	124.52	106.88	97.75	1.55	1.41	1.08	78.36		80.01		81.68	89.08	81.18	84.32
06/19/88		131.81	124.40	106.88	97.80	1.85	1.77	0.00	78.01		79.82		81.22	88.51	80.78	83.91
06/26/88		131.52	124.26	106.38	97.49	1.38	1.24	1.03	77.88		79.47		81.08	88.30	80.64	83.75
07/03/88		131.44	124.10	106.19	97.34	1.47	1.34	1.25	77.84		79.42		81.00	88.22	80.58	83.70
07/10/88		131.41	124.00	105.88	97.20	1.84	1.77	0.00	77.59		79.14		80.89	87.82	80.30	83.40
07/17/88		131.38	124.00	105.78	97.23	1.80	1.48	1.77	77.69		79.28		80.82	87.89	80.42	83.53
07/24/88		131.35	123.88	105.58	97.28	1.22	1.11	1.89	77.73		79.30		80.87	88.05	80.48	83.57
07/31/88		131.32	123.90	105.34	97.20	1.50	1.37	0.13	77.88		79.24		80.80	87.98	80.40	83.51
08/07/88		131.47	123.82	105.23	97.14	1.53	1.30	2.02	77.81		79.16		80.71	87.84	80.32	83.42
08/14/88		131.62	124.30	105.84	97.28	1.39	1.18	3.39	77.72		79.28		80.85	88.03	80.44	83.56
08/21/88		131.85	124.36	105.56	97.38	1.40	1.19	3.87	77.85		79.43		81.01	88.23	80.59	83.71
08/28/88		131.89	124.44	105.58	97.39	1.27	1.08	2.99	77.88		79.46		81.05	88.29	80.63	83.75
09/04/88		131.72	124.68	106.00	97.80	1.44	1.08	2.58	78.13		79.75		81.37	88.70	80.82	84.05
09/11/88		131.82	125.54	106.51	98.28	1.11	0.84	8.59	79.12		80.86		82.61	90.31	82.05	85.22
09/18/88		131.83	125.52	106.85	98.49	1.38	1.03	0.09	79.47		81.28		83.05	90.88	82.45	85.64
09/25/88		132.03	125.48	107.18	98.65	1.21	0.92	0.77	79.83		81.45		83.28	91.15	82.64	85.83
10/02/88		132.13	125.46	107.48	98.71	1.04	0.78	0.84	79.85		81.69		83.53	91.50	82.89	86.09
10/09/88		132.02	125.15	107.40	98.67	1.28	0.89	0.98	79.78		81.62		83.45	91.40	82.82	86.01
10/16/88		131.95	124.88	107.28	98.55	1.08	0.75	0.00	79.71		81.54		83.38	91.28	82.73	85.93
10/23/88		131.88	124.78	107.21	98.45	1.33	0.94	0.00	79.71		81.53		83.35	91.27	82.73	85.92
10/30/88		131.81	124.80	107.11	98.41	1.00	0.71	0.00	79.58		81.38		83.19	91.08	82.58	85.77
11/06/88		131.74	124.82	107.04	98.37	0.84	0.70	0.81	79.87		81.49		83.31	91.22	82.69	85.88
11/13/88		131.78	124.82	106.95	98.33	0.81	0.67	0.00	79.51		81.31		83.11	90.88	82.51	85.69
11/20/88		131.82	124.82	106.91	98.29	0.72	0.60	0.00	79.54		81.34		83.14	91.00	82.53	85.72
11/27/88		131.88	124.82	107.02	98.34	0.74	0.61	1.99	79.63		81.44		83.25	91.14	82.63	85.82
12/04/88		131.90	124.82	106.90	98.28	0.85	0.50	0.40	79.81		81.42		83.23	91.12	82.62	85.81
12/11/88		131.80	124.86	106.91	98.27	0.55	0.42	0.00	79.83		81.45		83.28	91.15	82.64	85.83
12/18/88		131.79	124.83	106.82	98.28	0.40	0.31	1.33	79.43		81.22		83.01	90.83	82.42	85.60
12/25/88		131.78	124.80	106.74	98.28	0.54	0.42	0.00	79.51		81.30		83.10	90.85	82.50	85.68
01/01/89		131.78	124.78	106.88	98.23	0.57	0.44	0.00	79.53		81.33		83.13	90.89	82.52	85.71
01/08/89		131.77	124.74	106.52	98.18	0.77	0.53	0.00	79.32		81.10		82.87	90.65	82.29	85.47
01/15/89		131.77	124.72	106.38	98.13	0.49	0.34	0.00	79.22		80.98		82.74	90.48	82.17	85.34
01/22/89		131.78	124.70	106.31	98.11	0.78	0.52	1.14	79.32		81.09		82.88	90.64	82.28	85.48
01/29/89		131.76	124.70	106.24	98.10	0.78	0.52	0.01	79.16		80.92		82.67	90.39	82.11	85.28

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (Inches)	Lake Evaporation (Inches)	Precipitation (Inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
02/05/89		131.70	124.70	106.09	98.07	0.86	0.63	0.00	79.05		80.78		82.52	90.19	81.97	85.13
02/12/89		131.64	124.64	106.10	97.98	1.04	0.78	0.00	78.85		80.57		82.28	89.88	81.75	84.91
02/19/89		131.63	124.54	105.89	97.97	0.88	0.64	0.00	78.81		80.51		82.22	89.80	81.69	84.85
02/26/89		131.63	124.52	105.63	97.89	1.00	0.73	0.84	78.82		80.31		81.89	89.51	81.48	84.83
03/05/89		131.62	124.62	105.59	97.88	0.97	0.81	1.26	78.75		80.45		82.15	89.71	81.63	84.78
03/12/89		131.58	124.52	105.43	97.88	0.92	0.77	0.00	78.82		80.31		81.89	89.51	81.48	84.83
03/19/89		131.53	124.48	105.26	97.83	1.57	1.32	0.00	78.32		79.97		81.61	89.01	81.14	84.27
03/26/89		131.49	124.42	105.10	97.79	1.18	0.99	0.30	78.38		80.01		81.66	89.08	81.18	84.32
04/02/89		131.44	124.34	104.93	97.70	1.65	1.35	0.00	78.09		79.71		81.32	88.64	80.87	84.00
04/09/89		131.43	124.28	104.80	97.63	1.55	1.27	0.31	78.10		79.71		81.33	88.65	80.88	84.01
04/16/89		131.42	124.20	104.50	97.52	1.05	0.86	1.02	78.08		79.69		81.30	88.61	80.85	83.98
04/23/89		131.41	124.14	104.33	97.42	1.37	1.12	0.01	77.81		79.39		80.97	88.18	80.55	83.67
04/30/89		131.40	123.98	104.15	97.32	1.88	1.54	0.00	77.58		79.13		80.68	87.81	80.29	83.40
05/07/89		131.35	123.90	103.93	97.22	1.85	1.40	0.77	77.62		79.18		80.73	87.67	80.33	83.44
05/14/89		131.30	123.82	103.70	97.07	1.85	1.57	0.30	77.46		78.89		80.52	87.60	80.14	83.24
05/21/89		131.25	123.72	103.50	96.99	1.92	1.63	0.02	77.22		78.73		80.23	87.22	79.88	82.97
05/28/89		131.20	123.62	103.29	96.89	1.70	1.45	0.84	77.03		78.50		79.96	87.55	79.65	82.73
06/04/89		131.08	123.51	103.17	96.84	2.21	2.01	0.05	76.82		78.27		79.72	86.58	79.41	82.49
06/11/89		131.07	123.48	102.98	96.82	1.53	1.39	1.29	76.98		78.43		79.90	86.79	79.58	82.68
06/18/89		131.06	123.34	102.91	96.78	1.88	1.71	1.33	76.82		78.27		79.72	86.58	79.41	82.49
06/25/89		131.05	123.34	102.80	96.75	1.71	1.58	5.17	76.94		78.40		79.87	86.75	79.55	82.63
07/02/89		131.04	123.40	102.83	96.78	1.64	1.49	3.22	76.85		78.42		79.89	87.20	79.57	82.65
07/09/89		131.04	123.34	102.96	96.81	1.57	1.43	0.02	76.78		78.22		79.67	86.49	79.37	82.44
07/16/89		131.04	123.40	102.84	96.78	1.87	1.52	0.18	76.82		78.27		79.72	86.58	79.41	82.49
07/23/89		131.04	123.38	102.73	96.78	1.47	1.34	3.39	76.78		78.20		79.64	86.46	79.34	82.41
07/30/89		131.05	123.38	102.63	96.70	1.85	1.68	0.04	76.70		78.14		79.57	87.08	79.27	82.35
08/06/89		131.05	123.24	102.44	96.55	1.68	1.43	0.75	76.64		78.08		79.49	86.28	79.20	82.27
08/13/89		131.05	123.14	102.25	96.45	1.29	1.10	2.26	76.65		78.08		79.51	86.29	79.22	82.29
08/20/89		131.04	123.14	102.06	96.39	1.51	1.28	1.00	76.60		78.02		79.44	86.20	79.18	82.22
08/27/89		131.04	123.00	101.88	96.35	1.80	1.53	3.06	76.61		78.04		79.46	86.58	79.17	82.24
09/03/89		131.04	122.40	101.89	96.35	1.83	1.39	3.87	76.61		78.04		79.46	86.22	79.17	82.24
09/10/89		131.06	122.54	101.82	96.32	1.37	1.04	1.53	76.69		78.13		79.56	86.35	79.27	82.34
09/17/89		131.08	122.88	101.72	96.34	1.35	1.03	0.98	76.81		78.28		79.71	86.55	79.40	82.48
09/24/89		131.10	122.44	101.73	96.42	1.12	0.85	1.40	76.81		78.28		79.71	86.72	79.40	82.48
10/01/89		131.12	122.80	101.66	96.43	0.92	0.70	1.65	76.87		78.32		79.78	86.64	79.47	82.54
10/08/89		131.02	122.70	101.59	96.34	1.40	0.99	1.55	76.87		78.32		79.78	86.64	79.47	82.54
10/15/89		130.98	122.44	101.20	96.24	0.94	0.67	0.05	76.72		78.16		79.60	86.40	79.30	82.37
10/22/89		130.90	122.34	101.00	96.12	1.00	0.71	0.95	76.57		77.99		79.41	86.18	79.13	82.19
10/29/89		130.84	122.28	100.82	95.99	1.13	0.80	0.00	76.64		78.08		79.49	86.50	79.20	82.27
11/05/89		130.78	122.10	100.63	95.91	0.78	0.65	0.00	76.38		77.78		79.17	85.85	78.91	81.97
11/12/89		130.75	122.08	100.44	95.86	0.85	0.71	1.05	76.37		77.77		79.16	85.83	78.90	81.88
11/19/89		130.72	121.98	100.30	95.80	0.69	0.57	0.09	76.30		77.69		79.07	85.72	78.82	81.87
11/26/89		130.69	121.90	100.16	95.75	0.85	0.54	0.87	76.40		77.79		79.19	85.97	78.93	81.89
12/03/89		130.68	121.80	100.02	95.68	0.80	0.62	0.00	76.30		77.69		79.07	85.72	78.82	81.87
12/10/89		130.57	121.78	99.99	95.60	0.80	0.62	1.69	76.28		77.63		79.01	85.64	78.78	81.82
12/17/89		130.60	121.68	99.80	95.58	0.60	0.48	0.53	76.15		77.52		78.88	85.47	78.65	81.69
12/24/89		130.63	121.64	99.73	95.58	0.28	0.22	1.75	75.92		77.28		78.59	85.09	78.38	81.42
12/31/89		130.65	121.60	99.66	95.59	0.56	0.43	0.05	76.10		77.45		78.81	85.45	78.58	81.63
01/07/90		130.68	121.58	99.59	95.59	0.98	0.48	0.82	76.14		77.51		78.87	85.46	78.64	81.68
01/14/90		130.67	121.50	99.46	95.54	0.83	0.57	0.48	75.90		77.23		78.56	85.05	78.35	81.39
01/21/90		130.67	121.44	99.27	95.47	0.85	0.59	0.00	76.01		77.35		78.70	85.24	78.48	81.52
01/28/90		130.66	121.34	99.16	95.41	0.96	0.68	0.21	75.83		77.28		78.60	85.35	78.39	81.43
02/04/90		130.70	121.34	99.05	95.34	0.82	0.60	0.39	75.98		77.30		78.64	85.16	78.43	81.47
02/11/90		130.70	121.34	98.99	95.30	1.01	0.74	0.89	75.94		77.27		78.61	85.12	78.40	81.44
02/18/90		130.71	121.28	98.85	95.42	1.13	0.82	0.80	75.94		77.17		78.49	85.13	78.29	81.33
02/25/90		130.71	121.38	98.89	95.59	0.73	0.53	1.37	75.94		77.27		78.61	85.12	78.40	81.44
03/04/90		130.72	121.22	98.83	95.62	1.13	0.95	0.43	76.14		77.51		78.87	85.46	78.64	81.68
03/11/90		130.68	121.10	98.66	95.58	1.16	0.97	0.04	75.95		77.28		78.62	85.13	78.41	81.45
03/18/90		130.63	121.02	98.50	95.49	1.41	1.18	0.58	75.94		77.27		78.61	85.12	78.40	81.44
03/25/90		130.59	120.98	98.31	95.39	1.36	1.14	0.00	75.79		77.11		78.43	84.79	78.23	81.27
04/01/90		130.56	120.88	98.18	95.35	1.35	1.11	2.57	75.82		77.14		78.46	84.92	78.26	81.30
04/08/90		130.49	120.82	98.05	95.31	1.58	1.30	2.11	75.64		76.94		78.24	84.64	78.06	81.09
04/15/90		130.42	120.63	97.82	95.14	1.60	1.31	0.01	75.60		76.89		78.18	84.58	78.01	81.03
04/22/90		130.45	120.58	97.84	95.02	1.50	1.23	0.00	75.53		76.82		78.10	84.57	77.93	80.98
04/29/90		130.48	120.48	97.51	94.89	1.63	1.34	1.55	75.54		76.82		78.11	84.47	77.94	80.97
05/06/90		130.45	120.42	97.33	94.88	1.89	1.61	0.00	75.40		76.68		77.93	84.24	77.78	80.80
05/13/90		130.43	120.38	97.16	94.77	1.74	1.48	0.54	75.21		76.48		77.70	83.94	77.57	80.58
05/20/90		130.40	120.32	97.04	94.68	2.03	1.73	1.34	75.20		76.44		77.68	83.91	77.55	80.58
05/27/90		130.37	120.30	96.84	94.50	1.74	1.48	0.03	75.02		76.24		77.46	83.78	77.35	80.35
06/03/90		130.30	120.06	96.66	94.40	2.09	1.90	1.42	74.83		76.03		77.22	83.31	77.13	80.12

LONG-TERM LAKE STAGE SIMULATION DATABASE FOR UPPER ETONIA CREEK CHAIN OF LAKES

Date	Blue Pond (ft. NGVD)	Sand Hill Lake (ft. NGVD)	Magnolia Lake (ft. NGVD)	Brooklyn Lake (ft. NGVD)	Lake Geneva (ft. NGVD)	Pan Evaporation (inches)	Lake Evaporation (inches)	Precipitation (inches)	Sand Hill Floridan (ft. NGVD)	Sand Hill Intermediate (ft. NGVD)	Magnolia Floridan (ft. NGVD)	Magnolia Intermediate (ft. NGVD)	Brooklyn Floridan (ft. NGVD)	Brooklyn Intermediate (ft. NGVD)	Geneva Floridan (ft. NGVD)	Geneva Intermediate (ft. NGVD)
06/10/80		130.35	120.08	98.61	84.40	1.32	1.20	1.58	74.98		78.17		77.38	83.52	77.28	80.28
06/17/80		130.39	120.10	98.47	84.32	1.95	1.77	0.02	74.80		75.99		77.18	83.28	77.09	80.09
06/24/80		130.44	120.15	98.41	84.34	1.77	1.81	3.98	75.00		78.21		77.43	82.78	77.32	80.32
07/01/80		130.48	120.22	98.54	84.43	1.40	1.27	3.34	75.02		78.23		77.45	83.61	77.34	80.34
07/08/80		130.48	120.18	98.45	84.34	1.54	1.40	0.88	74.88		78.05		77.25	83.35	77.18	80.15
07/15/80		130.43	120.08	98.28	84.24	1.62	1.47	7.14	74.94		78.14		77.35	83.48	77.25	80.25
07/22/80		130.41	120.12	98.23	84.28	1.54	1.40	2.29	74.95		78.16		77.37	83.51	77.27	80.27
07/29/80		130.40	120.01	98.18	84.31	1.88	1.71	0.07	75.00		78.21		77.43	82.98	77.32	80.32
08/05/80		130.40	119.90	98.02	84.29	1.73	1.47	0.41	74.73		75.91		77.09	83.15	77.01	80.00
08/12/80		130.35	118.78	95.78	84.18	1.22	1.04	2.79	74.71		75.88		77.08	83.11	76.98	78.67
08/19/80		130.29	118.70	95.55	84.08	1.48	1.28	1.32	74.68		75.83		77.00	83.03	76.83	79.82
08/26/80		130.24	118.58	95.35	83.88	1.47	1.25	1.80	74.62		75.78		76.95	82.50	76.88	79.87
09/02/80		130.18	118.44	95.15	83.91	1.62	1.23	2.07	74.58		75.72		76.88	82.67	76.82	79.81
09/09/80		130.07	118.32	94.85	83.83	1.41	1.07	0.29	74.51		75.68		76.81	82.79	76.78	79.74
09/16/80		129.95	118.18	94.78	83.71	1.43	1.09	0.52	74.48		75.60		76.75	82.70	76.70	79.68
09/23/80		129.84	118.12	94.60	83.58	1.67	1.27	0.22	74.40		75.54		76.68	81.92	76.63	79.61
09/30/80		129.72	118.92	94.55	83.48	1.33	1.01	0.82	74.35		75.48		76.61	82.52	76.57	79.55
10/07/80		129.72	118.84	94.49	83.42	1.24	0.88	0.08	74.29		75.42		76.54	82.43	76.51	79.48
10/14/80		129.71	118.08	94.44	83.47	1.21	0.88	3.00	74.24		75.36		76.47	82.34	76.45	79.42
10/21/80		129.71	118.08	94.38	83.60	1.10	0.78	0.12	74.18		75.29		76.40	82.28	76.39	79.36
10/28/80		129.70	118.09	94.29	83.58	0.91	0.65	0.31	74.13		75.23		76.34	81.62	76.32	79.28
11/04/80		129.70	118.78	94.19	83.45	0.87	0.72	0.00	74.08		75.17		76.27	82.08	76.28	79.23
11/11/80		129.65	118.78	94.10	83.40	0.90	0.75	0.77	74.02		75.11		76.20	81.89	76.20	79.18
11/18/80		129.60	118.60	94.00	83.34	0.90	0.75	0.00	73.99		75.07		76.18	81.84	76.18	79.12
11/25/80		129.55	118.50	93.91	83.27	0.98	0.55	0.14	73.89		74.97		76.04	81.31	76.05	79.01
12/02/80		129.50	118.38	93.81	83.19	0.71	0.55	0.16	73.77		74.83		75.99	81.59	75.92	78.87
12/09/80		129.49	118.40	93.72	83.13	0.54	0.42	1.32	73.78		74.84		75.90	81.60	75.92	78.88
12/16/80		129.47	118.30	93.62	83.12	0.53	0.41	0.00	73.84		74.80		75.97	81.69	75.99	78.94
12/23/80		129.45	118.22	93.53	83.05	0.58	0.45	0.00	73.79		74.85		75.91	81.61	75.93	78.89
12/30/80		129.44	118.12	93.43	82.98	0.80	0.48	0.07	73.79		74.85		75.91	80.71	75.93	78.89
01/06/81		129.42	118.08	93.33	82.92	0.33	0.23	0.00	73.70		74.75		75.80	81.47	75.83	78.78
01/13/81		129.48	118.12	93.24	82.83	0.73	0.50	2.20	73.78		74.84		75.90	81.60	75.92	78.88
01/20/81		129.54	118.12	93.14	82.88	0.83	0.43	1.84	73.74		74.80		75.85	81.54	75.88	78.83
01/27/81		129.59	118.12	93.15	83.03	0.81	0.42	1.18	73.68		74.70		75.74	80.87	75.78	78.73
02/03/81		129.65	118.11	93.27	83.11	0.48	0.34	1.98	73.68		74.72		75.77	81.43	75.81	78.75
02/10/81		129.71	118.11	93.25	83.07	0.85	0.47	0.13	73.88		74.85		76.02	81.78	76.03	78.99
02/17/81		129.68	118.09	93.18	82.98	1.04	0.78	0.32	73.55		74.58		75.81	81.22	75.88	78.60
02/24/81		129.61	118.08	93.05	82.88	1.01	0.74	0.00	73.73		74.78		75.83	80.70	75.88	78.61
03/03/81		129.56	118.07	92.99	82.97	0.86	0.55	5.15	74.05		75.14		76.23	82.03	76.23	79.19
03/10/81		129.71	118.08	92.98	83.07	0.99	0.83	0.27	74.05		75.15		76.24	82.04	76.24	79.20
03/17/81		129.85	118.08	93.08	83.18	1.12	0.94	1.11	74.22		75.34		76.45	82.31	76.43	79.40
03/24/81		130.00	118.09	93.12	83.27	1.03	0.87	2.80	74.47		75.61		76.78	81.42	76.71	79.69
03/31/81		130.14	118.10	93.17	83.18	1.26	1.03	0.88	74.77		75.85		77.14	81.68	77.08	80.05
04/07/81		130.18	118.04	93.04	83.15	1.25	1.03	0.01	74.99	122.90	76.10		77.20	81.72	77.11	80.11
04/14/81		130.22	118.10	92.97	83.11	1.31	1.07	1.11	75.13	123.30	76.24		77.34	81.87	77.24	80.24
04/21/81		130.40	118.28	92.87	83.25	1.03	0.84	3.43	75.23	124.02	76.42		77.80	81.92	77.48	80.48
04/28/81		130.58	118.44	93.08	83.37	1.03	0.84	1.40	75.37	125.30	76.54		77.71	82.28	77.58	80.58
05/05/81		130.78	118.48	93.19	83.28	1.59	1.35	0.36	75.29	125.29	76.52		77.75	82.30	77.61	80.63
05/12/81		130.89	118.51	93.21	83.19	1.49	1.27	0.81	75.25	125.80	76.58		77.80	82.48	77.75	80.77
05/19/81		130.82	118.58	93.08	83.15	1.73	1.47	0.80	75.24	126.01	76.57		77.89	82.45	77.74	80.78
05/26/81		130.55	118.62	93.06	83.09	1.22	1.04	1.04	75.22	125.69	76.59		77.98	82.52	77.81	80.82
06/02/81		130.48	118.67	93.00	83.10	1.28	1.18	2.98	75.27	125.93	76.64		78.01	82.58	77.85	80.87
06/09/81		130.58	118.72	92.88	83.18	1.32	1.20	1.80	75.52	126.11	76.94		78.36	82.84	78.17	81.20
06/16/81		130.68	118.78	93.07	83.20	1.75	1.59	0.00	76.02	126.29	77.37		78.71	83.31	78.49	81.53
06/23/81		130.87	118.13	93.07	83.14	1.42	1.29	1.81	76.23	126.04	77.51		78.78	83.41	78.55	81.60
06/30/81		131.08	118.47	93.08	83.07	1.54	1.40	1.95	76.21	126.48	77.57		78.93	83.54	78.69	81.74
07/07/81		131.23	118.82	93.03	83.00	1.47	1.34	0.43	76.22	126.48	77.57		78.91	83.51	78.80	81.80
07/14/81		131.39	120.16	92.99	82.98	0.97	0.88	1.92	76.27	126.71	77.84	108.00	79.00	83.61	78.89	82.12
07/21/81		131.56	120.51	92.95	83.03	1.42	1.29	0.99	76.27	126.77	77.94		79.01	83.62	78.79	82.13
07/28/81		131.72	120.85	93.03	83.15	1.28	1.18	2.47	76.62	127.12	77.97		79.32	83.94	79.10	82.18
08/04/81		131.74	121.20	93.16	83.32	0.85	0.72	3.25	76.90	128.78	78.30		79.69	84.33	79.41	83.02
08/11/81		131.73	121.56	93.33	83.33	1.40	1.19	0.38	77.01	127.08	78.37		79.73	84.37	79.45	83.08
08/18/81		131.72	121.91	93.30	83.23	1.51	1.28	0.98	77.01	128.68	78.39		79.77	84.41	79.50	83.10
08/25/81		131.71	122.48	93.48	83.27	1.17	0.99	0.82	76.77	128.63	78.25		79.72	84.38	79.43	82.47
09/01/81		131.70	123.01	93.59	83.31	1.03	0.78	4.07	76.77	125.84	78.20		79.63	84.32	79.38	82.48
09/08/81		131.82	123.58	93.69	83.19	1.38	1.05	0.46	76.77	125.77	78.22		79.66	84.30	79.35	82.40
09/15/81		131.55	123.74	93.65	83.07	1.49	1.13	0.01	76.84	125.40	78.05		79.48	84.09	79.21	82.29
09/22/81		131.47	123.82	93.80	82.95				76.37	124.78	77.83		79.28	83.60	78.98	82.08
09/29/81		131.40	124.10	93.47	82.91				76.23	124.39	77.72		79.20	83.82	78.93	81.97
10/06/81		131.32	124.22	93.40	82.85				76.61	123.90	78.11		79.61	84.25	79.31	82.33

D8. Sand Hill Lake Long-Term Lake Stage Simulation

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gainesville Pan Evap. In/week	Sand Hill Lake Evap. In/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Runoff Coeff. = 0.01	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/03/65	6.0	10.0		132.01	132.01	0.00		20083.8	0.0	1300.8									83.93	48.00	
01/10/65	6.0	10.0	222.1	132.01	131.78	0.23	24.58	19783.2	-300.6	1293.7	0.00	0.0	0.0	0.0	0.72	0.65	60.1	83.06	47.82	121.4	
01/17/65	6.0	10.0	222.1	132.02	131.68	0.34	16.01	19658.6	-126.7	1290.6	0.40	43.1	185.2	1.9	0.82	0.48	51.5	83.98	47.72	120.0	
01/24/65	6.0	10.0	222.1	132.03	131.62	0.41	12.81	19575.5	-81.1	1288.7	0.42	45.2	194.4	1.9	0.84	0.49	53.0	83.85	47.77	119.5	
01/31/65	6.0	10.0	222.1	132.04	131.60	0.43	10.91	19558.4	-19.1	1288.2	1.04	111.7	481.4	4.8	1.05	0.81	66.8	83.93	47.68	119.5	
02/07/65	6.0	10.0	222.1	132.05	131.50	0.46	10.48	19533.8	-22.6	1287.7	0.72	77.3	333.3	3.3	0.82	0.57	60.7	83.65	47.94	119.2	
02/14/65	6.0	10.0	222.1	132.05	131.68	0.38	9.98	19650.4	0.0	118.6	1.94	208.2	896.1	9.0	0.87	0.60	64.4	83.78	47.89	119.8	
02/21/65	6.0	10.0	222.1	132.06	131.57	0.49	12.86	19515.0	-136.5	1287.2	0.05	5.4	23.1	0.2	0.91	0.63	67.5	83.61	47.76	119.9	
02/28/65	6.0	10.0	222.1	132.07	131.66	0.42	9.57	19622.6	107.6	1286.8	2.03	217.8	839.7	9.4	1.21	0.83	66.6	84.00	47.66	119.3	
03/07/65	6.0	10.0	222.1	132.08	131.70	0.38	12.00	19677.1	54.5	1291.1	1.95	209.6	902.7	9.0	1.28	0.93	100.4	84.21	47.49	119.3	
03/14/65	6.0	10.0	222.1	132.04	131.67	0.37	13.31	19637.2	-39.9	1290.2	0.98	105.4	453.7	4.5	0.87	0.64	68.3	84.16	47.51	119.0	
03/21/65	6.0	10.0	222.1	132.00	131.63	0.37	12.34	19592.0	-46.1	1289.1	1.08	116.1	500.0	5.0	1.25	0.91	66.1	84.22	47.41	118.9	
03/28/65	6.0	10.0	222.1	131.96	131.51	0.45	11.28	19433.1	-159.0	1285.2	0.00	0.0	0.0	0.0	1.35	0.99	105.9	84.26	47.25	118.6	
04/04/65	6.0	10.0	222.1	131.92	131.41	0.51	7.87	19310.3	-122.8	1282.2	0.00	0.0	0.0	0.0	1.31	1.10	117.0	84.18	47.25	117.8	
04/11/65	6.0	10.0	222.1	131.88	131.31	0.57	5.59	19182.9	-127.4	1279.1	0.00	0.0	0.0	0.0	1.72	1.44	154.4	84.16	47.15	117.6	
04/18/65	6.0	10.0	222.1	131.84	131.21	0.63	3.58	19050.6	-132.2	1275.0	0.02	2.1	9.3	0.1	2.12	1.78	189.8	84.00	47.21	117.0	
04/25/65	6.0	10.0	222.1	131.75	131.39	0.36	1.82	19285.0	234.4	1281.6	2.74	291.3	1264.4	12.7	1.86	1.39	148.3	83.97	47.42	116.9	
05/02/65	6.0	10.0	222.1	131.66	131.34	0.32	5.16	19213.7	-71.3	1279.9	0.38	40.8	175.9	1.8	1.67	1.37	146.3	83.75	47.59	117.9	
05/09/65	6.0	10.0	222.1	131.57	131.23	0.34	4.03	19073.6	-140.1	1278.4	0.00	0.0	0.0	0.0	2.15	1.76	198.0	83.65	47.58	118.2	
05/16/65	6.0	10.0	222.1	131.48	131.14	0.34	2.18	18967.9	-106.7	1273.8	0.18	19.1	83.3	0.8	2.29	1.88	199.7	83.46	47.69	117.8	
05/23/65	6.0	10.0	222.1	131.39	131.06	0.33	1.11	18857.4	-110.5	1271.1	0.00	0.0	0.0	0.0	2.29	1.88	199.3	83.26	48.00	117.9	
05/30/65	6.0	10.0	222.1	131.30	131.02	0.28	0.33	18805.4	-82.1	1269.8	0.26	27.5	120.4	1.2	2.07	1.70	179.8	82.73	48.28	118.6	
06/06/65	6.0	10.0	222.1	131.38	131.08	0.30	0.08	18882.5	77.1	1271.7	1.46	154.5	675.9	6.8	2.07	1.76	166.2	82.59	48.49	119.0	
06/13/65	6.0	10.0	222.1	131.46	131.55	-0.10	0.47	19490.1	807.6	1286.6	5.75	609.4	2661.8	26.6	1.38	1.17	124.3	82.87	48.68	119.7	
06/20/65	6.0	10.0	222.1	131.53	131.72	-0.18	6.04	19699.9	209.8	1291.7	3.06	328.1	1416.5	14.2	1.18	1.00	107.5	82.95	48.77	121.5	
06/27/65	6.0	10.0	222.1	131.61	131.62	-0.01	13.87	19571.2	-128.7	1288.8	1.94	111.9	481.4	4.8	1.87	1.42	152.8	83.05	48.58	122.2	
07/04/65	6.0	10.0	222.1	131.69	131.48	0.21	10.81	19399.7	-171.5	1284.4	0.48	51.5	222.2	2.2	1.80	1.64	175.9	83.31	48.17	121.4	
07/11/65	6.0	10.0	222.1	131.68	131.48	0.28	7.22	19402.7	3.0	1284.5	1.51	161.6	899.0	7.0	1.72	1.57	167.5	83.41	48.08	120.0	
07/18/65	6.0	10.0	222.1	131.84	131.75	0.10	7.28	19738.4	336.7	1292.6	4.05	433.5	1874.8	18.7	1.21	1.10	117.9	83.56	48.18	119.8	
07/25/65	6.0	10.0	222.1	131.92	131.68	0.34	14.84	19529.7	-208.7	1287.6	0.55	59.2	254.6	2.5	1.69	1.54	165.7	83.67	47.91	120.9	
08/01/65	6.0	10.0	222.1	132.00	131.82	0.18	9.89	19833.3	303.6	1294.9	4.14	444.2	1916.5	19.2	1.28	1.16	125.0	83.97	47.84	119.7	
08/08/65	6.0	10.0	222.1	132.08	131.75	0.33	17.34	19739.2	-94.1	1292.5	1.62	174.8	749.9	7.5	1.40	1.27	137.5	84.32	47.43	120.2	
08/15/65	6.0	10.0	222.1	132.15	131.63	0.53	14.67	19585.5	-153.8	1288.0	0.92	99.1	425.9	4.3	1.57	1.43	153.9	84.50	47.13	119.0	
08/22/65	6.0	10.0	222.1	132.23	131.53	0.70	11.13	19458.4	-129.1	1285.8	0.78	83.8	361.1	3.6	1.70	1.55	166.2	84.55	46.98	117.9	
08/29/65	6.0	10.0	222.1	132.17	131.60	0.57	8.34	19548.1	91.7	1286.0	2.54	272.2	1175.8	11.8	1.86	1.69	181.4	84.85	46.95	117.2	
09/05/65	6.0	10.0	222.1	132.11	131.48	0.63	10.29	19392.5	-156.6	1284.2	0.14	15.0	84.8	0.8	1.48	1.24	133.2	84.68	46.80	117.3	
09/12/65	6.0	10.0	222.1	132.04	131.39	0.65	7.08	19279.7	-112.8	1281.5	0.18	19.3	83.3	0.8	1.54	1.31	140.1	84.61	46.78	116.6	
09/19/65	6.0	10.0	222.1	131.98	131.37	0.61	5.07	19257.1	-22.7	1280.9	0.53	56.6	245.3	2.5	1.29	1.10	117.1	84.60	46.77	116.3	
09/26/65	6.0	10.0	222.1	131.88	131.33	0.55	4.71	19205.7	-51.4	1279.7	0.25	26.7	115.7	1.2	1.32	1.12	119.8	84.63	46.71	116.2	
10/03/65	6.0	10.0	222.1	132.14	131.48	0.66	3.91	19394.4	188.7	1284.3	2.17	231.4	1004.5	10.0	1.29	0.98	104.5	84.77	46.71	116.0	
10/10/65	6.0	10.0	222.1	132.12	131.48	0.64	7.12	19390.5	-3.9	1284.2	0.85	91.0	393.5	3.9	1.30	0.99	105.7	84.83	46.84	116.4	
10/17/65	6.0	10.0	222.1	132.08	131.42	0.66	7.04	19319.7	-70.9	1282.4	0.05	5.4	23.1	0.2	1.04	0.79	84.6	84.78	46.84	116.2	
10/24/65	6.0	10.0	222.1	131.96	131.38	0.58	5.75	19273.6	-46.1	1281.3	0.08	8.5	37.0	0.4	1.00	0.76	81.2	84.64	46.74	116.1	
10/31/65	6.0	10.0	222.1	131.82	131.37	0.45	4.97	19252.4	-21.2	1280.8	0.20	21.4	92.6	0.9	0.99	0.75	80.3	84.85	46.72	116.2	
11/07/65	6.0	10.0	222.1	131.78	131.35	0.43	4.63	19234.4	-18.0	1280.4	0.11	11.7	50.9	0.5	0.95	0.67	72.0	84.57	46.78	116.1	
11/14/65	6.0	10.0	222.1	131.76	131.35	0.41	4.35	19230.7	-3.7	1280.3	0.00	0.0	0.0	0.0	0.85	0.46	49.2	84.51	46.84	116.2	
11/21/65	6.0	10.0	222.1	131.72	131.34	0.38	4.29	19214.0	-16.7	1279.9	0.00	0.0	0.0	0.0	0.83	0.59	62.9	84.47	46.86	116.4	
11/28/65	6.0	10.0	222.1	131.72	131.42	0.30	4.04	19325.6	111.5	1282.6	1.10	117.3	509.2	5.1	1.00	0.80	56.7	84.38	47.05	116.4	
12/05/65	6.0	10.0	222.1	131.64	131.42	0.22	5.86	19323.3	-2.2	1282.5	0.30	32.1	136.9	1.4	0.67	0.56	59.4	84.38	47.04	117.1	
12/12/65	6.0	10.0	222.1	131.62	131.40	0.22	5.82	19288.1	-34.2	1281.7	0.00	0.0	0.0	0.0	0.66	0.55	58.5	84.20	47.19	117.1	
12/19/65	6.0	10.0	222.1	131.88	131.72	0.16	5.23	19702.0	412.9	1291.7	3.83	409.1	1773.0	17.7	0.52	0.43	46.1	84.48	47.23	117.4	
12/26/65	6.0	10.0	222.1	131.92	131.61	0.31	13.92	19561.7	-140.2	1288.3	0.95	5.4	23.1	0.2	0.83	0.52	58.3	84.41	47.20	118.4	
01/02/66	6.0	10.0	222.1	131.88	131.53	0.35	10.80	19480.1	-101.6	1285.9	0.00	0.0	0.0	0.0	0.71	0.55	58.7	84.39	47.14	118.0	
01/09/66	6.0	10.0	222.1	131.88	131.53	0.35	8.41	19480.8	0.7	1285.9	0.50	53.6	231.5	2.3	0.52	0.40	42.9	84.25	47.28	117.6	
01/16/66	6.0	10.0	222.1	131.80	131.50	0.30	8.43	19420.7	-40.1	1284.9	0.28	30.0	126.6	1.0	0.71	0.55	58.6	84.44	47.06	118.0	
01/23/66	6.0	10.0	222.1	131.82	131.58	0.24	7.62	19521.1	100.5	1287.3	1.30	139.2	601.8	6.0	0.53	0.41	43.7	84.32	47.25		

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5565		Galveston Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/03/66	6.0	10.0	222.1	131.82	131.83	0.48	6.76	93.8	19207.6	-167.6	1279.7	0.00	0.0	0.0	0.0	2.01	1.99	180.6	85.12	46.21	115.4
04/10/66	6.0	10.0	222.1	131.78	131.37	0.41	3.94	54.7	19253.4	46.8	1280.8	1.46	155.7	675.9	6.8	1.89	1.59	169.3	85.02	46.35	114.8
04/17/66	6.0	10.0	222.1	131.72	131.31	0.41	4.85	64.5	19173.9	-79.5	1278.9	0.08	8.5	37.0	0.4	1.46	1.23	130.9	84.94	46.37	115.2
04/24/66	6.0	10.0	222.1	131.67	131.26	0.41	3.46	48.0	19120.4	-53.4	1277.6	0.55	56.6	254.8	2.5	1.94	1.63	173.7	84.75	46.52	115.1
05/01/66	6.0	10.0	222.1	131.64	131.19	0.45	2.74	38.1	19031.2	-89.3	1275.4	0.00	0.0	0.0	0.0	1.81	1.48	158.0	84.63	46.57	115.3
05/08/66	6.0	10.0	222.1	131.64	131.41	0.43	1.71	23.8	19312.2	281.0	1282.3	3.01	319.9	1393.4	13.9	1.56	1.28	136.0	84.79	46.62	115.2
05/15/66	6.0	10.0	222.1	131.80	131.42	0.38	5.82	78.1	19313.5	1.4	1282.3	1.01	107.9	467.5	4.7	1.50	1.30	139.3	84.67	46.75	116.0
05/22/66	6.0	10.0	222.1	131.82	131.37	0.45	5.85	78.4	19252.8	-60.8	1280.8	0.60	64.1	277.8	2.8	1.77	1.45	155.1	84.63	46.74	116.3
05/29/66	6.0	10.0	222.1	131.77	131.47	0.30	4.64	64.4	19389.4	136.6	1284.1	1.93	206.0	893.4	8.9	1.37	1.12	119.9	84.60	46.79	116.2
06/05/66	6.0	10.0	222.1	131.72	131.36	0.36	7.02	97.5	19240.4	-149.0	1280.5	0.10	10.7	48.3	0.6	1.85	1.57	168.3	84.51	46.85	116.6
06/12/66	6.0	10.0	222.1	131.88	131.69	0.29	4.44	61.7	19534.5	294.1	1287.7	3.59	383.1	1861.9	16.6	1.65	1.40	149.7	84.79	46.79	116.4
06/19/66	6.0	10.0	222.1	131.92	131.62	0.30	9.99	138.7	19581.5	47.0	1288.8	2.30	246.8	1064.7	10.6	1.94	1.65	178.9	84.61	47.01	116.9
06/26/66	6.0	10.0	222.1	131.86	131.48	0.38	11.04	153.3	19402.3	-179.2	1284.5	0.27	29.0	125.0	1.2	1.76	1.50	180.7	84.46	47.03	117.6
07/03/66	6.0	10.0	222.1	131.98	131.84	0.44	7.27	100.9	19474.8	72.4	1286.2	1.86	199.1	861.0	8.6	1.43	1.30	139.3	84.66	46.86	117.2
07/10/66	6.0	10.0	222.1	131.92	131.39	0.53	8.72	121.0	19280.5	-194.2	1281.5	0.08	8.6	37.0	0.4	1.92	1.75	187.3	84.57	46.82	117.0
07/17/66	6.0	10.0	222.1	131.80	131.30	0.50	5.09	70.6	19167.1	-113.5	1278.7	0.35	37.4	162.0	1.6	1.93	1.76	187.6	84.48	46.82	116.4
07/24/66	6.0	10.0	222.1	131.72	131.32	0.40	3.36	46.7	19195.8	28.8	1279.4	0.92	98.0	425.9	4.3	1.37	1.25	132.8	84.45	46.87	116.2
07/31/66	6.0	10.0	222.1	131.72	131.50	0.22	3.77	52.3	19424.1	228.3	1285.0	2.81	299.6	1300.8	13.0	1.42	1.29	137.8	84.41	47.09	116.4
08/07/66	6.0	10.0	222.1	131.78	131.54	0.22	7.69	106.8	19471.0	46.9	1286.1	1.59	170.3	736.0	7.4	1.32	1.20	128.6	84.40	47.14	117.4
08/14/66	6.0	10.0	222.1	131.94	131.79	0.15	8.64	120.0	19796.8	325.7	1294.0	4.36	467.3	2018.3	20.2	1.50	1.37	146.3	84.59	47.20	117.8
08/21/66	6.0	10.0	222.1	131.88	131.72	0.16	16.37	227.2	19710.3	-96.5	1291.9	1.70	183.3	787.0	7.9	1.57	1.43	154.1	84.65	47.07	118.5
08/28/66	6.0	10.0	222.1	131.98	131.84	0.34	14.13	196.2	19599.5	-110.8	1289.3	1.36	148.4	629.6	6.3	1.75	1.59	171.5	84.86	46.77	118.0
09/04/66	6.0	10.0	222.1	131.82	131.47	0.35	11.46	159.1	19388.5	-211.0	1284.1	0.00	0.0	0.0	0.0	1.72	1.46	157.1	84.76	46.71	117.0
09/11/66	6.0	10.0	222.1	131.76	131.82	0.14	7.00	97.3	19574.0	185.5	1286.8	3.06	327.5	1416.5	14.2	1.81	1.64	164.6	84.96	46.75	116.4
09/18/66	6.0	10.0	222.1	131.74	131.61	0.13	10.87	150.9	19563.9	-10.0	1288.4	1.50	161.1	694.4	6.9	1.45	1.23	132.4	84.87	46.74	116.9
09/25/66	6.0	10.0	222.1	131.88	131.61	0.07	10.85	147.8	19818.4	254.5	1294.5	3.87	394.0	1698.9	17.0	1.25	1.06	114.1	84.78	47.02	116.8
10/02/66	6.0	10.0	222.1	131.96	131.91	0.06	16.94	235.2	19856.1	137.7	1297.9	3.25	350.6	1504.5	15.0	1.18	0.90	96.7	85.03	46.88	118.1
10/09/66	6.0	10.0	222.1	131.82	131.72	0.10	20.78	288.6	19701.6	-254.5	1291.7	0.21	22.7	97.2	1.0	1.14	0.87	93.7	85.23	46.49	118.1
10/16/66	6.0	10.0	222.1	131.86	131.95	0.21	13.91	193.2	19617.7	-83.9	1289.7	0.90	96.9	416.6	4.2	1.19	0.90	97.4	85.20	46.45	116.5
10/23/66	6.0	10.0	222.1	131.76	131.86	0.20	11.88	165.0	19498.2	-119.6	1286.8	0.24	25.8	111.1	1.1	1.07	0.81	87.4	85.20	46.36	116.3
10/30/66	6.0	10.0	222.1	131.86	131.56	0.32	8.21	127.8	19501.6	3.4	1286.0	0.90	96.5	416.6	4.2	0.93	0.71	75.8	85.21	46.35	115.8
11/06/66	6.0	10.0	222.1	131.76	131.49	0.27	9.28	128.9	19412.0	-89.6	1284.7	0.06	6.4	27.8	0.3	0.97	0.89	73.9	85.04	46.45	115.7
11/13/66	6.0	10.0	222.1	131.72	131.44	0.28	7.46	103.5	19346.4	-65.6	1283.1	0.00	0.0	0.0	0.0	0.90	0.84	68.4	84.90	46.54	115.8
11/20/66	6.0	10.0	222.1	131.61	131.40	0.21	8.23	86.5	19290.3	-56.1	1281.7	0.00	0.0	0.0	0.0	1.00	0.71	75.9	84.79	46.60	115.9
11/27/66	6.0	10.0	222.1	131.51	131.37	0.14	5.25	72.9	19258.4	-31.9	1281.0	0.00	0.0	0.0	0.0	0.86	0.61	65.2	84.72	46.65	115.9
12/04/66	6.0	10.0	222.1	131.50	131.35	0.15	4.73	65.8	19224.7	-33.8	1280.1	0.16	17.1	74.1	0.7	1.04	0.86	92.1	84.46	46.89	116.0
12/11/66	6.0	10.0	222.1	131.50	131.34	0.16	4.20	58.3	19222.5	-2.2	1290.1	0.00	0.0	0.0	0.0	0.56	0.46	49.6	84.41	46.93	116.5
12/18/66	6.0	10.0	222.1	131.50	131.43	0.07	4.17	57.8	19336.0	113.6	1282.8	0.87	92.8	402.7	4.0	0.35	0.29	31.0	84.21	47.22	116.6
12/25/66	6.0	10.0	222.1	131.48	131.42	0.06	6.04	83.9	19313.4	-22.7	1282.3	0.08	8.6	37.0	0.4	0.50	0.49	52.4	84.09	47.33	117.5
01/01/67	6.0	10.0	222.1	131.46	131.40	0.06	5.64	78.3	19291.6	-21.7	1281.8	0.14	15.0	64.8	0.6	0.77	0.59	63.4	84.09	47.31	117.8
01/08/67	6.0	10.0	222.1	131.62	131.62	-0.00	5.27	73.2	19580.7	289.1	1288.8	2.83	302.3	1310.1	13.1	1.31	1.07	57.6	84.09	47.54	117.7
01/15/67	6.0	10.0	222.1	131.58	131.63	-0.05	11.03	153.1	19583.2	2.4	1288.9	0.85	91.3	393.5	3.9	0.52	0.40	43.0	84.12	47.51	118.9
01/22/67	6.0	10.0	222.1	131.58	131.55	0.03	11.08	153.8	19480.9	-102.2	1286.4	0.07	7.5	32.4	0.3	0.72	0.55	59.5	83.82	47.72	118.8
01/29/67	6.0	10.0	222.1	131.54	131.49	0.05	8.85	122.8	19404.2	-76.8	1284.5	0.28	30.0	129.6	1.3	1.07	0.82	88.3	83.91	47.58	119.1
02/05/67	6.0	10.0	222.1	131.50	131.45	0.05	7.30	101.4	19356.2	-48.0	1283.3	0.08	8.6	37.0	0.4	0.80	0.55	59.1	83.97	47.47	118.6
02/12/67	6.0	10.0	222.1	131.70	131.79	-0.09	6.40	88.9	19800.1	444.0	1294.1	4.40	470.6	2036.8	20.4	0.84	0.58	62.0	84.13	47.67	118.2
02/19/67	6.0	10.0	222.1	131.92	131.74	0.18	16.45	228.5	19729.4	-70.7	1292.4	1.16	125.1	537.0	5.4	1.01	0.70	75.2	84.30	47.44	119.7
02/26/67	6.0	10.0	222.1	131.80	131.84	0.16	14.82	202.9	19597.0	-132.4	1289.2	0.45	48.5	206.3	2.1	1.12	0.77	83.2	84.15	47.49	119.0
03/05/67	6.0	10.0	222.1	131.74	131.53	0.21	11.40	158.3	19462.9	-134.1	1285.9	0.00	0.0	0.0	0.0	1.01	0.74	79.2	84.24	47.29	118.8
03/12/67	6.0	10.0	222.1	131.72	131.49	0.23	8.47	117.6	19407.6	-55.2	1284.8	0.55	58.9	254.6	2.5	1.32	0.96	103.3	84.15	47.34	118.0
03/19/67	6.0	10.0	222.1	131.64	131.39	0.25	7.37	102.3	19276.6	-131.0	1281.4	0.00	0.0	0.0	0.0	1.70	1.24	132.8	83.96	47.43	118.0
03/26/67	6.0	10.0	222.1	131.66	131.32	0.24	5.02	69.7	19193.4	-83.2	1279.4	0.00	0.0	0.0	0.0	1.51	1.10	117.7	83.93	47.40	117.9
04/02/67	6.0	10.0	222.1	131.47	131.30	0.17	3.73	51.8	19167.1	-26.3	1278.7	0.45	48.0	208.3	2.1	1.44	1.21	129.0	83.70	47.61	117.7
04/09/67	6.0	10.0	22																		

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Galveston Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
07/02/67	6.0	10.0	222.1	131.58	131.82	-0.34	8.52	118.3	19659.6	494.3	1298.0	5.73	614.1	2652.5	26.5	1.32	1.20	128.7	83.00	48.91	121.4
07/09/67	6.0	10.0	222.1	131.56	131.85	-0.29	20.89	290.0	19670.4	-89.2	1295.8	2.36	255.3	1092.5	10.9	1.67	1.52	164.4	83.04	48.80	123.2
07/16/67	6.0	10.0	222.1	131.48	131.81	-0.35	18.36	254.9	19618.8	-51.6	1294.6	2.85	286.2	1226.7	12.3	1.98	1.80	194.6	83.13	48.68	122.7
07/23/67	6.0	10.0	222.1	131.48	131.88	-0.20	16.95	235.4	19657.6	-161.2	1290.7	0.95	102.5	439.8	4.4	1.35	1.23	132.5	83.08	48.90	122.9
07/30/67	6.0	10.0	222.1	131.52	131.58	-0.06	12.83	178.2	19521.5	-136.1	1287.4	0.84	88.8	296.3	3.0	1.33	1.21	130.2	83.13	48.45	121.7
08/06/67	6.0	10.0	222.1	131.68	131.57	0.11	9.71	134.8	19508.1	-13.4	1287.0	1.35	144.8	624.9	6.2	1.34	1.22	130.8	83.18	48.39	121.0
08/13/67	6.0	10.0	222.1	131.90	131.83	0.07	8.42	130.8	19852.4	344.3	1295.4	4.30	481.2	1990.5	19.9	1.10	1.00	107.4	83.29	48.54	120.8
08/20/67	6.0	10.0	222.1	131.84	131.81	0.29	17.86	248.0	19663.8	-288.6	1288.4	0.12	13.0	55.6	0.6	1.57	1.43	154.2	83.37	48.24	122.0
08/27/67	6.0	10.0	222.1	131.80	131.47	0.33	10.64	147.7	19380.0	-183.7	1283.9	0.29	31.1	134.2	1.3	1.74	1.58	170.0	83.67	47.80	120.8
09/03/67	6.0	10.0	222.1	131.76	131.46	0.27	6.85	95.0	19408.1	26.0	1284.6	1.53	163.7	708.3	7.1	1.68	1.43	162.8	83.77	47.72	119.1
09/10/67	6.0	10.0	222.1	131.76	131.43	0.33	7.34	101.9	19331.0	-75.1	1282.7	0.40	42.8	185.2	1.9	1.33	1.13	121.0	83.78	47.65	118.9
09/17/67	6.0	10.0	222.1	131.62	131.35	0.27	5.95	82.6	19224.9	-106.1	1280.1	0.01	1.1	4.8	0.0	1.41	1.20	128.1	83.69	47.66	118.8
09/24/67	6.0	10.0	222.1	131.52	131.27	0.25	4.20	58.4	19129.8	-96.0	1277.8	0.00	0.0	0.0	0.0	1.58	1.33	141.5	83.58	47.69	118.4
10/01/67	6.0	10.0	222.1	131.52	131.30	0.22	2.85	39.6	19169.8	40.9	1278.8	0.84	100.1	435.1	4.4	1.58	1.20	127.9	83.54	47.76	118.2
10/08/67	6.0	10.0	222.1	131.48	131.26	0.22	3.40	47.2	19120.1	-49.6	1277.8	0.00	0.0	0.0	0.0	1.31	1.00	106.1	83.50	47.76	118.5
10/15/67	6.0	10.0	222.1	131.38	131.30	0.08	2.74	38.0	19162.2	42.0	1278.6	0.69	73.5	319.4	3.2	1.24	0.94	100.3	83.35	47.95	118.4
10/22/67	6.0	10.0	222.1	131.32	131.30	0.02	3.29	45.7	19166.7	3.5	1278.7	0.44	46.9	203.7	2.0	1.27	0.97	102.8	83.26	48.04	119.0
10/29/67	6.0	10.0	222.1	131.24	131.27	-0.03	3.34	46.4	19132.9	-32.9	1277.9	0.07	7.5	32.4	0.3	1.20	0.91	97.2	83.04	48.23	119.2
11/05/67	6.0	10.0	222.1	131.22	131.32	-0.10	2.90	40.3	19192.0	59.1	1279.3	0.70	74.5	324.0	3.2	1.07	0.78	80.9	83.35	47.97	119.6
11/12/67	6.0	10.0	222.1	131.12	131.30	-0.18	3.71	51.8	19163.2	-28.7	1278.6	0.00	0.0	0.0	0.0	1.06	0.75	80.2	82.85	48.45	119.1
11/19/67	6.0	10.0	222.1	131.16	131.29	-0.13	3.31	45.9	19149.8	-13.6	1278.3	0.00	0.0	0.0	0.0	0.92	0.85	89.6	82.61	48.67	120.2
11/26/67	6.0	10.0	222.1	131.20	131.27	-0.07	3.12	43.4	19133.8	-16.1	1277.9	0.00	0.0	0.0	0.0	1.08	0.70	74.1	82.70	48.67	120.7
12/03/67	6.0	10.0	222.1	131.24	131.26	-0.02	2.91	40.4	19110.9	-22.6	1277.3	0.08	8.5	37.0	0.4	0.94	0.85	82.8	82.37	48.89	120.4
12/10/67	6.0	10.0	222.1	131.29	131.29	-0.00	2.82	38.4	19158.6	45.6	1278.5	0.14	14.9	64.8	0.6	0.39	0.32	34.5	82.49	48.81	121.2
12/17/67	6.0	10.0	222.1	131.34	131.64	-0.30	3.22	44.7	19804.8	448.2	1289.4	4.01	427.2	1856.3	18.6	0.61	0.51	53.9	82.52	49.12	121.1
12/24/67	6.0	10.0	222.1	131.30	131.54	-0.24	11.58	160.8	19478.0	-128.8	1286.3	0.10	10.7	46.3	0.5	0.88	0.73	78.5	82.42	49.13	122.9
12/31/67	6.0	10.0	222.1	131.36	131.58	-0.22	8.74	121.4	19529.7	52.6	1287.5	1.05	112.5	486.1	4.9	0.52	0.40	42.9	82.50	49.08	122.6
01/07/68	6.0	10.0	222.1	131.32	131.53	-0.21	9.88	136.9	19459.2	-89.4	1285.8	0.12	12.9	55.6	0.6	0.55	0.42	45.4	82.40	49.13	122.6
01/14/68	6.0	10.0	222.1	131.32	131.49	-0.17	8.40	116.6	19410.5	-48.7	1284.7	0.10	10.7	46.3	0.5	0.52	0.40	42.9	82.34	49.15	122.8
01/21/68	6.0	10.0	222.1	131.28	131.44	-0.16	7.43	103.1	19347.7	-82.8	1283.1	0.00	0.0	0.0	0.0	0.72	0.55	59.4	82.19	49.26	122.5
01/28/68	6.0	10.0	222.1	131.22	131.43	-0.21	6.25	86.8	19332.2	-15.5	1282.8	0.19	20.3	88.0	0.9	0.60	0.46	49.4	82.01	49.42	122.6
02/04/68	6.0	10.0	222.1	131.20	131.39	-0.19	5.97	82.9	19286.4	-46.8	1281.8	0.03	3.2	13.9	0.1	0.90	0.82	66.4	82.03	49.37	123.0
02/11/68	6.0	10.0	222.1	131.18	131.40	-0.22	5.17	71.8	19296.0	10.7	1281.9	0.39	41.7	180.5	1.8	0.82	0.57	60.4	82.00	49.40	122.8
02/18/68	6.0	10.0	222.1	131.14	131.36	-0.22	5.35	74.2	19247.8	-48.3	1280.7	0.01	1.1	4.6	0.0	1.01	0.70	74.4	81.90	49.46	122.9
02/25/68	6.0	10.0	222.1	131.20	131.44	-0.24	4.56	63.3	19347.6	99.8	1283.1	1.01	107.8	467.5	4.7	0.66	0.46	48.6	81.73	49.71	122.9
03/03/68	6.0	10.0	222.1	131.14	131.41	-0.27	6.25	86.7	19311.7	-35.8	1282.3	0.40	42.8	185.2	1.9	1.18	0.86	82.1	81.64	49.78	123.8
03/10/68	6.0	10.0	222.1	131.22	131.46	-0.24	5.61	78.0	19370.9	59.2	1283.7	1.09	116.5	504.6	5.0	1.06	0.77	82.7	81.88	49.78	123.8
03/17/68	6.0	10.0	222.1	131.28	131.44	-0.16	6.67	92.7	19344.0	-27.0	1283.0	0.43	46.0	199.1	2.0	1.03	0.75	80.4	81.48	49.96	124.0
03/24/68	6.0	10.0	222.1	131.18	131.34	-0.16	6.18	85.8	19223.2	-120.8	1280.1	0.00	0.0	0.0	0.0	1.70	1.24	132.7	81.50	49.84	124.4
03/31/68	6.0	10.0	222.1	131.14	131.28	-0.14	4.18	58.0	19134.5	-88.7	1277.9	0.00	0.0	0.0	0.0	1.44	1.21	129.0	81.36	49.92	123.8
04/07/68	6.0	10.0	222.1	131.10	131.25	-0.15	2.92	40.6	19096.8	-37.7	1277.0	0.26	27.7	120.4	1.2	1.39	1.17	124.3	81.31	49.94	123.8
04/14/68	6.0	10.0	222.1	131.02	131.17	-0.15	2.45	34.0	19006.2	-91.6	1274.8	0.02	2.1	9.3	0.1	1.77	1.49	158.2	81.26	49.91	123.7
04/21/68	6.0	10.0	222.1	130.98	131.10	-0.12	1.45	20.2	18907.1	-88.2	1272.3	0.00	0.0	0.0	0.0	1.98	1.66	176.7	80.92	50.18	123.5
04/28/68	6.0	10.0	222.1	130.88	131.03	-0.15	0.64	8.8	18826.1	-81.0	1270.4	0.00	0.0	0.0	0.0	1.96	1.61	170.4	80.64	50.40	123.9
05/05/68	6.0	10.0	222.1	130.82	131.00	-0.18	0.17	2.3	18778.0	-48.1	1269.2	0.53	56.1	245.3	2.5	2.33	1.91	202.3	80.64	50.35	124.2
05/12/68	6.0	10.0	222.1	130.80	131.04	-0.24	0.23	3.2	18837.2	-1.6	1270.6	0.83	87.9	384.2	3.8	2.16	1.77	187.6	80.26	50.78	124.7
05/19/68	6.0	10.0	222.1	130.80	131.18	-0.44	0.22	3.1	19017.3	180.2	1275.1	2.25	238.2	1041.6	10.4	1.87	1.53	162.4	80.19	50.99	125.2
05/26/68	6.0	10.0	222.1	130.78	131.28	-0.50	1.57	21.8	19138.3	120.9	1278.0	2.01	213.6	930.5	9.3	1.95	1.66	176.1	80.32	50.96	126.2
06/02/68	6.0	10.0	222.1	130.98	131.39	-0.41	2.97	41.3	19281.7	143.4	1281.5	2.03	216.2	939.7	9.4	1.91	1.28	136.7	80.25	51.14	126.4
06/09/68	6.0	10.0	222.1	131.02	131.36	-0.34	5.11	70.9	19243.8	-37.9	1280.6	1.00	106.8	462.9	4.6	1.91	1.62	173.4	80.29	51.08	127.2
06/16/68	6.0	10.0	222.1	130.98	131.37	-0.39	4.50	62.4	19256.5	12.7	1280.9	1.09	116.3	504.6	5.0	1.56	1.33	141.5	80.41	50.96	126.9
06/23/68	6.0	10.0	222.1	131.01	131.35	-0.34	4.70	65.2	19227.8	-28.7	1280.2	1.18	126.0	546.2	5.5	1.95	1.78	190.4	80.17	51.17	126.7
07/07/68	6.0	10.0	222.1	131.04	131.57	-0.53	4.25	59.0	19511.3	283.5	1287.1	3.40	362.7	1573.9	15.7	1.35	1.23	131.1	80.33		

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 /day			
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Precip. in/week	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
10/06/68	6.0	10.0	222.1	131.66	131.43	0.23	8.59	119.2	19331.4	-137.1	1282.7	0.00	0.0	0.0	1.41	1.07	114.8	81.37	50.06	125.2		
10/13/68	6.0	10.0	222.1	131.72	131.46	0.24	5.96	82.7	19399.4	68.0	1264.4	1.30	139.0	801.8	6.0	1.13	0.86	91.8	81.48	50.00	124.6	
10/20/68	6.0	10.0	222.1	131.68	131.73	0.25	7.21	100.1	19723.9	324.5	1292.3	3.49	373.5	1615.6	18.2	0.77	0.59	82.6	81.64	50.10	124.6	
10/27/68	6.0	10.0	222.1	131.84	131.80	0.24	14.47	201.0	19551.2	-172.6	1286.1	0.18	19.4	83.3	0.8	1.08	0.82	88.4	81.64	49.96	125.6	
11/03/68	6.0	10.0	222.1	131.75	131.51	0.24	10.36	143.9	19439.8	-120.5	1285.2	0.00	0.0	0.0	0.0	0.97	0.69	73.9	81.72	49.79	124.9	
11/10/68	6.0	10.0	222.1	131.71	131.61	0.10	7.82	108.6	19564.7	133.9	1286.4	1.92	205.6	888.8	8.9	0.92	0.65	70.0	81.72	49.89	124.2	
11/17/68	6.0	10.0	222.1	131.67	131.58	0.09	10.66	148.0	19524.5	-40.2	1287.4	0.59	63.3	273.1	2.7	0.73	0.52	55.6	81.80	49.98	124.7	
11/24/68	6.0	10.0	222.1	131.63	131.53	0.10	9.77	135.7	19455.8	-88.7	1285.8	0.24	25.7	111.1	1.1	0.75	0.53	57.1	81.58	49.94	124.9	
12/01/68	6.0	10.0	222.1	131.59	131.46	0.13	8.33	115.6	19367.5	-88.3	1283.6	0.00	0.0	0.0	0.0	0.79	0.66	70.3	81.48	49.98	124.6	
12/08/68	6.0	10.0	222.1	131.56	131.41	0.15	6.61	91.8	19312.4	-55.0	1282.3	0.21	22.5	97.2	1.0	0.95	0.79	84.3	81.37	50.05	124.5	
12/15/68	6.0	10.0	222.1	131.50	131.40	0.10	5.63	78.1	19288.8	-23.6	1281.7	0.17	18.2	78.7	0.8	0.70	0.58	62.1	81.46	49.93	124.5	
12/22/68	6.0	10.0	222.1	131.42	131.36	0.06	5.23	72.5	19248.6	-40.2	1280.7	0.00	0.0	0.0	0.0	0.74	0.61	65.6	81.41	49.95	124.2	
12/29/68	6.0	10.0	222.1	131.46	131.41	0.05	4.57	63.5	19306.7	71.1	1282.2	0.74	79.0	342.6	3.4	0.68	0.52	56.9	81.29	50.13	124.1	
01/05/69	6.0	10.0	222.1	131.47	131.47	-0.05	5.58	77.5	19386.7	67.0	1284.1	0.91	97.2	421.3	4.2	0.54	0.42	44.4	81.26	50.21	124.7	
01/12/69	6.0	10.0	222.1	131.40	131.47	-0.07	6.97	96.8	19384.7	-2.0	1284.0	0.43	46.0	199.1	2.0	0.61	0.47	50.3	81.37	50.10	125.1	
01/19/69	6.0	10.0	222.1	131.43	131.43	0.03	6.93	96.3	19335.6	-49.1	1282.8	0.03	3.2	13.9	0.1	0.65	0.50	63.6	81.33	50.11	124.8	
01/26/69	6.0	10.0	222.1	131.38	131.42	-0.04	6.03	83.8	19317.9	-17.6	1282.4	0.14	15.0	64.8	0.6	0.57	0.44	46.9	81.14	50.28	124.7	
02/02/69	6.0	10.0	222.1	131.36	131.39	-0.03	5.72	79.4	19278.0	-39.9	1281.4	0.00	0.0	0.0	0.0	0.78	0.54	57.5	81.01	50.38	125.1	
02/09/69	6.0	10.0	222.1	131.40	131.52	-0.12	5.05	70.1	19450.1	172.2	1285.6	1.84	195.5	851.8	8.5	0.81	0.56	59.7	81.07	50.45	125.9	
02/16/69	6.0	10.0	222.1	131.56	131.67	-0.11	8.21	114.0	19847.1	195.9	1290.4	2.43	260.3	1124.9	11.2	0.77	0.53	56.9	81.25	50.43	125.9	
02/23/69	6.0	10.0	222.1	131.52	131.60	-0.08	12.58	174.6	19554.5	-92.6	1286.2	0.32	34.4	148.1	1.5	0.67	0.46	49.7	81.12	50.48	126.3	
03/02/69	6.0	10.0	222.1	131.48	131.51	-0.03	10.43	144.9	19432.3	-122.2	1285.2	0.01	1.1	4.6	0.0	0.95	0.69	74.4	81.14	50.36	126.2	
03/09/69	6.0	10.0	222.1	131.52	131.57	-0.05	7.85	109.0	19515.9	83.6	1287.2	1.42	152.1	657.3	6.6	0.80	0.58	62.5	81.18	50.39	125.6	
03/16/69	6.0	10.0	222.1	131.56	131.61	-0.05	6.59	133.1	19564.1	48.3	1286.4	1.46	156.6	675.9	6.8	1.00	0.73	78.3	81.08	50.53	125.9	
03/23/69	6.0	10.0	222.1	131.64	131.62	0.02	10.65	147.9	19576.3	12.2	1286.7	1.21	129.9	560.1	5.6	0.91	0.66	71.3	81.44	50.18	126.3	
03/30/69	6.0	10.0	222.1	131.68	131.59	0.09	10.92	151.7	19536.5	-39.7	1287.7	1.32	141.8	611.1	6.1	1.47	1.23	132.6	81.37	50.22	125.5	
04/06/69	6.0	10.0	222.1	131.60	131.44	0.16	10.04	139.3	19347.8	-188.7	1283.1	0.00	0.0	0.0	0.0	1.62	1.36	146.0	81.37	50.07	125.5	
04/13/69	6.0	10.0	222.1	131.52	131.33	0.19	6.25	86.8	19205.8	-142.0	1279.7	0.00	0.0	0.0	0.0	1.70	1.43	152.7	81.30	50.03	124.7	
04/20/69	6.0	10.0	222.1	131.48	131.35	0.13	3.92	54.4	19224.3	18.5	1280.1	0.91	97.0	421.3	4.2	1.41	1.18	126.3	81.26	50.09	124.2	
04/27/69	6.0	10.0	222.1	131.40	131.25	0.15	4.19	58.2	19102.0	-122.3	1277.1	0.00	0.0	0.0	0.0	1.85	1.52	161.8	81.17	50.08	124.4	
05/04/69	6.0	10.0	222.1	131.62	131.26	0.36	2.51	34.9	19116.5	14.5	1277.5	0.67	71.3	310.2	3.1	1.41	1.16	123.1	80.97	50.29	124.1	
05/11/69	6.0	10.0	222.1	131.62	131.18	0.34	2.69	37.4	19099.9	-106.6	1274.9	0.00	0.0	0.0	0.0	1.91	1.57	166.7	80.77	50.41	124.7	
05/18/69	6.0	10.0	222.1	131.54	131.29	0.25	1.50	20.8	19147.8	137.9	1278.3	1.81	192.3	837.9	8.4	1.80	1.31	139.4	80.72	50.56	124.7	
05/25/69	6.0	10.0	222.1	131.58	131.27	0.31	3.10	43.0	19126.2	-21.6	1277.7	0.47	50.1	217.6	2.2	1.46	1.20	127.5	80.62	50.65	124.4	
06/01/69	6.0	10.0	222.1	131.52	131.20	0.32	2.82	39.1	19033.9	-92.4	1275.5	0.02	2.1	9.3	0.1	1.68	1.43	152.0	80.61	50.59	125.6	
06/08/69	6.0	10.0	222.1	131.46	131.25	0.21	1.74	24.2	19097.9	64.0	1277.0	1.55	164.7	717.5	7.2	2.00	1.70	180.7	80.52	50.72	125.2	
06/15/69	6.0	10.0	222.1	131.42	131.24	0.18	2.48	34.2	19092.1	-5.7	1276.9	0.74	78.8	342.6	3.4	1.66	1.41	150.2	80.51	50.73	125.7	
06/22/69	6.0	10.0	222.1	131.44	131.20	0.24	2.39	33.2	19042.7	-49.4	1275.7	0.46	48.9	212.9	2.1	1.81	1.54	163.7	80.36	50.85	125.7	
06/29/69	6.0	10.0	222.1	131.40	131.10	0.30	1.83	25.5	18914.5	-128.2	1272.5	0.02	2.1	9.3	0.1	2.08	1.89	201.2	80.09	51.01	125.9	
07/06/69	6.0	10.0	222.1	131.32	131.05	0.27	0.69	9.6	18842.0	-72.5	1270.8	0.28	29.7	129.6	1.3	1.97	1.79	190.1	80.01	51.04	126.0	
07/13/69	6.0	10.0	222.1	131.22	131.12	0.10	0.25	3.4	18940.9	98.9	1273.2	1.51	159.9	899.0	7.0	1.67	1.52	169.9	79.96	51.16	125.8	
07/20/69	6.0	10.0	222.1	131.20	131.32	-0.12	0.89	12.3	19191.8	250.9	1279.3	2.89	306.6	1337.8	13.4	1.58	1.44	152.5	79.94	51.38	126.4	
07/27/69	6.0	10.0	222.1	131.30	131.34	-0.04	3.71	51.5	19212.9	21.2	1279.8	1.12	119.4	518.5	5.2	1.51	1.37	146.5	80.05	51.29	127.8	
08/03/69	6.0	10.0	222.1	131.52	131.40	0.12	4.02	55.8	19294.7	81.8	1281.8	1.58	168.5	731.4	7.3	1.37	1.25	133.0	80.12	51.28	127.4	
08/10/69	6.0	10.0	222.1	131.54	131.62	-0.08	5.32	73.9	19578.6	281.8	1288.7	3.39	362.1	1569.3	15.7	1.20	1.09	116.6	80.19	51.43	127.6	
08/17/69	6.0	10.0	222.1	131.56	131.60	-0.04	10.93	151.8	19551.5	-25.1	1288.1	1.36	146.1	829.6	6.3	1.22	1.11	119.2	80.23	51.37	128.6	
08/24/69	6.0	10.0	222.1	131.68	131.61	0.07	10.37	143.9	19567.6	16.1	1288.5	1.70	182.5	787.0	7.9	1.27	1.16	124.1	80.51	51.10	128.4	
08/31/69	6.0	10.0	222.1	131.58	131.59	-0.01	10.73	148.9	19535.2	-32.4	1287.7	1.20	128.8	555.5	5.6	1.23	1.05	112.3	80.59	51.00	127.8	
09/07/69	6.0	10.0	222.1	131.62	131.66	-0.06	10.01	138.9	19652.4	117.3	1290.5	2.51	269.3	1161.9	11.6	1.31	1.11	119.5	80.72	50.96	127.4	
09/14/69	6.0	10.0	222.1	131.52	131.58	-0.06	12.71	176.4	19519.5	-133.0	1287.3	0.71	76.4	326.7	3.3	1.43	1.22	130.7	80.69	50.88	127.6	
09/21/69	6.0	10.0	222.1	131.54	131.63	-0.09	9.66	134.2	19591.6	72.1	1289.1	1.85	198.5	856.4	8.6	1.05	0.89	96.7	80.67	50.96	127.1	
09/28/69	6.0	10.0	222.1	131.52	131.67	-0.15	11.27	156.5	19642.7	51.1	1290.3	1.89	203.0	874.9	8.7	1.21	0.92	98.7	81.05	50.61	127.5	
10/05/69	6.0	10.0	222.1	131.65	131.83	-0.18	12.47	173.2	19854.1	211.3	1295.4	3.00	322.6	1388.8	13.9	0.58	0.44	47.4	81.28	50.57	126.7	
10/12/69	6.0	10.0	222.1	131.78	131.6																	

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/04/70	6.0	10.0	222.1	131.92	131.68	0.24	13.42	186.3	19652.6	-29.1	1290.5	0.89	95.8	412.0	4.1	0.49	0.28	40.6	82.10	48.58	124.2
01/11/70	6.0	10.0	222.1	132.05	131.79	0.29	12.71	176.5	19791.6	139.0	1293.9	2.33	250.6	1076.6	10.8	0.53	0.41	43.9	82.25	48.54	124.2
01/18/70	6.0	10.0	222.1	132.18	131.73	0.43	16.23	225.3	19713.1	-78.5	1292.0	0.65	70.1	300.9	3.0	0.29	0.22	24.1	82.53	48.20	124.4
01/25/70	6.0	10.0	222.1	132.10	131.92	0.48	14.20	197.2	19677.0	-196.0	1288.7	0.10	10.8	46.3	0.5	0.50	0.45	48.9	82.55	49.07	123.3
02/01/70	6.0	10.0	222.1	132.06	131.57	0.49	10.94	151.9	19511.9	-85.1	1287.1	0.35	37.6	162.0	1.6	0.70	0.48	51.9	82.50	49.07	122.7
02/08/70	6.0	10.0	222.1	132.68	132.07	0.61	9.50	131.9	20154.7	842.8	1302.6	6.47	694.0	2995.1	30.0	0.68	0.48	48.8	83.31	48.76	122.5
02/15/70	6.0	10.0	222.1	132.52	131.81	0.71	26.77	371.8	19823.5	-331.2	1294.7	0.02	2.2	9.3	0.1	0.81	0.56	80.7	83.32	48.49	123.2
02/22/70	6.0	10.0	222.1	132.52	131.76	0.76	17.06	237.1	19752.1	-71.5	1292.9	1.13	121.9	523.1	5.2	0.63	0.57	61.8	83.43	48.32	121.8
03/01/70	6.0	10.0	222.1	132.44	131.65	0.79	15.20	211.0	19611.2	-140.8	1289.5	0.30	32.3	138.0	1.4	0.82	0.60	64.5	83.63	48.01	121.2
03/08/70	6.0	10.0	222.1	132.42	131.69	0.73	11.73	162.8	19666.7	55.5	1290.9	1.64	178.2	759.2	7.6	0.88	0.63	67.5	83.75	47.94	120.1
03/15/70	6.0	10.0	222.1	132.34	131.61	0.73	13.05	181.2	19563.2	-103.5	1288.4	0.63	67.8	291.6	2.9	1.21	0.88	95.0	83.70	47.91	120.1
03/22/70	6.0	10.0	222.1	132.26	131.52	0.74	10.63	147.8	19441.7	-121.6	1285.4	0.06	6.4	27.8	0.3	1.08	0.77	83.1	83.79	47.72	119.8
03/29/70	6.0	10.0	222.1	132.70	131.87	0.83	8.04	111.7	19899.5	457.8	1296.5	5.22	559.2	2416.4	24.2	1.30	1.09	117.0	84.00	47.87	119.0
04/05/70	6.0	10.0	222.1	132.68	131.85	0.83	19.17	266.2	19673.8	-25.7	1295.9	2.19	236.6	1013.8	10.1	1.19	1.00	108.0	84.34	47.51	120.4
04/12/70	6.0	10.0	222.1	132.72	131.69	1.03	18.45	256.2	19664.4	-209.4	1290.8	0.68	73.4	314.8	3.1	1.46	1.23	132.4	84.44	47.25	119.5
04/19/70	6.0	10.0	222.1	132.48	131.51	0.97	13.00	180.4	19438.6	-225.7	1285.3	0.00	0.0	0.0	0.0	1.65	1.39	149.1	84.61	46.90	118.4
04/26/70	6.0	10.0	222.1	132.32	131.42	0.90	7.98	110.8	19318.8	-119.8	1282.4	0.11	11.8	50.9	0.5	1.44	1.18	126.5	84.55	46.87	117.0
05/03/70	6.0	10.0	222.1	132.18	131.33	0.85	5.74	79.7	19198.3	-120.5	1279.5	0.00	0.0	0.0	0.0	1.67	1.37	146.3	84.38	46.86	116.6
05/10/70	6.0	10.0	222.1	132.04	131.24	0.80	3.81	52.8	19084.3	-114.0	1276.7	0.05	5.3	23.1	0.2	1.97	1.62	172.2	84.16	47.07	116.6
05/17/70	6.0	10.0	222.1	131.92	131.43	0.49	2.30	32.0	19329.4	246.1	1282.7	3.25	345.8	1504.5	15.0	2.17	1.78	189.3	84.08	47.34	116.8
05/24/70	6.0	10.0	222.1	131.84	131.37	0.47	6.92	82.2	19253.9	-75.6	1280.8	0.39	41.7	180.5	1.8	1.61	1.32	141.1	84.12	47.25	117.8
05/31/70	6.0	10.0	222.1	132.12	131.59	0.53	4.85	64.6	19538.7	284.8	1287.8	3.24	345.8	1499.9	15.0	1.28	1.06	116.1	84.05	47.54	117.4
06/07/70	6.0	10.0	222.1	132.00	131.54	0.46	10.98	140.0	19479.4	-59.2	1286.3	1.11	119.1	513.8	5.1	1.61	1.37	146.9	84.01	47.54	118.8
06/14/70	6.0	10.0	222.1	131.88	131.42	0.46	8.81	122.4	19324.9	-154.6	1282.6	0.18	19.3	83.3	0.8	1.71	1.45	155.8	83.86	47.56	118.7
06/21/70	6.0	10.0	222.1	131.80	131.36	0.42	5.84	81.1	19262.0	-82.9	1281.0	0.61	65.2	282.4	2.8	1.60	1.44	153.5	83.75	47.62	118.4
06/28/70	6.0	10.0	222.1	132.14	131.68	0.46	4.78	66.4	19651.8	389.8	1290.5	4.63	494.3	2143.3	21.4	1.68	1.53	163.2	83.82	47.86	118.4
07/05/70	6.0	10.0	222.1	131.98	131.58	0.40	12.69	176.2	19521.3	-120.5	1287.4	0.90	96.8	416.6	4.2	1.61	1.47	157.6	83.93	47.65	119.8
07/12/70	6.0	10.0	222.1	132.06	131.69	0.37	9.70	134.7	19686.4	144.1	1290.8	2.80	300.4	1296.2	13.0	1.41	1.28	137.7	83.89	47.79	119.0
07/19/70	6.0	10.0	222.1	132.00	131.52	0.48	13.02	180.8	19443.6	-221.8	1285.5	0.10	10.8	46.3	0.5	1.58	1.44	154.7	83.77	47.75	119.7
07/26/70	6.0	10.0	222.1	131.96	131.66	0.30	8.08	112.2	19632.2	188.6	1290.0	2.93	313.9	1368.3	13.6	1.33	1.21	129.6	83.73	47.94	119.1
08/02/70	6.0	10.0	222.1	131.92	131.55	0.37	12.22	169.7	19482.7	-149.5	1286.4	0.63	67.7	291.6	2.9	1.56	1.42	152.6	83.69	47.86	120.0
08/09/70	6.0	10.0	222.1	132.18	131.43	0.75	8.88	123.3	19338.2	-144.5	1282.9	0.21	22.5	97.2	1.0	1.51	1.37	147.3	83.90	47.53	119.5
08/16/70	6.0	10.0	222.1	132.30	131.67	0.33	6.08	84.4	20033.3	695.1	1299.7	6.52	697.0	3018.2	30.2	0.53	0.48	51.6	83.93	48.05	118.3
08/23/70	6.0	10.0	222.1	132.30	131.83	0.47	23.05	320.1	19847.5	-195.8	1295.3	1.63	176.5	754.6	7.5	1.53	1.39	150.8	84.13	47.70	121.2
08/30/70	6.0	10.0	222.1	132.22	131.84	0.38	17.73	246.2	19865.4	17.9	1295.7	2.44	263.4	1129.5	11.3	1.23	1.05	112.8	84.11	47.73	119.9
09/06/70	6.0	10.0	222.1	132.10	131.69	0.44	18.22	253.0	19634.4	-231.0	1290.1	0.69	74.5	319.4	3.2	1.72	1.46	157.9	84.24	47.42	120.0
09/13/70	6.0	10.0	222.1	132.08	131.64	0.54	12.28	170.4	19468.9	-165.5	1286.1	0.14	15.1	64.8	0.6	1.25	1.06	114.2	84.31	47.23	118.7
09/20/70	6.0	10.0	222.1	131.96	131.51	0.45	8.59	119.3	19440.3	-28.5	1285.4	1.02	109.3	472.2	4.7	1.40	1.19	127.5	84.31	47.21	117.9
09/27/70	6.0	10.0	222.1	131.88	131.44	0.44	8.01	111.3	19345.3	-85.0	1283.1	0.02	2.1	9.3	0.1	1.11	0.84	90.4	84.24	47.20	117.7
10/04/70	6.0	10.0	222.1	131.74	131.36	0.38	6.21	86.2	19246.8	-96.6	1280.7	0.00	0.0	0.0	0.0	1.44	1.06	117.0	84.07	47.29	117.5
10/11/70	6.0	10.0	222.1	131.66	131.31	0.35	4.54	63.1	19174.0	-72.8	1278.9	0.00	0.0	0.0	0.0	1.41	1.07	114.4	84.05	47.26	117.5
10/18/70	6.0	10.0	222.1	131.56	131.26	0.30	3.46	48.0	19119.9	-54.1	1277.6	0.00	0.0	0.0	0.0	1.37	1.04	111.0	83.91	47.35	117.3
10/25/70	6.0	10.0	222.1	131.62	131.37	0.25	2.74	38.0	19255.6	135.7	1280.9	1.32	140.5	611.1	6.1	0.96	0.73	77.7	83.82	47.55	117.4
11/01/70	6.0	10.0	222.1	131.68	131.40	0.28	4.68	65.0	19300.3	-44.7	1282.0	0.65	69.4	300.9	3.0	0.88	0.82	96.7	83.67	47.73	118.2
11/08/70	6.0	10.0	222.1	131.54	131.37	0.17	5.42	75.2	19260.2	-40.1	1281.0	0.00	0.0	0.0	0.0	0.90	0.84	96.3	83.50	47.87	118.7
11/15/70	6.0	10.0	222.1	131.50	131.37	0.13	4.76	66.0	19251.6	-8.6	1280.8	0.12	12.8	56.6	0.6	0.78	0.55	59.1	83.39	47.98	119.0
11/22/70	6.0	10.0	222.1	131.44	131.36	0.09	4.62	64.1	19234.3	-17.3	1280.4	0.00	0.0	0.0	0.0	0.74	0.53	56.1	83.29	48.06	119.2
11/29/70	6.0	10.0	222.1	131.38	131.34	0.02	4.35	60.4	19219.8	-14.5	1280.0	0.03	3.2	13.9	0.1	0.68	0.56	60.2	83.04	48.30	119.4
12/06/70	6.0	10.0	222.1	131.40	131.33	0.07	4.13	57.3	19201.0	-18.8	1279.6	0.00	0.0	0.0	0.0	0.72	0.60	63.7	82.93	48.39	120.0
12/13/70	6.0	10.0	222.1	131.36	131.31	0.05	3.84	53.4	19181.4	-19.5	1279.1	0.00	0.0	0.0	0.0	0.77	0.64	66.1	82.88	48.44	120.2
12/20/70	6.0	10.0	222.1	131.35	131.35	-0.00	3.56	49.5	19235.3	53.9	1280.4	0.49	52.2	226.8	2.3	0.60	0.50	53.1	82.80	48.56	120.2
12/27/70	6.0	10.0	222.1	131.40	131.37	0.03	4.36	60.6	19261.2	25.9	1281.0	0.30	32.0	138.9	1.4	0.59	0.45	48.5	82.90	48.47	120.6
01/03/71	6.0	10.0	222.1	131.46	131.48	-0.02	4.77	66.2	19399.6	138.4	1284.4	1.36	145.2	629.6	6.3	0.59	0.45	48.5	82.73	48.75	120.5

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083				Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5566 Runoff Coeff. = 0.01		Galveston Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/04/71	6.0	10.0	222.1	131.52	131.34	0.18	5.56	77.2	19221.9	-86.8	1280.1	0.10	10.7	46.3	0.5	1.36	1.13	121.2	82.58	48.78	121.7		
04/11/71	6.0	10.0	222.1	131.52	131.48	0.04	4.16	57.7	19396.8	174.9	1284.3	2.39	254.9	1106.4	11.1	1.50	1.26	134.4	82.38	48.10	121.1		
04/18/71	6.0	10.0	222.1	131.50	131.37	0.13	7.16	99.4	19252.4	-144.4	1280.8	0.00	0.0	0.0	0.0	1.61	1.36	144.7	82.37	48.98	122.4		
04/25/71	6.0	10.0	222.1	131.52	131.30	0.22	4.63	64.3	19180.0	-82.4	1278.5	0.19	20.3	88.0	0.9	1.71	1.40	149.7	82.37	48.93	121.7		
05/02/71	6.0	10.0	222.1	131.48	131.28	0.20	3.26	45.3	19136.2	-21.8	1278.0	0.46	49.0	212.9	2.1	1.47	1.21	128.4	82.28	49.00	121.4		
05/09/71	6.0	10.0	222.1	131.42	131.34	0.08	2.97	41.3	19087.3	-50.9	1276.8	0.43	45.8	190.1	2.0	1.81	1.48	168.1	82.05	49.10	121.5		
05/16/71	6.0	10.0	222.1	131.40	131.29	0.11	2.34	32.4	19155.6	68.4	1276.4	1.16	123.4	537.0	5.4	1.47	1.21	128.3	82.02	49.27	121.9		
05/23/71	6.0	10.0	222.1	131.32	131.20	0.12	3.20	44.5	19043.8	-111.8	1275.7	0.02	2.1	9.3	0.1	1.94	1.59	169.5	81.78	49.44	122.2		
05/30/71	6.0	10.0	222.1	131.38	131.32	0.06	1.85	25.6	19186.2	142.4	1279.2	2.09	222.2	967.5	9.7	1.81	1.54	163.6	81.64	49.68	122.4		
06/06/71	6.0	10.0	222.1	131.38	131.34	0.04	3.63	50.4	19092.0	-84.2	1276.9	0.20	21.3	92.6	0.9	1.82	1.55	164.9	81.41	49.84	123.3		
06/13/71	6.0	10.0	222.1	131.42	131.22	0.20	2.39	33.2	19061.8	-30.2	1276.1	0.36	38.3	166.7	1.7	1.50	1.28	136.7	81.38	49.84	123.5		
06/20/71	6.0	10.0	222.1	131.44	131.27	0.17	2.04	28.4	19131.2	69.5	1277.8	1.45	164.2	671.2	6.7	1.79	1.52	161.8	81.33	49.95	123.4		
06/27/71	6.0	10.0	222.1	131.46	131.32	0.14	2.88	40.0	19190.9	59.7	1279.3	1.46	155.5	675.9	6.8	1.66	1.51	160.0	81.17	50.15	123.8		
07/04/71	6.0	10.0	222.1	131.32	131.31	0.01	3.70	51.4	19181.8	-0.2	1279.1	0.67	71.4	310.2	3.1	1.34	1.22	130.9	81.18	50.13	124.5		
07/11/71	6.0	10.0	222.1	131.40	131.39	0.01	3.57	49.5	19276.3	84.8	1281.4	1.83	195.1	847.1	8.5	1.62	1.47	157.1	81.16	50.20	124.4		
07/18/71	6.0	10.0	222.1	131.42	131.37	0.05	5.02	69.7	19249.4	-27.0	1280.7	1.01	107.9	467.5	4.7	1.72	1.57	167.1	81.16	50.21	124.8		
07/25/71	6.0	10.0	222.1	131.46	131.41	0.05	4.58	63.6	19306.7	60.3	1282.2	1.25	133.4	578.6	5.8	1.16	1.06	112.7	81.21	50.20	124.8		
08/01/71	6.0	10.0	222.1	131.48	131.57	-0.09	5.58	77.5	19508.7	199.0	1287.0	2.89	308.8	1337.8	13.4	1.47	1.34	142.9	81.12	50.45	124.9		
08/08/71	6.0	10.0	222.1	131.42	131.56	-0.14	9.43	131.0	19606.6	-3.1	1287.0	1.67	179.1	773.1	7.7	1.59	1.46	156.2	81.07	50.49	126.0		
08/15/71	6.0	10.0	222.1	131.80	131.71	-0.11	9.36	130.0	19695.3	189.7	1291.6	3.02	323.9	1398.0	14.0	1.17	1.06	114.2	81.16	50.55	126.1		
08/22/71	6.0	10.0	222.1	131.82	131.87	-0.05	13.76	191.0	19697.0	201.8	1296.2	3.80	409.0	1759.1	17.6	1.32	1.20	129.3	81.22	50.65	126.7		
08/29/71	6.0	10.0	222.1	131.72	131.78	-0.06	19.10	265.2	19786.4	-107.6	1293.8	1.52	164.2	703.6	7.0	1.18	1.00	108.4	81.30	50.48	127.4		
09/05/71	6.0	10.0	222.1	131.74	131.70	0.04	16.17	224.5	19678.1	-111.4	1291.2	1.25	134.8	578.6	5.8	1.34	1.14	122.8	81.29	50.41	126.7		
09/12/71	6.0	10.0	222.1	131.96	131.71	0.25	13.33	185.1	19696.7	18.8	1291.6	1.98	213.0	916.6	9.2	1.25	1.06	114.3	81.47	50.24	126.3		
09/19/71	6.0	10.0	222.1	131.92	131.55	0.37	13.79	191.5	19492.6	-204.1	1288.7	0.09	9.7	41.7	0.4	1.30	1.11	118.9	81.53	50.03	125.9		
09/26/71	6.0	10.0	222.1	131.95	131.48	0.38	9.99	126.2	19402.0	-90.6	1284.5	0.44	47.2	203.7	2.0	1.36	1.03	110.8	81.52	49.97	124.8		
10/03/71	6.0	10.0	222.1	131.88	131.39	0.29	7.26	100.8	19295.7	-116.3	1281.6	0.00	0.0	0.0	0.0	1.39	1.06	113.1	81.26	50.14	124.5		
10/10/71	6.0	10.0	222.1	131.82	131.50	0.12	5.17	71.8	19416.4	130.7	1284.8	1.89	201.9	874.9	8.7	1.30	0.99	105.5	81.50	49.99	124.7		
10/17/71	6.0	10.0	222.1	131.82	131.56	0.26	7.54	104.7	19497.3	80.8	1286.6	1.32	141.3	611.1	6.1	0.73	0.55	59.4	81.46	50.10	124.6		
10/24/71	6.0	10.0	222.1	131.78	131.54	0.24	9.19	127.8	19468.9	-28.4	1286.1	0.74	79.4	342.6	3.4	0.99	0.75	80.7	81.53	50.01	125.1		
10/31/71	6.0	10.0	222.1	131.80	131.52	0.28	8.59	119.3	19446.8	-22.0	1285.5	0.51	64.7	236.1	2.4	0.75	0.53	57.1	81.46	50.06	124.8		
11/07/71	6.0	10.0	222.1	131.70	131.46	0.24	8.15	113.1	19373.2	-73.6	1283.8	0.32	34.3	148.1	1.5	1.23	0.87	93.6	81.41	50.06	124.9		
11/14/71	6.0	10.0	222.1	131.58	131.42	0.16	6.72	93.3	19325.9	-47.3	1282.6	0.09	9.6	41.7	0.4	0.81	0.58	61.5	81.32	50.11	124.7		
11/21/71	6.0	10.0	222.1	131.52	131.40	0.12	5.86	81.4	19290.9	-35.1	1281.7	0.12	12.8	55.6	0.6	0.85	0.60	64.5	81.38	50.02	124.7		
11/28/71	6.0	10.0	222.1	131.44	131.38	0.06	5.26	73.0	19272.6	-18.2	1281.3	0.06	6.4	27.8	0.3	0.56	0.46	49.8	81.33	50.06	124.4		
12/05/71	6.0	10.0	222.1	131.72	131.70	0.02	4.96	68.8	19681.3	408.7	1291.2	3.99	426.0	1847.0	18.5	0.73	0.61	64.7	81.35	50.35	124.5		
12/12/71	6.0	10.0	222.1	131.78	131.81	0.17	13.41	186.2	19565.3	408.7	1284.4	0.06	8.6	37.0	0.4	0.39	0.32	34.8	81.49	50.13	126.2		
12/19/71	6.0	10.0	222.1	131.68	131.52	0.16	10.87	148.2	19443.9	-121.3	1285.5	0.02	2.1	9.3	0.1	0.81	0.67	72.2	81.49	50.02	125.3		
12/26/71	6.0	10.0	222.1	131.76	131.53	0.23	8.09	112.3	19456.0	12.1	1285.8	0.64	68.6	295.3	3.0	0.54	0.42	44.5	81.54	49.98	124.8		
01/02/72	6.0	10.0	222.1	131.76	131.49	0.27	8.33	115.7	19404.1	-51.9	1284.5	0.23	24.6	106.5	1.1	0.72	0.55	59.4	81.73	49.75	124.7		
01/09/72	6.0	10.0	222.1	131.68	131.50	0.18	7.30	101.4	19416.7	12.7	1284.8	0.60	64.2	277.8	2.8	0.62	0.48	51.1	81.80	49.70	124.0		
01/16/72	6.0	10.0	222.1	131.71	131.80	0.11	7.55	104.8	19549.0	132.3	1288.0	1.73	185.2	800.8	8.0	0.66	0.51	54.4	81.82	49.78	123.9		
01/23/72	6.0	10.0	222.1	131.75	131.65	0.10	10.31	143.2	19617.5	68.5	1289.7	1.48	156.7	675.9	6.8	0.60	0.46	49.6	81.92	49.73	124.4		
01/30/72	6.0	10.0	222.1	131.78	131.84	0.14	11.88	164.9	19597.8	-19.7	1289.2	0.88	94.6	407.4	4.1	0.69	0.48	51.2	82.07	49.56	124.4		
02/06/72	6.0	10.0	222.1	131.82	131.86	0.16	11.42	158.5	19625.9	28.2	1289.9	1.20	128.9	555.5	5.6	0.62	0.43	46.0	81.99	49.67	124.0		
02/13/72	6.0	10.0	222.1	131.86	131.83	0.23	12.07	167.7	19593.9	-32.1	1289.1	0.78	83.8	361.1	3.6	0.67	0.46	49.7	82.34	49.30	124.3		
02/20/72	6.0	10.0	222.1	131.88	131.85	0.23	11.33	157.3	19614.1	20.2	1289.6	1.35	145.0	624.9	6.2	0.68	0.66	72.6	82.30	49.35	123.3		
02/27/72	6.0	10.0	222.1	131.82	131.54	0.28	11.80	163.8	19474.9	-139.2	1284.2	0.06	6.4	27.8	0.3	1.03	0.75	80.8	82.42	49.13	123.5		
03/05/72	6.0	10.0	222.1	131.90	131.82	0.28	8.72	121.1	19583.1	108.2	1288.9	2.07	221.9	968.2	9.6	1.30	0.95	101.7	82.46	49.16	122.6		
03/12/72	6.0	10.0	222.1	131.82	131.50	0.32	11.08	153.8	19423.4	-159.7	1285.0	0.00	0.0	0.0	0.0	1.34	0.98	105.1	82.38	49.12	122.9		
03/19/72	6.0	10.0	222.1	131.78	131.43	0.35	7.68	106.6	19326.5	-87.0	1282.6	0.16	17.1	74.1	0.7	1.38	1.01	107.9	82.38	49.04	122.5		
03/26/72	6.0	10.0	222.1	131.86	131.22	0.34	5.87	81.5	19193.5	-132.9	1279.4	0.91	1.1	4.8	0.0	1.70	1.43	152.6	82.43	48.89	122.1		
04/02/72	6.0	10.0	222.1	131.76	131.73	0.03	3.74	51.9	19721.2	527.7	1292.2	5.27	561.9	2439.6	24.0								

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-foot	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-foot	Change in Sand Hill Volume During Week ac-foot	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-foot	Drainage area = 5555		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-foot	Leakance = 2.772E-04 1/day						
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Send Hill Discharge cfs	Send Hill Discharge ac-foot						Send Hill Volume at Start of Week ac-foot	Change in Sand Hill Volume During Week ac-foot				Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-foot	Overland Runoff Volume ac-foot	Floridan Aquifer Elevation elev	Floridan Aquifer Elevation ft	Send Hill Leakage ac-foot
07/02/72	6.0	10.0	222.1	132.20	131.78	0.44	27.40	380.5	19751.3	-423.8	1292.9	0.28	30.4	129.6	1.3	1.75	1.59	172.9	83.19	48.56	124.0				
07/09/72	6.0	10.0	222.1	132.12	131.58	0.54	15.18	210.7	19520.6	-230.5	1287.3	0.72	77.6	333.3	3.3	2.05	1.87	201.0	83.24	48.33	121.8				
07/16/72	6.0	10.0	222.1	132.08	131.44	0.64	9.69	134.6	19350.1	-170.8	1283.2	0.21	22.5	87.2	1.0	1.95	1.50	161.1	83.21	48.29	120.7				
07/23/72	6.0	10.0	222.1	131.92	131.36	0.56	9.29	87.4	19241.3	-108.8	1280.5	0.28	29.9	129.6	1.3	1.59	1.46	154.7	83.21	48.15	120.1				
07/30/72	6.0	10.0	222.1	131.82	131.41	0.41	4.46	61.9	19308.9	87.7	1282.2	1.83	195.3	847.1	8.5	1.82	1.96	176.7	82.98	48.43	119.8				
08/06/72	6.0	10.0	222.1	131.92	131.46	0.46	5.57	77.3	19371.3	82.4	1283.7	1.78	180.2	824.0	8.2	1.65	1.50	180.4	82.83	48.63	120.5				
08/13/72	6.0	10.0	222.1	131.92	131.38	0.54	6.68	92.8	19288.2	-103.0	1281.2	0.12	12.8	55.6	0.6	1.28	1.16	124.6	82.85	48.73	121.1				
08/20/72	6.0	10.0	222.1	131.72	131.29	0.43	4.89	67.9	19154.0	-114.3	1278.4	0.15	16.0	69.4	0.7	1.69	1.54	164.2	82.73	48.56	121.1				
08/27/72	6.0	10.0	222.1	132.37	132.11	0.26	3.18	44.2	20215.8	1061.8	1304.1	10.02	1067.5	4638.4	46.4	1.21	1.03	109.6	83.41	48.70	120.5				
09/03/72	6.0	10.0	222.1	132.32	131.87	0.45	28.70	368.5	19898.4	-317.3	1296.5	1.05	114.1	486.1	4.9	1.48	1.26	136.7	83.59	48.28	123.2				
09/10/72	6.0	10.0	222.1	132.18	131.66	0.52	19.14	265.8	19626.5	-271.9	1289.9	0.16	17.3	74.1	0.7	1.36	1.16	124.9	83.56	48.10	121.4				
09/17/72	6.0	10.0	222.1	132.09	131.50	0.59	12.09	167.8	19421.1	-205.5	1284.9	0.02	2.1	9.3	0.1	1.55	1.32	141.8	83.61	47.89	120.4				
09/24/72	6.0	10.0	222.1	132.00	131.41	0.59	7.63	106.0	19310.7	-110.4	1282.2	0.17	18.2	78.7	0.8	1.56	1.18	126.1	83.51	47.90	119.4				
10/01/72	6.0	10.0	222.1	131.92	131.41	0.51	5.60	77.7	19311.9	1.2	1282.3	0.76	81.2	261.8	3.5	1.34	1.02	106.8	83.61	47.81	119.2				
10/08/72	6.0	10.0	222.1	131.80	131.38	0.42	5.62	78.0	19270.4	-41.4	1281.2	0.32	34.2	148.1	1.5	1.26	0.96	102.3	83.52	47.86	118.9				
10/15/72	6.0	10.0	222.1	131.72	131.34	0.38	4.82	68.3	19219.6	-50.8	1280.0	0.04	4.3	18.5	0.2	1.11	0.96	90.1	83.52	48.06	119.0				
10/22/72	6.0	10.0	222.1	131.64	131.31	0.33	4.12	57.2	19176.8	-42.8	1279.0	0.00	0.0	0.0	0.0	1.09	0.83	86.4	83.17	48.14	118.4				
10/29/72	6.0	10.0	222.1	131.62	131.34	0.28	3.50	48.6	19223.1	46.2	1280.1	0.63	67.1	291.6	2.9	1.03	0.73	77.9	83.01	48.33	118.5				
11/05/72	6.0	10.0	222.1	131.60	131.34	0.26	4.17	58.0	19214.6	-5.5	1279.9	0.16	17.1	74.1	0.7	0.93	0.86	70.4	83.12	48.22	120.1				
11/12/72	6.0	10.0	222.1	131.72	131.52	0.20	4.05	56.2	19462.9	238.4	1285.7	2.21	236.7	1023.0	10.2	0.71	0.50	53.8	83.18	48.34	119.8				
11/19/72	6.0	10.0	222.1	131.70	131.61	0.09	8.27	114.8	19563.3	110.3	1288.4	1.83	174.8	754.6	7.5	0.77	0.56	58.8	83.16	48.45	120.6				
11/26/72	6.0	10.0	222.1	131.82	131.71	0.11	10.63	147.8	19692.8	129.6	1291.5	2.05	220.1	949.0	9.5	0.80	0.50	53.5	83.20	48.42	121.1				
12/03/72	6.0	10.0	222.1	131.88	131.73	0.15	13.70	190.2	19719.5	26.7	1292.2	1.36	146.4	629.6	6.3	0.41	0.34	36.6	83.17	48.56	121.3				
12/10/72	6.0	10.0	222.1	131.84	131.62	0.22	14.36	199.4	19582.5	-137.0	1288.6	0.02	2.2	9.3	0.1	0.45	0.37	40.2	83.12	48.51	121.8				
12/17/72	6.0	10.0	222.1	131.92	131.61	0.31	11.07	153.6	19561.1	-21.4	1286.3	1.02	109.6	472.2	4.7	0.93	0.77	82.9	83.19	48.41	121.3				
12/24/72	6.0	10.0	222.1	132.02	131.70	0.23	10.58	148.9	19790.3	229.2	1293.9	2.78	298.5	1286.9	12.9	0.44	0.34	36.4	83.23	48.56	121.0				
12/31/72	6.0	10.0	222.1	131.92	131.67	0.25	16.19	224.8	19637.2	-153.0	1290.2	0.19	20.5	88.0	0.9	0.60	0.46	49.8	83.27	48.39	121.9				
01/07/73	6.0	10.0	222.1	131.92	131.59	0.33	12.34	171.4	19533.1	-104.1	1287.6	0.12	12.9	55.6	0.6	0.57	0.44	47.2	83.25	48.34	121.1				
01/14/73	6.0	10.0	222.1	131.90	131.64	0.26	9.96	138.3	19602.2	69.1	1289.3	1.22	130.9	564.8	5.6	0.37	0.28	30.6	83.25	48.30	120.8				
01/21/73	6.0	10.0	222.1	131.92	131.55	0.37	11.52	159.9	19481.3	-120.9	1286.4	0.00	0.0	0.0	0.0	0.75	0.58	62.0	83.27	48.27	121.1				
01/28/73	6.0	10.0	222.1	131.97	131.74	0.23	8.85	122.9	19725.8	244.5	1292.3	2.82	302.3	1306.4	13.1	0.67	0.46	49.6	83.29	48.45	120.5				
02/04/73	6.0	10.0	222.1	132.02	131.75	0.27	14.52	201.7	19748.5	22.8	1292.9	1.59	171.2	736.0	7.4	0.74	0.51	55.0	83.44	48.31	121.5				
02/11/73	6.0	10.0	222.1	132.02	131.77	0.25	15.10	209.7	19770.8	22.4	1293.4	1.83	175.6	754.6	7.5	0.70	0.48	52.0	83.75	48.02	121.2				
02/18/73	6.0	10.0	222.1	131.97	131.72	0.25	15.68	217.7	19701.0	-69.8	1291.7	1.06	114.3	490.7	4.9	0.98	0.68	72.9	83.65	48.07	120.5				
02/25/73	6.0	10.0	222.1	131.92	131.59	0.33	13.90	193.0	19543.9	-157.1	1287.9	0.03	3.2	13.9	0.1	0.88	0.64	69.1	83.54	48.05	120.5				
03/04/73	6.0	10.0	222.1	131.87	131.50	0.37	10.20	141.6	19420.4	-123.5	1284.9	0.02	2.1	9.3	0.1	1.10	0.80	86.2	83.45	48.05	120.1				
03/11/73	6.0	10.0	222.1	132.02	131.62	0.40	7.62	105.8	19579.3	158.9	1288.8	2.09	223.8	967.5	9.7	0.91	0.66	71.1	83.56	48.06	119.8				
03/18/73	6.0	10.0	222.1	131.92	131.50	0.42	10.99	152.8	19416.0	-160.3	1284.9	0.12	12.9	55.6	0.6	1.57	1.15	123.1	83.61	47.89	120.2				
03/25/73	6.0	10.0	222.1	131.92	131.60	0.32	7.59	105.4	19555.4	136.4	1288.2	2.38	254.8	1101.7	11.0	1.41	1.18	126.8	83.73	47.88	119.4				
04/01/73	6.0	10.0	222.1	132.12	131.75	0.37	10.45	145.1	19730.0	183.8	1292.6	2.85	305.9	1319.3	13.2	1.03	0.87	92.9	84.09	47.65	119.7				
04/08/73	6.0	10.0	222.1	132.36	131.90	0.46	14.86	206.3	19644.7	205.7	1297.6	3.87	427.6	1837.8	18.4	1.27	1.06	136.6	84.19	47.72	119.5				
04/15/73	6.0	10.0	222.1	132.22	131.65	0.57	20.45	284.0	19619.2	-325.5	1286.7	0.00	0.0	0.0	0.0	1.58	1.33	143.5	84.16	47.49	120.1				
04/22/73	6.0	10.0	222.1	132.12	131.49	0.63	11.82	165.4	19403.7	-215.5	1284.5	0.00	0.0	0.0	0.0	1.74	1.43	153.3	84.21	47.27	118.8				
04/29/73	6.0	10.0	222.1	132.00	131.41	0.59	7.29	101.3	19306.1	-94.8	1282.2	0.47	50.3	217.6	2.2	1.71	1.40	150.1	84.16	47.25	117.8				
05/06/73	6.0	10.0	222.1	131.67	131.32	0.35	5.57	77.3	19186.6	-122.6	1279.2	0.00	0.0	0.0	0.0	1.71	1.40	149.8	84.14	47.18	117.5				
05/13/73	6.0	10.0	222.1	131.90	131.32	0.58	3.84	50.5	19197.6	11.0	1279.5	1.29	137.5	597.2	6.0	2.14	1.75	187.1	84.15	47.18	117.1				
05/20/73	6.0	10.0	222.1	131.92	131.25	0.67	3.80	52.7	19100.4	-97.2	1277.1	0.00	0.0	0.0	0.0	1.71	1.40	149.5	83.85	47.40	117.1				
05/27/73	6.0	10.0	222.1	131.95	131.29	0.66	2.49	34.8	19159.5	59.1	1278.5	1.82	172.4	749.9	7.5	2.11	1.79	190.9	83.94	47.35	117.5				
06/03/73	6.0	10.0	222.1	131.97	131.31	0.66	3.26	45.2	19178.3	18.8	1279.0	1.06	112.9	490.7	4.9	1.75	1.49	158.5	83.81	47.50	117.5				
06/10/73	6.0	10.0	222.1	131.94	131.27	0.67	3.52	48.9	19123.9	-54.4	1277.7	0.85	89.3	300.9	3.0	2.01	1.71	182.1	83.75	47.52	117.9				
06/17/73	6.0	10.0	222.1	132.15	131.48	0.67	2.79	38.7	19391.8	267.9	1284.2	3.14	334.3	1453.6	14.5	1.62	1.38	146.6	83.82	47.65	117.8				
06/24/73	6.0	10.0	222.1	132.52	131.58	0.94	7.07	98.1	19526.9	135.1	1287.5	2.48	265.4	1148.0	11.5	1.51	1.37	147.1	84.24	47.34	118.7				
07/01/73	6.0	10.0	222.1	132.32	131.49	0.83	9.83	136.4	19410.0	-116.9	1284.8	0.45	48.3	208.3	2.1	1.38	1.26	134.7							

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gaineville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakage = 2.772E-04 1/day						
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						C1 = 10702299.5	C2 = -241893.95				C3 = 1822.0827	C4 = -4.574083	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
10/07/73	6.0	10.0	222.1	131.82	131.38	0.56	5.56	77.2	19244.1	-64.7	1280.6	0.22	23.5	101.8	1.0	1.45	1.10	117.7	84.68	46.68	116.3				
10/14/73	6.0	10.0	222.1	131.82	131.31	0.51	4.50	62.5	19177.5	-66.6	1279.0	0.00	0.0	0.0	0.0	1.36	1.03	110.3	84.55	46.75	116.0				
10/21/73	6.0	10.0	222.1	131.75	131.31	0.44	3.51	48.7	19181.2	3.7	1279.1	0.26	27.7	120.4	1.2	1.02	0.78	82.6	84.59	46.72	116.0				
10/28/73	6.0	10.0	222.1	131.70	131.30	0.40	3.56	49.4	19186.4	-14.8	1278.7	0.03	3.2	13.9	0.1	0.99	0.70	74.9	84.51	46.79	115.9				
11/04/73	6.0	10.0	222.1	131.66	131.35	0.31	3.35	46.5	19229.7	63.3	1280.3	0.66	70.3	305.5	3.1	0.92	0.66	69.8	84.37	46.98	116.1				
11/11/73	6.0	10.0	222.1	131.62	131.33	0.29	4.28	59.4	19186.4	-31.2	1279.5	0.02	2.1	9.3	0.1	1.05	0.75	79.5	84.24	47.08	116.7				
11/18/73	6.0	10.0	222.1	131.58	131.31	0.27	3.81	52.9	19176.6	-21.8	1279.0	0.00	0.0	0.0	0.0	0.98	0.70	74.2	83.97	47.34	116.9				
11/25/73	6.0	10.0	222.1	131.57	131.29	0.28	3.50	48.5	19155.8	-20.8	1278.4	0.00	0.0	0.0	0.0	0.87	0.72	77.0	83.70	47.59	117.5				
12/02/73	6.0	10.0	222.1	131.56	131.29	0.27	3.21	44.5	19151.8	-4.0	1278.3	0.16	17.0	74.1	0.7	0.92	0.78	81.4	83.44	47.85	118.1				
12/09/73	6.0	10.0	222.1	131.57	131.43	0.14	3.16	43.8	19336.8	185.0	1282.9	1.66	176.8	788.4	7.7	0.67	0.56	59.2	83.30	48.05	118.7				
12/16/73	6.0	10.0	222.1	131.72	131.56	0.16	8.05	84.1	19497.7	180.9	1286.6	1.85	197.8	856.4	8.8	0.72	0.60	63.9	83.37	48.19	119.6				
12/23/73	6.0	10.0	222.1	131.78	131.57	0.21	9.20	127.7	19505.9	8.2	1287.0	0.74	79.4	342.8	3.4	0.59	0.45	48.7	83.33	48.23	120.3				
12/30/73	6.0	10.0	222.1	131.82	131.59	0.23	9.37	130.1	19539.0	27.1	1287.6	0.88	94.4	407.4	4.1	0.52	0.40	42.9	83.41	48.18	120.5				
01/06/74	6.0	10.0	222.1	131.80	131.52	0.28	9.96	138.3	19449.7	-83.3	1285.6	0.01	1.1	4.6	0.0	0.58	0.45	47.9	83.40	48.12	120.4				
01/13/74	6.0	10.0	222.1	131.77	131.46	0.31	8.20	113.9	19372.7	-77.0	1283.7	0.00	0.0	0.0	0.0	0.79	0.61	65.2	83.29	48.17	120.0				
01/20/74	6.0	10.0	222.1	131.72	131.43	0.29	8.71	93.1	19320.9	-42.9	1282.7	0.00	0.0	0.0	0.0	0.63	0.49	51.9	83.30	48.13	120.0				
01/27/74	6.0	10.0	222.1	131.68	131.39	0.29	5.93	82.3	19287.2	-42.7	1281.7	0.00	0.0	0.0	0.0	0.85	0.59	62.7	83.16	48.23	119.8				
02/03/74	6.0	10.0	222.1	131.63	131.40	0.23	5.20	72.2	19294.2	7.1	1281.8	0.29	31.0	134.2	1.3	0.75	0.52	56.3	83.01	48.39	119.9				
02/10/74	6.0	10.0	222.1	131.57	131.44	0.13	5.32	73.8	19343.4	49.1	1283.0	0.97	103.6	449.0	4.5	1.18	0.81	67.0	82.97	48.47	120.4				
02/17/74	6.0	10.0	222.1	131.51	131.40	0.11	6.17	85.7	19287.6	-56.8	1281.7	0.00	0.0	0.0	0.0	0.97	0.67	71.6	82.96	48.44	120.7				
02/24/74	6.0	10.0	222.1	131.58	131.49	0.09	5.20	72.3	19414.4	126.8	1284.8	1.56	166.6	722.2	7.2	0.98	0.72	76.4	82.85	48.64	120.5				
03/03/74	6.0	10.0	222.1	131.53	131.43	0.10	7.50	104.2	19327.5	-66.9	1282.6	0.00	0.0	0.0	0.0	1.07	0.78	83.6	82.77	48.65	121.3				
03/10/74	6.0	10.0	222.1	131.49	131.36	0.13	5.89	81.8	19243.0	-84.5	1280.6	0.00	0.0	0.0	0.0	1.33	0.97	103.8	82.62	48.74	121.1				
03/17/74	6.0	10.0	222.1	131.49	131.30	0.19	4.48	62.2	19169.2	-73.8	1278.8	0.01	1.1	4.6	0.0	1.46	1.07	113.7	82.57	48.73	121.1				
03/24/74	6.0	10.0	222.1	131.52	131.47	0.05	3.39	47.1	19364.0	214.7	1284.0	2.37	252.6	1067.1	11.0	1.15	0.97	102.9	82.53	48.84	120.9				
03/31/74	6.0	10.0	222.1	131.56	131.38	0.18	6.92	96.1	19269.7	-114.3	1281.2	0.01	1.1	4.6	0.0	1.33	1.12	119.5	82.50	48.89	121.9				
04/07/74	6.0	10.0	222.1	131.49	131.31	0.18	4.91	68.2	19177.1	-82.6	1279.0	0.27	28.8	125.0	1.2	1.73	1.45	156.2	82.42	48.89	121.6				
04/14/74	6.0	10.0	222.1	131.42	131.28	0.16	3.50	48.6	19115.8	-61.3	1277.5	0.34	36.2	157.4	1.6	1.69	1.42	151.3	82.30	48.96	121.3				
04/21/74	6.0	10.0	222.1	131.40	131.20	0.20	2.68	37.3	19040.7	-75.0	1275.6	0.12	12.8	55.6	0.6	1.74	1.43	151.9	82.15	49.05	121.4				
04/28/74	6.0	10.0	222.1	131.37	131.17	0.20	1.81	25.2	19002.1	-38.6	1274.7	0.44	46.8	203.7	2.0	1.87	1.53	163.0	81.94	49.23	121.4				
05/05/74	6.0	10.0	222.1	131.27	131.11	0.16	1.42	19.8	18920.3	-81.8	1272.7	0.02	2.1	9.3	0.1	1.89	1.56	164.6	81.94	49.17	121.8				
05/12/74	6.0	10.0	222.1	131.22	131.30	-0.08	0.73	10.1	19165.1	244.8	1278.7	2.87	204.4	1328.6	13.3	1.89	1.54	163.5	81.88	49.42	121.4				
05/19/74	6.0	10.0	222.1	131.47	131.41	0.06	3.33	46.3	19305.8	140.7	1282.1	2.17	231.2	1004.5	10.0	1.78	1.44	153.8	81.84	49.57	122.6				
05/26/74	6.0	10.0	222.1	131.52	131.33	0.19	5.51	76.5	19209.5	-96.3	1279.8	0.46	49.1	212.9	2.1	1.87	1.59	169.8	81.75	49.59	123.3				
06/02/74	6.0	10.0	222.1	131.47	131.27	0.20	3.97	55.1	19129.8	-79.7	1277.8	0.16	17.1	74.1	0.7	1.56	1.33	141.4	81.58	49.69	123.1				
06/09/74	6.0	10.0	222.1	131.42	131.39	0.03	2.86	39.7	19282.4	152.6	1281.5	2.38	253.4	1101.7	11.0	1.89	1.61	171.1	81.57	49.83	123.2				
06/16/74	6.0	10.0	222.1	131.42	131.58	-0.16	5.12	71.1	19524.8	242.5	1287.4	3.28	348.2	1509.1	15.1	1.63	1.39	148.0	81.59	49.99	123.9				
06/23/74	6.0	10.0	222.1	131.48	131.42	0.06	9.78	135.8	19323.3	-201.6	1282.5	0.00	0.0	0.0	0.0	1.67	1.52	163.0	81.62	49.80	124.9				
06/30/74	6.0	10.0	222.1	131.54	131.72	-0.18	5.82	80.7	19704.1	360.8	1291.8	4.41	471.3	2041.5	20.4	1.32	1.20	128.4	81.58	50.14	123.9				
07/07/74	6.0	10.0	222.1	131.68	131.59	0.09	13.98	194.1	19540.2	-163.9	1287.8	0.50	53.8	231.5	2.3	1.25	1.14	122.5	81.72	49.87	125.7				
07/14/74	6.0	10.0	222.1	131.82	131.69	0.13	10.12	140.5	19670.8	130.6	1291.0	3.12	334.8	1444.3	14.4	1.80	1.64	175.8	81.82	49.87	124.6				
07/21/74	6.0	10.0	222.1	131.82	131.62	0.20	13.15	182.6	19674.1	-96.7	1288.6	1.33	143.1	615.7	6.2	1.64	1.49	160.6	81.74	49.88	124.0				
07/28/74	6.0	10.0	222.1	131.92	131.70	0.22	10.87	151.0	19683.3	109.2	1291.3	2.43	260.9	1124.9	11.2	1.02	1.02	106.4	81.88	49.82	124.7				
08/04/74	6.0	10.0	222.1	131.92	131.62	0.30	13.46	186.9	19581.6	-101.7	1288.8	1.00	107.6	462.9	4.6	1.27	1.16	124.4	81.84	49.78	124.8				
08/11/74	6.0	10.0	222.1	131.82	131.66	0.26	11.04	153.3	19631.5	49.6	1290.0	1.92	206.2	888.8	8.9	1.12	1.02	106.5	81.86	49.80	124.5				
08/18/74	6.0	10.0	222.1	131.81	131.69	0.12	12.21	168.5	19672.7	41.2	1291.0	2.10	225.8	972.1	9.7	1.25	1.14	122.3	81.95	49.74	124.7				
08/25/74	6.0	10.0	222.1	131.78	131.73	0.05	13.20	183.3	19724.5	51.7	1292.3	2.48	266.8	1148.0	11.5	1.54	1.31	140.8	82.02	49.72	124.6				
09/01/74	6.0	10.0	222.1	131.90	131.57	0.33	14.49	201.2	19516.5	-207.9	1287.2	0.27	29.1	125.0	1.2	1.47	1.25	134.6	81.99	49.58	124.7				
09/08/74	6.0	10.0	222.1	132.12	131.69	0.43	9.60	133.3	19666.4	149.9	1290.9	2.63	282.1	1217.5	12.2	1.20	1.02	106.4	82.06	49.60	123.8				
09/15/74	6.0	10.0	222.1	132.24	131.71	0.53	13.05	181.1	19698.2	31.8	1291.6	2.15	231.3	995.3	10.0	1.38	1.17	126.2	82.26	49.46	124.2				
09/22/74	6.0	10.0	222.1	132.20	131.73	0.47	13.83	192.0	19722.8	24.5	1292.2	2.14	230.3	990.6	9.9	1.49	1.13	121.9	82.33	49.40	124.0				
09/29/74	6.0	10.0	222.1	132.10	131.62	0.48	14.45	200.6	19674.7	-148.1	1288.6	0.35	37.7	162.0	1.6	1.04	0.79	85.1	82.44	49.18	123.9				
10/06/74	6.0	10.0	222.1	131.90	131.48	0.42	10.89	151.2	19401.1	-173.6	1284.4	0.00	0.0	0.0	0.0	1.49	1.13	121.6	82.36	49.12	123.0				

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574063		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5565 Runoff Coeff. = 0.01		Galvestone Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day				
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Discharge cfs	Sand Hill Discharge ac-feet				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/05/75	6.0	10.0	222.1	131.61	131.47	0.14	7.69	106.7	19382.2	-41.6	1284.0	0.28	27.8	120.4	1.2	0.74	0.57	61.0	81.31	50.18	125.1		
01/12/75	6.0	10.0	222.1	131.77	131.56	0.21	6.89	95.6	19605.3	123.1	1287.0	1.79	191.5	828.6	8.3	0.65	0.73	78.3	81.28	50.29	125.0		
01/19/75	6.0	10.0	222.1	131.74	131.50	0.24	9.36	129.9	19427.9	-77.4	1285.1	0.19	20.4	88.0	0.9	0.79	0.61	65.2	81.25	50.26	125.8		
01/26/75	6.0	10.0	222.1	131.72	131.55	0.17	7.77	107.9	19480.5	52.5	1286.4	0.86	92.1	398.1	4.0	0.44	0.30	32.5	81.22	50.33	125.3		
02/02/75	6.0	10.0	222.1	131.70	131.48	0.22	8.84	122.7	19384.1	-86.4	1284.3	0.01	1.1	4.6	0.0	0.83	0.57	61.4	81.19	50.29	125.8		
02/09/75	6.0	10.0	222.1	131.72	131.53	0.19	7.11	98.7	19490.4	66.3	1285.9	1.18	124.1	537.0	5.4	0.83	0.57	61.3	81.16	50.37	125.3		
02/16/75	6.0	10.0	222.1	131.72	131.59	0.13	8.42	116.9	19631.8	71.4	1287.6	1.45	165.4	671.2	6.7	0.65	0.66	70.2	81.13	50.45	125.7		
02/23/75	6.0	10.0	222.1	131.70	131.59	0.11	9.93	137.9	19540.7	8.9	1287.8	1.02	109.4	472.2	4.7	0.81	0.59	63.4	81.11	50.49	126.1		
03/02/75	6.0	10.0	222.1	131.67	131.56	0.11	10.13	140.6	19483.5	-47.2	1286.7	0.74	79.4	342.6	3.4	1.09	0.90	95.4	81.08	50.48	126.2		
03/09/75	6.0	10.0	222.1	131.64	131.49	0.15	9.11	126.5	19414.1	-79.4	1284.7	0.38	40.7	175.9	1.8	1.17	0.85	91.6	81.05	50.45	126.0		
03/16/75	6.0	10.0	222.1	131.60	131.41	0.19	7.50	104.1	19306.4	-107.7	1282.1	0.00	0.0	0.0	0.0	1.28	0.93	100.0	81.02	50.39	125.8		
03/23/75	6.0	10.0	222.1	131.56	131.37	0.19	5.52	78.7	18252.2	-54.2	1280.8	0.34	36.3	157.4	1.8	1.25	1.05	112.2	80.99	50.38	125.4		
03/30/75	6.0	10.0	222.1	131.52	131.29	0.23	4.63	64.3	19156.3	-95.6	1278.5	0.15	16.0	69.4	0.7	1.62	1.36	146.2	80.96	50.33	125.2		
04/06/75	6.0	10.0	222.1	131.52	131.21	0.31	3.21	44.8	19056.0	-100.0	1276.0	0.00	0.0	0.0	0.0	1.71	1.44	153.0	80.93	50.28	124.9		
04/13/75	6.0	10.0	222.1	131.50	131.33	0.17	1.98	27.5	19205.4	149.4	1279.7	1.72	182.9	796.2	8.0	1.25	1.05	111.7	80.90	50.43	124.5		
04/20/75	6.0	10.0	222.1	131.44	131.30	0.14	3.91	54.3	19172.3	-33.1	1278.8	0.49	52.3	226.8	2.3	1.49	1.22	130.3	80.88	50.43	125.2		
04/27/75	6.0	10.0	222.1	131.36	131.24	0.12	3.43	47.7	19083.5	-88.7	1276.7	0.00	0.0	0.0	0.0	1.58	1.30	138.1	80.85	50.39	125.1		
05/04/75	6.0	10.0	222.1	131.30	131.29	0.01	2.29	31.8	19159.3	75.8	1278.5	1.46	155.3	675.9	6.8	1.74	1.43	151.8	80.82	50.48	124.8		
05/11/75	6.0	10.0	222.1	131.36	131.26	0.10	3.25	45.2	19112.1	-47.2	1277.4	0.21	22.4	97.2	1.0	1.40	1.15	122.3	80.83	50.42	125.2		
05/18/75	6.0	10.0	222.1	131.40	131.39	0.01	2.64	36.6	19277.8	165.7	1281.4	2.33	248.0	1078.6	10.8	1.76	1.44	153.6	80.78	50.61	125.0		
05/25/75	6.0	10.0	222.1	131.37	131.27	0.10	5.04	70.0	19127.1	-150.7	1277.7	0.00	0.0	0.0	0.0	1.95	1.66	177.0	80.61	50.66	125.8		
06/01/75	6.0	10.0	222.1	131.37	131.27	0.10	2.83	39.3	19132.5	5.4	1277.9	1.04	110.7	481.4	4.8	1.85	1.57	167.4	80.53	50.74	125.6		
06/08/75	6.0	10.0	222.1	131.37	131.32	0.05	2.90	40.2	19186.8	54.1	1279.2	1.22	129.9	564.8	5.8	1.52	1.29	137.6	80.49	50.82	125.8		
06/15/75	6.0	10.0	222.1	131.40	131.36	0.05	3.64	50.5	19228.5	42.0	1280.2	1.41	150.3	652.7	6.5	1.77	1.50	160.4	80.45	50.90	126.2		
06/22/75	6.0	10.0	222.1	131.46	131.30	0.16	4.26	59.1	19165.4	-63.1	1278.7	0.43	46.9	199.1	2.0	1.52	1.38	147.6	80.44	50.86	126.4		
06/29/75	6.0	10.0	222.1	131.50	131.39	0.11	3.34	48.4	19276.1	110.6	1281.4	1.77	188.6	819.4	8.2	1.40	1.27	135.8	80.45	50.93	126.2		
07/06/75	6.0	10.0	222.1	131.60	131.34	0.26	5.01	69.6	19217.8	-56.2	1280.0	0.78	83.3	361.1	3.6	1.78	1.60	171.0	80.44	50.90	126.6		
07/13/75	6.0	10.0	222.1	131.70	131.59	0.11	4.10	56.9	19541.5	323.6	1287.8	3.71	395.7	1717.4	17.2	1.32	1.20	128.1	80.49	51.10	126.4		
07/20/75	6.0	10.0	222.1	131.80	131.52	0.28	10.14	140.8	19443.9	-97.6	1285.5	0.52	56.8	240.7	2.4	1.12	1.02	106.4	80.47	51.05	127.7		
07/27/75	6.0	10.0	222.1	131.78	131.54	0.24	8.09	112.3	19479.2	35.3	1286.3	1.44	154.3	666.6	6.7	1.11	1.01	108.2	80.55	51.00	127.3		
08/03/75	6.0	10.0	222.1	131.74	131.59	0.15	8.81	122.3	19534.4	55.2	1287.7	1.89	181.2	782.3	7.8	1.09	0.99	106.3	80.62	50.97	127.3		
08/10/75	6.0	10.0	222.1	131.70	131.45	0.25	9.99	138.7	19363.9	-170.5	1283.5	0.23	24.7	106.5	1.1	1.56	1.42	152.3	80.56	50.90	127.3		
08/17/75	6.0	10.0	222.1	131.74	131.43	0.31	6.56	90.9	19326.0	-37.9	1282.8	0.85	90.9	393.5	3.9	1.41	1.28	137.2	80.60	50.82	126.8		
08/24/75	6.0	10.0	222.1	131.80	131.37	0.43	5.86	81.4	19261.6	-44.4	1281.0	0.59	63.1	273.1	2.7	1.59	1.35	144.5	80.68	50.70	126.5		
08/31/75	6.0	10.0	222.1	131.72	131.40	0.32	4.78	66.3	19288.6	27.2	1281.7	1.08	113.2	490.7	4.9	1.33	1.13	120.7	80.77	50.63	126.0		
09/07/75	6.0	10.0	222.1	131.77	131.76	0.01	5.22	72.5	19763.6	474.8	1293.2	5.27	562.9	2439.6	24.4	1.50	1.28	136.2	80.79	50.97	125.9		
09/14/75	6.0	10.0	222.1	131.82	131.75	0.07	15.49	215.1	19739.8	-23.7	1292.6	1.94	209.1	898.1	9.0	1.32	1.12	120.9	80.82	50.93	127.9		
09/21/75	6.0	10.0	222.1	131.96	131.75	0.21	14.88	206.6	19740.4	0.6	1292.7	1.82	196.1	842.5	8.4	1.12	0.85	91.7	81.03	50.71	127.7		
09/28/75	6.0	10.0	222.1	131.88	131.88	0.00	14.90	206.8	19910.8	170.4	1296.8	3.35	360.9	1550.8	15.5	1.15	0.87	94.1	81.02	50.85	127.2		
10/05/75	6.0	10.0	222.1	131.92	131.75	0.17	19.49	270.6	19743.5	-167.2	1292.7	0.81	87.5	375.0	3.7	1.00	0.76	82.1	81.02	50.72	126.0		
10/12/75	6.0	10.0	222.1	131.96	131.65	0.31	14.98	207.9	19610.7	-132.8	1289.5	0.56	60.3	259.2	2.6	1.01	0.77	82.7	81.12	50.53	127.2		
10/19/75	6.0	10.0	222.1	131.91	131.61	0.30	11.72	162.7	19559.3	-51.5	1288.3	1.02	109.6	472.2	4.7	1.21	0.92	98.8	81.20	50.41	126.4		
10/26/75	6.0	10.0	222.1	131.86	131.51	0.35	10.54	148.3	19433.6	-125.7	1285.2	0.00	0.0	0.0	0.0	0.99	0.70	75.5	81.08	50.43	126.0		
11/02/75	6.0	10.0	222.1	131.76	131.51	0.25	7.88	109.4	19435.1	1.5	1285.3	0.79	84.6	365.7	3.7	0.97	0.69	73.8	81.04	50.47	125.8		
11/09/75	6.0	10.0	222.1	131.67	131.51	0.16	7.91	109.8	19433.5	-1.6	1285.2	0.59	63.2	273.1	2.7	0.71	0.50	54.0	80.97	50.54	125.9		
11/16/75	6.0	10.0	222.1	131.82	131.49	0.33	7.88	109.4	19405.6	-27.9	1284.5	0.40	42.8	185.2	1.9	0.78	0.55	59.3	80.85	50.64	126.0		
11/23/75	6.0	10.0	222.1	131.57	131.43	0.14	7.33	101.8	19335.4	-70.2	1282.8	0.06	6.4	27.8	0.3	0.80	0.66	71.1	80.77	50.66	126.2		
11/30/75	6.0	10.0	222.1	131.52	131.39	0.13	6.03	83.7	19287.4	-48.0	1281.7	0.00	0.0	0.0	0.0	0.68	0.56	60.3	80.70	50.70	126.1		
12/07/75	6.0	10.0	222.1	131.52	131.37	0.15	5.20	72.2	19256.5	-30.9	1280.9	0.01	1.1	4.6	0.0	0.63	0.52	56.8	80.67	50.70	126.1		
12/14/75	6.0	10.0	222.1	131.50	131.36	0.14	4.70	65.2	19241.8	-14.7	1280.5	0.06	6.4	27.8	0.3	0.59	0.49	52.3	80.49	50.87	126.0		
12/21/75	6.0	10.0	222.1	131.45	131.37	0.08	4.46	62.0	19253.2	11.4	1280.8	0.36	38.4	166.7	1.7	0.78	0.59	62.4	80.56	50.81	126.4		
12/28/75	6.0	10.0	222.1	131.40	131.40	-0.00	4.64	64.5	19288.2	46.0	1281.9	0.55	58.7	254.6	2.5	0.78	0.45	47.7	80.65	50.94	126.3		
01/04/76	6.0	10.0	222.1	131.42	131.63	-0.21	5.38	74.7	19588.2	290.0	1289.0	2.83	302.3	1310.1	13.1	0.56	0.43	46.1	80.59	51.04	126.7		

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/04/76	6.0	10.0	222.1	131.20	131.28	-0.08	2.21	30.7	19144.9	88.2	1278.2	1.39	147.9	843.5	6.4	1.67	1.40	149.2	79.32	51.96	128.3
04/11/76	6.0	10.0	222.1	131.15	131.40	-0.25	3.06	42.5	19299.8	154.9	1282.0	1.83	194.9	847.1	8.5	1.11	0.93	99.3	79.27	52.14	128.9
04/18/76	6.0	10.0	222.1	131.11	131.31	-0.20	5.41	75.1	19178.1	-123.7	1278.9	0.00	0.0	0.0	0.0	1.61	1.32	141.0	79.11	52.20	129.7
04/25/76	6.0	10.0	222.1	131.06	131.23	-0.17	3.49	48.4	19079.2	-96.9	1276.6	0.02	2.1	9.3	0.1	1.64	1.34	143.3	79.00	52.23	129.5
05/02/76	6.0	10.0	222.1	131.02	131.27	-0.25	2.24	31.1	19126.0	46.8	1277.7	1.10	117.0	509.2	5.1	1.57	1.29	137.0	78.93	52.34	129.4
05/09/76	6.0	10.0	222.1	131.09	131.20	-0.11	2.81	39.1	19033.5	-92.5	1275.5	0.00	0.0	0.0	0.0	1.67	1.37	146.8	78.82	52.37	129.8
05/16/76	6.0	10.0	222.1	131.15	131.41	-0.26	1.74	24.1	19304.8	271.1	1282.1	2.92	310.4	1351.7	13.5	1.39	1.14	121.1	78.93	52.47	129.6
05/23/76	6.0	10.0	222.1	131.21	131.44	-0.23	5.49	76.3	19346.9	42.3	1283.1	1.48	158.1	685.1	6.9	1.52	1.29	138.0	79.13	52.31	130.5
05/30/76	6.0	10.0	222.1	131.28	131.53	-0.25	6.24	86.6	19465.0	118.1	1286.0	1.98	211.7	916.8	9.2	1.19	1.01	108.2	78.90	52.63	130.2
06/06/76	6.0	10.0	222.1	131.32	131.46	-0.13	8.51	118.2	19351.8	-113.2	1283.2	0.39	41.8	180.5	1.8	1.42	1.21	129.3	79.94	52.50	131.3
06/13/76	6.0	10.0	222.1	131.36	131.34	0.02	6.32	87.8	19211.7	-140.1	1279.8	0.04	4.3	18.5	0.2	1.63	1.39	148.2	78.96	52.38	130.7
06/20/76	6.0	10.0	222.1	131.40	131.63	-0.23	4.00	55.6	19592.5	380.8	1289.1	4.69	500.2	2171.1	21.7	1.83	1.67	177.6	79.07	52.56	130.1
06/27/76	6.0	10.0	222.1	131.44	131.84	-0.40	11.30	158.8	19860.6	268.1	1295.6	4.03	432.0	1865.8	18.7	1.20	1.00	117.3	79.07	52.77	131.5
07/04/76	6.0	10.0	222.1	131.48	131.85	-0.37	18.06	251.2	19880.0	19.4	1296.0	2.89	290.4	1245.2	12.5	1.24	1.13	121.8	79.08	52.78	132.7
07/11/76	6.0	10.0	222.1	131.46	131.73	-0.27	18.63	258.6	19712.2	-167.8	1292.0	1.40	151.2	648.1	6.5	1.59	1.45	156.3	79.10	52.62	132.7
07/18/76	6.0	10.0	222.1	131.44	131.52	-0.08	14.18	196.9	19443.2	-269.0	1285.5	0.09	9.7	41.7	0.4	1.78	1.60	172.4	79.04	52.48	131.9
07/25/76	6.0	10.0	222.1	131.42	131.38	0.04	8.07	112.1	19268.9	-174.3	1281.2	0.04	4.3	18.5	0.2	1.62	1.47	157.9	79.05	52.33	130.9
08/01/76	6.0	10.0	222.1	131.40	131.52	-0.12	4.90	68.0	19451.6	182.8	1285.7	2.88	307.5	1333.2	13.3	1.67	1.52	162.3	79.03	52.49	130.1
08/08/76	6.0	10.0	222.1	131.38	131.46	-0.08	8.24	114.4	19372.0	-79.6	1283.7	0.56	60.0	259.2	2.6	1.22	1.11	118.9	78.90	52.56	131.0
08/15/76	6.0	10.0	222.1	131.33	131.44	-0.11	6.69	93.0	19346.2	-25.8	1283.1	1.11	118.7	513.8	5.1	1.52	1.38	148.0	78.78	52.67	130.9
08/22/76	6.0	10.0	222.1	131.29	131.41	-0.12	6.22	86.4	19303.0	-43.2	1282.0	0.59	63.1	273.1	2.7	1.25	1.06	113.6	78.76	52.65	131.1
08/29/76	6.0	10.0	222.1	131.24	131.34	-0.10	5.47	75.9	19216.0	-87.0	1279.9	0.28	29.9	129.6	1.3	1.47	1.25	133.5	78.50	52.83	131.0
09/05/76	6.0	10.0	222.1	131.20	131.41	-0.21	4.07	56.5	19309.9	93.8	1282.2	1.78	189.9	824.0	8.2	1.53	1.30	138.7	78.57	52.84	131.2
09/12/76	6.0	10.0	222.1	131.27	131.55	-0.28	5.58	77.5	19487.5	177.7	1286.5	2.60	277.8	1203.6	12.0	1.38	1.17	125.3	78.62	52.93	131.5
09/19/76	6.0	10.0	222.1	131.35	131.53	-0.18	8.98	124.7	19457.0	-30.6	1285.8	0.70	75.0	324.0	3.2	0.91	0.69	74.1	78.77	52.76	132.1
09/26/76	6.0	10.0	222.1	131.42	131.47	-0.05	8.36	115.9	19379.3	-77.7	1283.9	0.29	31.1	134.2	1.3	1.04	0.79	84.7	78.69	52.78	131.6
10/03/76	6.0	10.0	222.1	131.50	131.39	0.11	6.83	94.8	19275.1	-104.2	1281.4	0.00	0.0	0.0	0.0	1.23	0.93	100.0	78.63	52.75	131.5
10/10/76	6.0	10.0	222.1	131.43	131.41	0.02	5.00	69.4	19307.2	32.1	1282.1	0.99	105.7	468.3	4.8	1.23	0.93	99.8	78.56	52.85	131.2
10/17/76	6.0	10.0	222.1	131.36	131.43	-0.07	5.54	76.9	19330.9	23.8	1282.7	0.92	98.3	425.9	4.3	1.14	0.87	92.6	78.62	52.81	131.5
10/24/76	6.0	10.0	222.1	131.29	131.37	-0.08	5.96	82.6	19253.9	-77.0	1280.8	0.04	4.3	18.5	0.2	1.18	0.84	80.6	78.44	52.93	131.5
10/31/76	6.0	10.0	222.1	131.22	131.36	-0.14	4.86	64.6	19247.5	-6.5	1280.7	0.26	27.8	120.4	1.2	0.81	0.58	61.4	78.42	52.95	131.5
11/07/76	6.0	10.0	222.1	131.22	131.33	-0.11	4.55	63.2	19207.0	-40.5	1279.7	0.01	1.1	4.6	0.0	0.91	0.65	69.0	78.25	53.08	131.6
11/14/76	6.0	10.0	222.1	131.21	131.32	-0.11	3.93	54.6	19188.5	-18.5	1279.2	0.03	3.2	13.9	0.1	0.78	0.54	57.5	78.37	52.95	131.8
11/21/76	6.0	10.0	222.1	131.21	131.55	-0.34	3.86	50.9	19481.9	293.4	1286.4	2.59	278.1	1199.0	12.0	0.39	0.32	34.5	78.33	53.22	131.4
11/28/76	6.0	10.0	222.1	131.20	131.48	-0.28	8.87	123.1	19397.4	-84.5	1284.3	0.00	0.0	0.0	0.0	0.57	0.47	50.7	78.39	53.09	132.8
12/05/76	6.0	10.0	222.1	131.20	131.46	-0.26	7.17	98.6	19369.0	-28.5	1283.6	0.31	33.2	143.5	1.4	0.60	0.50	53.3	78.26	53.20	132.3
12/12/76	6.0	10.0	222.1	131.32	131.46	-0.14	6.64	92.2	19375.6	6.6	1283.8	0.40	42.8	185.2	1.9	0.40	0.33	36.5	78.27	53.19	132.5
12/19/76	6.0	10.0	222.1	131.44	131.56	-0.12	6.78	93.9	19496.5	121.0	1286.8	1.38	147.6	638.8	6.4	0.35	0.27	28.8	78.54	53.01	132.5
12/26/76	6.0	10.0	222.1	131.56	131.73	-0.17	9.17	127.4	19713.9	217.3	1292.0	2.67	288.3	1236.0	12.4	0.53	0.41	43.8	78.89	52.84	132.4
01/02/77	6.0	10.0	222.1	131.68	131.63	0.05	14.22	197.5	19505.7	-118.1	1289.2	0.41	44.1	189.8	1.9	0.68	0.52	56.4	78.81	52.62	132.5
01/09/77	6.0	10.0	222.1	131.66	131.71	-0.05	11.37	157.9	19888.0	102.2	1291.6	1.85	198.7	856.4	8.6	0.45	0.35	37.2	79.11	52.61	132.1
01/16/77	6.0	10.0	222.1	131.64	131.68	-0.04	13.82	191.9	19660.3	-37.7	1290.7	1.19	128.1	550.9	5.5	0.84	0.65	69.6	79.14	52.54	131.8
01/23/77	6.0	10.0	222.1	131.61	131.58	0.03	12.90	178.1	19522.8	-137.5	1287.4	0.00	0.0	0.0	0.0	0.66	0.46	49.0	79.07	52.51	131.6
01/30/77	6.0	10.0	222.1	131.58	131.51	0.07	9.74	135.2	19434.2	-88.6	1285.2	0.04	4.3	18.5	0.2	0.66	0.46	48.9	79.09	52.42	131.2
02/06/77	6.0	10.0	222.1	131.56	131.67	-0.11	7.89	109.6	19642.9	208.6	1290.3	2.44	261.3	1129.5	11.3	0.62	0.43	45.8	79.16	52.51	130.7
02/13/77	6.0	10.0	222.1	131.58	131.55	0.03	12.48	173.2	19491.3	-151.6	1286.6	0.00	0.0	0.0	0.0	0.93	0.84	69.0	79.34	52.21	131.5
02/20/77	6.0	10.0	222.1	131.61	131.48	0.13	9.06	125.8	19392.8	-88.6	1284.2	0.13	13.9	60.2	0.6	1.01	0.74	79.1	79.26	52.22	130.4
02/27/77	6.0	10.0	222.1	131.64	131.53	0.11	7.09	98.4	19455.9	63.1	1285.8	1.70	181.9	787.0	7.9	1.54	1.12	120.3	79.33	52.19	130.1
03/06/77	6.0	10.0	222.1	131.60	131.46	0.14	8.33	115.6	19375.9	-80.0	1283.8	0.28	30.0	129.6	1.3	1.12	0.82	87.6	79.25	52.21	130.2
03/13/77	6.0	10.0	222.1	131.55	131.48	0.07	6.77	94.0	19396.0	20.1	1284.3	0.89	95.2	412.0	4.1	0.99	0.72	77.3	79.31	52.17	130.1
03/20/77	6.0	10.0	222.1	131.51	131.37	0.14	7.15	99.2	19257.7	-138.4	1280.9	0.00	0.0	0.0	0.0	1.48	1.23	131.3	79.22	52.15	130.0
03/27/77	6.0	10.0	222.1	131.47	131.29	0.18	4.71	65.5	19157.3	-100.4	1278.5	0.18	17.1	74.1	0.7	1.62	1.36	145.3	79.12	52.18	129.6
04/03/77	6.0	10.0	222.1	131.43	131.22	0.21	3.23	44.8	19062.9	-84.4	1278.2	0.00	0.0	0.0	0.0	1.50	1.34	142.3	79.02	52.20	129.4
04/10/77	6.0	10.0	222.1	131																	

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5565 Runoff Coeff. = 0.01		Galvesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
07/03/77	6.0	10.0	222.1	131.02	130.68	0.34		18379.2	-83.8	1259.3	0.49	51.5	226.8	2.3	2.09	1.90	199.8	77.48	53.20	129.9	
07/10/77	6.0	10.0	222.1	131.06	130.95	0.40		18342.4	-36.8	1258.4	0.34	36.7	167.4	1.6	1.74	1.58	186.2	77.50	53.15	130.0	
07/17/77	6.0	10.0	222.1	131.08	130.80	0.48		18273.7	-68.7	1256.7	0.15	15.7	69.4	0.7	1.86	1.89	177.5	77.47	53.12	129.8	
07/24/77	6.0	10.0	222.1	131.11	130.52	0.59		18180.5	-93.2	1254.4	0.00	0.0	0.0	0.0	1.95	1.77	185.8	77.35	53.17	129.5	
07/31/77	6.0	10.0	222.1	131.14	130.49	0.65		18141.7	-36.7	1253.4	0.46	48.1	212.9	2.1	1.91	1.74	181.7	77.35	53.14	129.4	
08/07/77	6.0	10.0	222.1	131.14	130.43	0.71		18056.5	-82.2	1251.4	0.05	5.2	23.1	0.2	1.90	1.73	180.6	77.30	53.12	129.2	
08/14/77	6.0	10.0	222.1	131.14	130.53	0.61		18191.4	131.9	1254.6	1.68	175.2	777.7	7.8	1.52	1.38	144.2	77.22	53.31	129.0	
08/21/77	6.0	10.0	222.1	131.13	130.88	0.25		18637.9	446.5	1265.7	4.35	464.8	2013.7	20.1	1.36	1.16	120.9	77.24	53.64	129.6	
08/28/77	6.0	10.0	222.1	131.13	130.97	0.16		18747.3	109.5	1268.4	1.02	107.6	472.2	4.7	1.04	0.88	93.2	77.26	53.71	131.7	
09/04/77	6.0	10.0	222.1	131.13	131.02	0.11		18804.6	57.2	1269.8	0.84	67.6	296.3	3.0	1.15	0.98	103.3	77.34	53.67	132.2	
09/11/77	6.0	10.0	222.1	131.12	130.97	0.15	0.08	18750.4	-64.2	1268.5	0.00	0.0	0.0	0.0	1.89	1.36	143.0	77.34	53.64	132.2	
09/18/77	6.0	10.0	222.1	131.12	131.24	-0.12		19094.0	343.6	1276.9	3.38	365.2	1655.4	15.6	1.46	1.11	117.3	77.30	53.85	132.0	
09/25/77	6.0	10.0	222.1	131.12	131.32	-0.20	2.42	19190.7	96.7	1279.3	1.27	135.1	587.9	5.9	1.23	0.93	99.5	77.55	53.77	133.4	
10/02/77	6.0	10.0	222.1	131.11	131.31	-0.20	3.70	19182.9	-7.8	1279.1	0.49	52.2	226.8	2.3	1.23	0.93	99.7	77.52	53.79	132.5	
10/09/77	6.0	10.0	222.1	131.11	131.26	-0.15	3.58	19114.1	-68.8	1277.4	0.03	3.2	13.9	0.1	1.37	1.04	111.0	77.42	53.84	133.5	
10/16/77	6.0	10.0	222.1	130.95	131.24	-0.29	2.66	19088.4	-25.7	1276.8	0.06	6.4	27.8	0.3	1.04	0.79	84.1	77.29	53.96	133.4	
10/23/77	6.0	10.0	222.1	130.91	131.22	-0.31	2.35	19061.1	-27.2	1276.1	0.00	0.0	0.0	0.0	1.10	0.78	83.1	77.19	54.03	133.7	
10/30/77	6.0	10.0	222.1	130.88	131.21	-0.33	2.04	19056.3	-4.5	1276.0	0.00	0.0	0.0	0.0	0.0	0.86	61.9	77.18	54.04	133.8	
11/06/77	6.0	10.0	222.1	130.85	131.24	-0.39	1.98	19091.4	35.1	1276.9	0.21	22.3	67.2	1.0	0.86	0.46	49.1	77.28	53.96	133.8	
11/13/77	6.0	10.0	222.1	130.87	131.23	-0.36	2.38	19073.4	-17.9	1276.4	0.00	0.0	0.0	0.0	0.97	0.89	73.3	76.91	54.31	133.7	
11/20/77	6.0	10.0	222.1	130.89	131.22	-0.33	2.17	19064.8	-8.8	1276.2	0.00	0.0	0.0	0.0	0.0	0.75	62.2	76.87	54.35	134.5	
11/27/77	6.0	10.0	222.1	130.91	131.32	-0.41	2.07	19192.8	126.0	1279.3	1.30	138.3	601.8	6.0	0.85	0.71	75.0	76.89	54.43	134.6	
12/04/77	6.0	10.0	222.1	130.93	131.37	-0.44	3.72	19255.6	63.0	1280.9	0.76	80.0	347.2	3.5	0.63	0.52	55.7	77.02	54.35	135.1	
12/11/77	6.0	10.0	222.1	130.82	131.43	-0.61	4.68	19338.0	82.3	1282.9	1.13	120.6	523.1	5.2	0.74	0.61	65.6	76.86	54.58	135.1	
12/18/77	6.0	10.0	222.1	130.92	131.54	-0.62	6.06	19474.9	137.0	1286.2	1.55	165.7	717.5	7.2	0.46	0.36	37.9	77.17	54.37	135.9	
12/25/77	6.0	10.0	222.1	131.02	131.60	-0.58	8.72	19545.9	70.9	1287.9	1.35	144.7	824.9	6.2	0.55	0.42	45.4	77.31	54.28	136.7	
01/01/78	6.0	10.0	222.1	131.12	131.59	-0.47	10.24	19638.1	-7.8	1287.8	0.79	84.8	365.7	3.7	0.49	0.38	40.5	77.31	54.28	136.7	
01/08/78	6.0	10.0	222.1	131.22	131.54	-0.32	10.07	19478.6	-59.5	1286.3	0.41	44.0	189.8	1.9	0.63	0.49	52.1	77.51	54.03	136.6	
01/15/78	6.0	10.0	222.1	131.33	131.85	-0.32	8.80	19111.5	132.8	1289.5	2.09	224.0	967.5	9.7	0.80	0.82	66.0	77.38	54.26	134.9	
01/22/78	6.0	10.0	222.1	131.43	131.84	-0.41	11.73	19088.4	252.2	1295.8	3.29	363.5	1623.0	15.2	0.54	0.37	40.0	77.61	54.23	135.6	
01/29/78	6.0	10.0	222.1	131.53	131.89	-0.16	18.17	19061.1	-202.1	1290.8	0.22	23.8	101.8	1.0	0.81	0.56	60.3	77.96	53.73	136.3	
02/05/78	6.0	10.0	222.1	131.52	131.87	-0.15	12.93	19036.8	-24.8	1290.2	0.83	89.3	384.2	3.8	0.35	0.24	26.0	78.32	53.34	134.6	
02/12/78	6.0	10.0	222.1	131.60	131.88	-0.08	12.33	19048.0	11.2	1290.4	1.28	137.6	592.5	5.9	0.67	0.46	49.7	78.30	53.38	133.5	
02/19/78	6.0	10.0	222.1	131.67	131.80	-0.13	12.60	19815.4	167.4	1294.5	2.78	296.8	1277.7	12.8	0.71	0.52	55.7	78.39	53.42	133.7	
02/26/78	6.0	10.0	222.1	131.75	131.83	0.12	16.86	19590.5	-234.9	1289.0	0.00	0.0	0.0	0.0	1.00	0.73	78.7	78.30	53.33	134.2	
03/05/78	6.0	10.0	222.1	131.82	131.82	0.00	11.25	19833.5	243.0	1294.9	3.33	357.7	1541.5	15.4	0.80	0.58	62.7	78.48	53.34	133.4	
03/12/78	6.0	10.0	222.1	131.88	131.74	0.12	17.35	19727.1	-106.4	1292.3	0.93	100.4	430.5	4.3	0.74	0.54	58.3	78.77	52.97	134.0	
03/19/78	6.0	10.0	222.1	131.90	131.80	0.30	14.56	19556.3	-170.7	1288.2	0.37	39.8	171.3	1.7	1.10	0.92	99.5	78.92	52.69	132.6	
03/26/78	6.0	10.0	222.1	131.94	131.46	0.48	10.47	19376.0	-180.3	1283.8	0.00	0.0	0.0	0.0	1.39	1.17	125.3	79.20	52.27	131.7	
04/02/78	6.0	10.0	222.1	131.80	131.36	0.44	6.77	19240.1	-136.0	1280.5	0.00	0.0	0.0	0.0	1.49	1.25	133.9	79.24	52.11	130.2	
04/09/78	6.0	10.0	222.1	131.77	131.26	0.51	4.44	19116.1	-124.0	1277.5	0.00	0.0	0.0	0.0	1.73	1.45	155.1	79.26	52.00	129.5	
04/16/78	6.0	10.0	222.1	131.74	131.24	0.50	2.69	19090.6	-25.5	1276.9	0.54	57.5	250.0	2.5	1.62	1.33	141.4	79.26	51.98	128.9	
04/23/78	6.0	10.0	222.1	131.71	131.16	0.55	2.38	18988.4	-102.1	1274.3	0.10	10.6	46.3	0.5	1.99	1.63	173.6	79.18	51.98	128.8	
04/30/78	6.0	10.0	222.1	131.69	131.08	0.61	1.29	18885.5	-102.9	1271.8	0.00	0.0	0.0	0.0	2.05	1.68	178.5	79.05	52.03	128.5	
05/07/78	6.0	10.0	222.1	131.88	131.30	0.58	0.49	19164.4	278.9	1278.7	2.82	298.9	1305.4	13.1	1.38	1.13	119.9	79.13	52.17	128.4	
05/14/78	6.0	10.0	222.1	131.80	131.24	0.56	3.33	19085.7	-78.7	1276.7	0.28	29.8	129.6	1.3	1.79	1.47	156.4	79.18	52.06	129.4	
05/21/78	6.0	10.0	222.1	131.72	131.18	0.54	2.32	19016.1	-69.6	1275.0	0.29	30.9	134.2	1.3	1.80	1.53	162.8	79.04	52.15	129.0	
05/28/78	6.0	10.0	222.1	131.64	131.10	0.54	1.56	18918.3	-99.8	1272.8	0.06	6.4	27.8	0.3	1.97	1.67	177.9	78.88	52.23	129.0	
06/04/78	6.0	10.0	222.1	131.56	131.27	0.29	0.70	19122.3	205.9	1277.6	2.54	260.4	1175.8	11.8	1.78	1.50	158.6	78.98	52.28	129.0	
06/11/78	6.0	10.0	222.1	131.58	131.30	0.28	2.77	19162.5	40.2	1278.6	0.94	101.1	439.8	4.4	1.32	1.12	119.5	78.89	52.41	128.6	
06/18/78	6.0	10.0	222.1	131.82	131.19	0.43	3.30	19025.7	-136.8	1275.3	0.08	8.5	37.0	0.4	1.98	1.80	192.0	78.89	52.30	130.0	
06/25/78	6.0	10.0	222.1	131.66	131.16	0.50	1.86	18991.8	-33.9	1274.4	0.33	35.1	152.8	1.5	1.45	1.32	140.2	78.86	52.30	129.4	
07/02/78	6.0	10.0	222.1	131.70	131.08	0.64	1.33	18863.3	-128.6	1271.3	0.00	0.0	0.0	0.0	2.10	1.91	203.0	78.83	52.23	129.3	
07/09/78	6.0	10.0	222.1	131.88	131.25	0.63	0.36	19105.6	242.3	1277.2	2.91	308.3	1347.1	13.5	1.74	1.58	167.7	78.96	52.29	128.6	
07/16/78	6.0	10.0	222.1	132.06	131.38	0.68	2.56	19265.7	180.1	1281.1	2.14	227.8	990.6	9.9	1.39	1.26	134.6	79.07	52.31	129.6	
07/23/78	6.0	10.0	222.1	132.24	131.41	0.83	4.84	19303.2	37.5	1282.0	1.23	131.3	569.4	5.7	1.28						

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702298.5 C2 = -241863.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5655 Runoff Coeff. = 0.01		Gaineville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day				
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Discharge ac-feet	Etonia Precip. in/week				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
10/01/78	6.0	10.0	222.1	131.82	131.27	0.55	2.37	32.9	19124.3	34.2	1277.7	0.40	42.8	185.2	1.9	0.91	0.09	73.6	80.44	60.83	125.9		
10/06/78	6.0	10.0	222.1	131.76	131.22	0.54	2.79	38.8	19063.5	-60.8	1276.2	0.00	0.0	0.0	0.0	1.46	1.11	118.1	80.16	61.06	126.0		
10/15/78	6.0	10.0	222.1	131.70	131.20	0.50	2.06	28.6	19040.3	-23.1	1275.6	0.01	1.1	4.6	0.0	1.13	0.86	91.3	80.20	61.90	126.4		
10/22/78	6.0	10.0	222.1	131.85	131.19	0.46	1.81	25.1	19031.1	-9.2	1275.4	0.00	0.0	0.0	0.0	1.06	0.75	80.0	80.07	61.12	126.2		
10/29/78	6.0	10.0	222.1	131.60	131.20	0.40	1.71	23.8	19033.3	2.2	1275.4	0.10	10.6	46.3	0.5	1.07	0.78	80.7	80.02	61.17	126.5		
11/05/78	6.0	10.0	222.1	131.54	131.19	0.35	1.74	24.1	19021.0	-12.4	1275.1	0.00	0.0	0.0	0.0	1.11	0.79	83.8	79.82	61.36	126.6		
11/12/78	6.0	10.0	222.1	131.50	131.20	0.30	1.61	22.3	19032.6	11.6	1275.4	0.00	0.0	0.0	0.0	0.81	0.58	61.1	79.67	61.52	127.1		
11/19/78	6.0	10.0	222.1	131.46	131.19	0.27	1.73	24.0	19029.1	-3.5	1275.3	0.00	0.0	0.0	0.0	0.84	0.70	74.1	79.48	61.71	127.5		
11/26/78	6.0	10.0	222.1	131.42	131.20	0.22	1.69	23.5	19031.9	2.8	1275.4	0.00	0.0	0.0	0.0	0.77	0.64	67.9	79.48	61.71	128.0		
12/03/78	6.0	10.0	222.1	131.63	131.44	0.19	1.72	23.9	19044.9	312.9	1283.1	2.84	301.8	1314.7	13.1	0.82	0.68	72.3	79.44	62.00	128.0		
12/10/78	6.0	10.0	222.1	131.67	131.42	0.25	6.29	86.1	19314.6	-90.3	1282.3	0.25	26.7	115.7	1.2	0.73	0.81	64.8	79.31	62.11	129.5		
12/17/78	6.0	10.0	222.1	131.71	131.42	0.29	5.66	78.6	19315.1	0.5	1282.3	0.36	38.5	166.7	1.7	0.65	0.50	53.2	79.24	62.16	129.7		
12/24/78	6.0	10.0	222.1	131.75	131.41	0.34	5.67	78.8	19308.4	-6.7	1282.2	0.35	37.4	162.0	1.6	0.72	0.55	59.5	79.45	61.96	129.8		
12/31/78	6.0	10.0	222.1	131.78	131.47	0.31	5.56	77.2	19385.1	76.7	1284.0	0.99	105.8	458.3	4.6	0.60	0.48	49.4	79.30	62.17	129.3		
01/07/79	6.0	10.0	222.1	131.82	131.56	0.26	6.04	94.4	19469.9	114.7	1286.8	1.56	166.9	722.2	7.2	0.67	0.52	55.2	79.40	62.17	130.0		
01/14/79	6.0	10.0	222.1	131.85	131.74	0.21	9.24	123.3	19732.8	232.7	1292.5	2.79	299.2	1291.5	12.9	0.52	0.40	42.9	79.42	62.32	130.3		
01/21/79	6.0	10.0	222.1	132.08	131.82	0.26	14.70	204.0	19840.0	107.4	1295.1	2.32	249.9	1074.0	10.7	0.54	0.37	40.1	79.65	62.17	131.2		
01/28/79	6.0	10.0	222.1	132.09	131.80	0.29	17.53	243.3	19809.6	-30.3	1294.3	1.54	166.2	712.9	7.1	0.69	0.48	51.4	79.56	62.24	131.1		
02/04/79	6.0	10.0	222.1	132.10	131.89	0.41	16.71	232.0	19665.3	-144.3	1290.8	0.48	51.8	222.2	2.2	0.77	0.53	57.3	79.44	62.25	131.2		
02/11/79	6.0	10.0	222.1	132.14	131.68	0.46	12.02	160.6	19658.4	-6.9	1290.7	1.10	118.3	509.2	5.1	0.65	0.38	40.8	79.53	62.15	130.9		
02/18/79	6.0	10.0	222.1	132.18	131.57	0.61	12.85	178.4	19515.0	-143.4	1287.2	0.00	0.0	0.0	0.0	0.72	0.53	56.5	79.51	62.07	130.6		
02/25/79	6.0	10.0	222.1	132.22	131.61	0.61	9.57	132.8	19562.9	47.9	1286.2	1.24	133.0	574.0	5.7	0.64	0.47	50.1	79.76	61.85	130.0		
03/04/79	6.0	10.0	222.1	132.26	131.51	0.75	10.62	147.5	19438.2	-124.7	1285.3	0.00	0.0	0.0	0.0	0.89	0.65	69.8	79.47	62.04	129.6		
03/11/79	6.0	10.0	222.1	132.16	131.52	0.64	7.97	116.7	19446.7	10.5	1285.6	1.00	107.1	462.9	4.6	1.06	0.77	62.9	79.65	61.87	129.9		
03/18/79	6.0	10.0	222.1	132.07	131.41	0.66	8.18	113.6	19311.8	-137.0	1282.3	0.00	0.0	0.0	0.0	1.29	1.08	116.1	79.47	61.94	129.4		
03/25/79	6.0	10.0	222.1	131.97	131.33	0.64	5.62	78.0	19294.8	-107.0	1279.5	0.17	18.2	78.7	0.8	1.57	1.32	146.3	79.61	61.72	129.2		
04/01/79	6.0	10.0	222.1	131.88	131.26	0.62	3.90	54.2	19109.1	-96.7	1277.3	0.00	0.0	0.0	0.0	1.51	1.27	130.9	79.34	61.92	128.4		
04/08/79	6.0	10.0	222.1	131.89	131.48	0.41	2.60	36.1	19402.7	293.6	1284.5	3.23	343.8	1495.2	15.0	1.37	1.15	122.5	79.47	62.01	128.7		
04/15/79	6.0	10.0	222.1	131.90	131.55	0.35	7.28	101.0	19463.2	80.5	1286.4	2.07	221.6	958.2	9.6	1.62	1.33	142.2	79.51	62.03	129.6		
04/22/79	6.0	10.0	222.1	131.91	131.41	0.50	8.89	123.5	19302.5	-180.6	1282.0	0.00	0.0	0.0	0.0	1.70	1.39	149.4	79.34	62.07	129.0		
04/29/79	6.0	10.0	222.1	131.92	131.54	0.36	5.46	75.8	19468.8	166.3	1286.1	2.48	285.0	1148.0	11.5	1.46	1.19	127.0	79.45	62.09	129.5		
05/06/79	6.0	10.0	222.1	131.92	131.56	0.36	8.50	119.3	19465.2	26.4	1286.7	1.65	176.8	763.8	7.6	1.49	1.22	130.9	79.49	62.07	130.0		
05/13/79	6.0	10.0	222.1	131.84	131.56	0.28	9.14	127.0	19495.8	1.8	1286.8	1.19	127.6	550.9	5.5	1.10	0.90	96.7	79.50	61.97	130.0		
05/20/79	6.0	10.0	222.1	131.77	131.48	0.31	9.18	127.4	19368.1	-128.6	1283.8	0.41	44.0	189.8	1.9	1.53	1.30	139.5	79.68	61.78	129.8		
05/27/79	6.0	10.0	222.1	131.69	131.36	0.33	6.62	92.0	19243.1	-125.0	1280.6	0.27	28.9	125.0	1.2	1.72	1.46	156.4	79.55	61.81	129.0		
06/03/79	6.0	10.0	222.1	131.62	131.36	0.26	4.48	62.3	19246.9	3.8	1280.7	1.05	112.1	486.1	4.9	1.59	1.35	144.2	79.56	61.80	129.7		
06/10/79	6.0	10.0	222.1	131.58	131.26	0.32	4.54	63.1	19114.0	-133.0	1277.4	0.00	0.0	0.0	0.0	1.80	1.53	163.3	79.43	61.83	128.7		
06/17/79	6.0	10.0	222.1	131.53	131.24	0.29	2.66	37.0	19087.6	-26.4	1276.8	0.49	52.2	226.8	2.3	1.42	1.29	137.6	79.58	61.66	128.5		
06/24/79	6.0	10.0	222.1	131.49	131.36	0.13	2.34	32.5	19246.5	158.9	1280.7	2.28	242.6	1055.5	10.6	1.61	1.47	155.9	79.49	61.87	128.0		
07/01/79	6.0	10.0	222.1	131.45	131.35	0.10	4.54	63.0	19225.5	-21.0	1280.1	0.97	103.5	449.0	4.5	1.64	1.49	159.3	79.52	61.82	128.9		
07/08/79	6.0	10.0	222.1	131.45	131.27	0.18	4.21	58.5	19132.3	-93.2	1277.9	0.48	51.2	222.2	2.2	1.87	1.70	181.5	79.63	61.65	128.7		
07/15/79	6.0	10.0	222.1	131.45	131.24	0.21	2.90	40.2	19089.6	-42.7	1276.8	0.50	53.2	231.5	2.3	1.57	1.43	152.1	79.60	61.64	128.1		
07/22/79	6.0	10.0	222.1	131.46	131.33	0.13	2.36	32.8	19210.1	120.5	1279.8	1.64	174.5	759.2	7.6	1.27	1.16	123.0	79.70	61.84	127.9		
07/29/79	6.0	10.0	222.1	131.46	131.29	0.17	3.88	55.3	19151.9	-58.2	1278.4	0.58	56.7	259.2	2.6	1.64	1.49	159.2	79.66	61.83	128.2		
08/05/79	6.0	10.0	222.1	131.46	131.36	0.10	3.15	43.8	19238.7	86.7	1280.5	1.61	171.5	745.3	7.5	1.47	1.34	142.5	79.71	61.65	128.1		
08/12/79	6.0	10.0	222.1	131.51	131.64	-0.13	4.42	61.3	19605.8	367.1	1289.4	4.20	448.2	1944.3	19.4	1.37	1.25	133.0	79.75	61.89	128.3		
08/19/79	6.0	10.0	222.1	131.57	131.53	0.04	11.60	161.1	19459.3	-146.3	1285.8	0.35	37.6	162.0	1.6	1.28	1.09	116.9	79.71	61.82	128.8		
08/26/79	6.0	10.0	222.1	131.55	131.54	0.01	8.40	116.6	19476.0	16.6	1286.3	1.69	171.4	740.7	7.4	1.52	1.29	138.4	79.64	61.90	129.3		
09/02/79	6.0	10.0	222.1	131.54	131.50	0.04	8.74	121.4	19423.4	-62.8	1285.0	0.96	102.9	444.4	4.4	1.44	1.22	131.2	79.63	61.87	129.5		
09/09/79	6.0	10.0	222.1	131.66	131.69	-0.03	7.68	106.6	19663.0	239.6	1290.8	3.36	359.8	1555.4	15.6	1.34	1.14	122.0	79.50	62.09	129.3		
09/16/79	6.0	10.0	222.1	131.80	131.79	0.01	12.96	180.0	19796.2	133.3	1294.0	2.82	303.3	1305.4	13.1	1.16	0.88	94.8	79.77	62.02	130.5		
09/23/79	6.0	10.0	222.1	131.92	131.64	0.28	16.35	227.0	19603.1	-193.1	1289.3	0.26	28.0	120.4	1.2	1.06	0.81	66.9	79.97	61.67	130.6		
09/30/79	6.0	10.0	222.1	132.03	132.01	0.02	11.54	160.2	20078.6	475.8	1300.8	5.67	606.2	2624.7	26.2	1.13	0.86	92.3	80.25	61.78			

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. In/week	Sand Hill Lake Evap. In/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day				
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Discharge cfs	Sand Hill Discharge ac-feet				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/06/80	6.0	10.0	222.1	131.92	131.66	0.34	8.76	121.5	19627.9	51.5	1267.5	1.10	117.9	509.2	5.1	0.54	0.42	44.6	80.22	51.36	127.6		
01/13/80	6.0	10.0	222.1	132.02	131.66	0.36	9.85	136.7	19624.0	96.1	1269.8	1.50	160.9	694.4	6.9	0.35	0.27	28.9	80.29	51.36	126.3		
01/20/80	6.0	10.0	222.1	132.01	131.66	0.42	12.03	167.0	19634.4	-86.5	1267.7	0.22	23.6	101.8	1.0	0.55	0.38	40.8	80.23	51.36	126.6		
01/27/80	6.0	10.0	222.1	132.01	131.78	0.23	9.99	138.7	19786.7	252.3	1293.8	3.25	348.7	1504.5	15.0	0.90	0.62	66.6	80.51	51.27	126.3		
02/03/80	6.0	10.0	222.1	132.00	131.66	0.34	16.10	223.5	19623.6	-163.1	1289.8	0.13	14.0	60.2	0.6	0.64	0.44	47.6	80.47	51.19	126.7		
02/10/80	6.0	10.0	222.1	132.00	131.57	0.43	12.02	166.9	19606.4	-117.3	1287.0	0.12	12.9	55.6	0.6	0.78	0.54	57.8	80.72	50.84	126.1		
02/17/80	6.0	10.0	222.1	132.01	131.56	0.45	9.36	130.3	19404.1	-12.3	1286.7	0.61	65.4	282.4	2.8	0.58	0.42	46.4	80.75	50.81	127.0		
02/24/80	6.0	10.0	222.1	132.01	131.58	0.43	9.12	126.7	19621.1	26.9	1287.3	1.13	121.2	523.1	5.2	0.87	0.64	66.1	80.65	50.93	126.9		
03/02/80	6.0	10.0	222.1	132.02	131.52	0.50	9.70	134.7	19446.6	-74.5	1285.5	0.27	29.0	125.0	1.2	0.83	0.61	65.0	80.81	50.71	127.2		
03/09/80	6.0	10.0	222.1	132.03	131.52	0.51	8.14	113.0	19442.4	-4.1	1285.4	0.88	92.1	398.1	4.0	1.06	0.77	82.9	80.71	50.81	126.5		
03/16/80	6.0	10.0	222.1	132.04	131.49	0.55	8.08	111.9	19411.6	-30.8	1284.7	0.83	88.9	364.2	3.8	1.19	1.00	107.1	80.71	50.78	126.7		
03/23/80	6.0	10.0	222.1	132.05	131.40	0.65	7.46	103.4	19288.7	-123.0	1281.7	0.04	4.3	18.5	0.2	1.33	1.12	119.9	80.68	50.72	126.6		
03/30/80	6.0	10.0	222.1	132.05	131.41	0.67	5.22	72.5	19310.3	21.7	1282.2	0.99	105.7	458.3	4.6	1.25	1.05	112.1	80.91	50.51	126.1		
04/06/80	6.0	10.0	222.1	132.12	131.82	0.50	5.50	77.8	19572.4	262.1	1288.8	3.14	335.5	1453.8	14.5	1.19	1.00	106.8	80.91	50.71	125.7		
04/13/80	6.0	10.0	222.1	132.03	131.49	0.54	10.84	150.5	19407.3	-165.1	1284.6	0.15	16.1	69.4	0.7	1.44	1.18	126.8	81.00	50.49	126.6		
04/20/80	6.0	10.0	222.1	131.95	131.65	0.48	7.37	102.3	19380.5	-26.8	1283.9	0.89	95.3	412.0	4.1	1.37	1.12	120.3	81.04	50.43	125.6		
04/27/80	6.0	10.0	222.1	131.87	131.36	0.52	6.95	95.2	19227.5	-153.1	1280.2	0.00	0.0	0.0	0.0	1.76	1.44	154.4	80.87	50.47	125.6		
05/04/80	6.0	10.0	222.1	131.78	131.29	0.49	4.24	58.9	19146.8	-80.6	1278.2	0.02	2.1	9.3	0.1	1.38	1.13	120.7	80.77	50.51	125.4		
05/11/80	6.0	10.0	222.1	131.83	131.43	0.40	3.09	42.9	19337.4	190.6	1282.9	2.29	243.9	1060.1	10.6	1.35	1.11	117.9	80.77	50.66	125.3		
05/18/80	6.0	10.0	222.1	131.87	131.43	0.44	6.07	84.2	19331.5	-5.9	1282.7	0.90	96.2	416.6	4.2	1.30	1.11	118.1	80.77	50.66	126.1		
05/25/80	6.0	10.0	222.1	131.92	131.49	0.43	5.96	82.8	19403.7	72.2	1284.5	1.84	196.7	651.8	6.5	1.61	1.37	146.3	80.95	50.54	126.1		
06/01/80	6.0	10.0	222.1	131.84	131.37	0.47	7.30	101.3	19250.0	-153.7	1280.7	0.03	3.2	13.9	0.1	1.67	1.42	151.9	80.73	50.84	126.0		
06/08/80	6.0	10.0	222.1	131.76	131.24	0.52	4.59	63.8	19063.0	-157.1	1276.9	0.00	0.0	0.0	0.0	2.09	1.78	169.6	80.48	50.77	126.0		
06/15/80	6.0	10.0	222.1	131.71	131.18	0.53	2.40	33.4	19006.8	-83.2	1274.9	0.21	22.3	97.2	1.0	1.75	1.59	169.5	80.27	50.91	125.6		
06/22/80	6.0	10.0	222.1	131.67	131.17	0.50	1.50	20.8	19000.3	-9.5	1274.6	0.69	73.3	319.4	3.2	1.67	1.52	161.5	80.16	50.99	125.9		
06/29/80	6.0	10.0	222.1	131.63	131.23	0.40	1.41	19.5	19081.3	81.0	1276.6	1.20	127.5	555.5	5.6	1.33	1.21	128.6	80.09	51.14	126.1		
07/06/80	6.0	10.0	222.1	131.70	131.23	0.47	2.27	31.5	19070.2	-11.1	1276.4	0.78	83.0	361.1	3.6	1.67	1.52	161.7	79.79	51.43	126.7		
07/13/80	6.0	10.0	222.1	131.77	131.18	0.59	2.14	29.7	19017.5	-62.7	1275.1	0.70	74.5	324.0	3.2	2.02	1.84	195.5	79.88	51.30	127.4		
07/20/80	6.0	10.0	222.1	131.85	131.16	0.69	1.57	21.8	18981.3	-36.2	1274.2	0.66	70.1	305.5	3.1	1.89	1.72	182.7	79.86	51.30	126.9		
07/27/80	6.0	10.0	222.1	131.93	131.61	0.32	1.23	17.1	19560.3	579.0	1288.3	5.74	606.5	2657.1	26.6	1.40	1.27	135.3	80.09	51.51	126.8		
08/03/80	6.0	10.0	222.1	132.00	131.52	0.48	10.56	146.7	19452.5	-107.8	1285.7	0.97	104.1	449.0	4.5	1.67	1.52	163.2	80.16	51.37	126.8		
08/10/80	6.0	10.0	222.1	131.99	131.41	0.58	8.26	114.7	19304.6	-147.8	1282.1	0.38	40.7	175.9	1.8	1.74	1.58	169.8	80.15	51.26	126.1		
08/17/80	6.0	10.0	222.1	131.99	131.41	0.58	5.49	78.3	19309.8	5.2	1282.2	0.99	105.8	458.3	4.6	1.36	1.16	123.5	80.31	51.10	127.5		
08/24/80	6.0	10.0	222.1	131.90	131.45	0.45	5.58	77.5	19354.6	45.0	1283.3	1.33	142.1	615.7	6.2	1.33	1.13	120.8	80.39	51.12	127.1		
08/31/80	6.0	10.0	222.1	131.81	131.36	0.43	8.38	88.6	19274.7	-80.2	1281.4	0.48	51.3	222.2	2.2	1.54	1.31	140.0	80.23	51.16	127.3		
09/07/80	6.0	10.0	222.1	131.72	131.35	0.37	4.99	69.3	19234.5	-40.1	1280.4	0.55	58.7	254.6	2.5	1.40	1.19	127.1	80.24	51.12	127.0		
09/14/80	6.0	10.0	222.1	131.66	131.34	0.32	4.35	60.4	19212.7	-21.9	1279.8	0.38	40.5	175.9	1.8	1.22	0.93	98.9	80.05	51.29	127.2		
09/21/80	6.0	10.0	222.1	131.61	131.36	0.25	4.02	55.8	19244.8	32.2	1280.6	0.82	87.5	379.6	3.8	1.21	0.92	98.1	80.04	51.32	127.4		
09/28/80	6.0	10.0	222.1	131.56	131.37	0.19	4.51	62.6	19251.0	6.2	1280.8	0.65	69.4	300.9	3.0	1.21	0.92	98.1	79.86	51.50	127.5		
10/05/80	6.0	10.0	222.1	131.50	131.44	0.06	4.61	64.0	19348.1	97.0	1283.1	1.46	155.8	675.9	6.8	1.18	0.90	95.7	79.78	51.66	126.0		
10/12/80	6.0	10.0	222.1	131.45	131.37	0.08	6.26	86.9	19252.3	-95.7	1280.8	0.00	0.0	0.0	0.0	1.26	0.96	102.4	79.75	51.61	126.6		
10/19/80	6.0	10.0	222.1	131.40	131.32	0.08	4.63	64.3	19189.5	-62.9	1279.3	0.00	0.0	0.0	0.0	1.22	0.87	92.5	79.64	51.68	126.3		
10/26/80	6.0	10.0	222.1	131.35	131.37	-0.02	3.66	51.1	19250.1	60.6	1280.8	0.80	85.3	370.3	3.7	0.94	0.67	71.1	79.40	51.67	126.3		
11/02/80	6.0	10.0	222.1	131.30	131.42	-0.12	4.59	63.8	19315.1	65.0	1282.3	0.75	80.0	347.2	3.5	0.83	0.45	47.7	79.43	51.98	129.2		
11/09/80	6.0	10.0	222.1	131.32	131.41	-0.09	5.67	78.8	19307.9	-7.2	1282.2	0.32	34.2	148.1	1.5	0.75	0.53	56.9	79.40	52.02	129.3		
11/16/80	6.0	10.0	222.1	131.31	131.37	-0.06	5.55	77.0	19253.5	-54.4	1280.8	0.00	0.0	0.0	0.0	0.79	0.66	70.1	79.40	51.97	129.4		
11/23/80	6.0	10.0	222.1	131.31	131.39	-0.08	4.66	64.6	19286.1	32.5	1281.6	0.53	56.6	245.3	2.5	0.82	0.51	54.9	79.36	52.04	129.2		
11/30/80	6.0	10.0	222.1	131.30	131.43	-0.13	5.18	71.9	19328.1	42.0	1282.7	0.58	61.9	268.5	2.7	0.49	0.41	43.4	79.28	52.14	129.4		
12/07/80	6.0	10.0	222.1	131.30	131.39	-0.09	5.90	81.9	19276.5	-51.6	1281.4	0.00	0.0	0.0	0.0	0.70	0.58	62.1	79.34	52.05	129.8		
12/14/80	6.0	10.0	222.1	131.26	131.36	-0.10	5.02	66.7	19244.8	-32.1	1280.6	0.00	0.0	0.0	0.0	0.67	0.52	55.1	79.13	52.23	129.4		
12/21/80	6.0	10.0	222.1	131.22	131.36	-0.14	4.50	62.5	19236.8	-7.6	1280.4	0.21	22.4	97.2	1.0	0.74	0.57	60.8	78.94	52.41	129.8		
12/28/80	6.0	10.0	222.1	131.19	131.35	-0.16	4.39	60.9	19228.5	-8.3	1280.2	0.06	6.4	27.8	0.3	0.56	0.43	46.0	79.09	52.26	130.2		
01/04/81	6.0	10.0	222.1	131.16	131.34	-0.18	4.26	59.1	19214.3	-14.2	1279.9	0.01	1.1	4.6	0.0	0.59	0.45	48.5	78.88	52.46	129.8		
01/11/81	6.0	10.0	222.1	131.1																			

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5565		Galneville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/05/81	6.0	10.0	222.1	131.64	131.38	0.26	5.54	76.9	19268.4	-40.9	1281.1	0.84	70.5	305.5	3.1	1.44	1.21	129.2	78.09	52.39	130.5
04/12/81	6.0	10.0	222.1	131.55	131.29	0.26	4.88	87.4	19157.4	-109.0	1278.5	0.02	2.1	9.3	0.1	1.55	1.27	135.7	78.80	52.49	130.2
04/19/81	6.0	10.0	222.1	131.46	131.22	0.24	3.23	44.8	19063.0	-94.4	1276.2	0.00	0.0	0.0	0.0	1.82	1.33	141.5	78.71	52.51	130.2
04/26/81	6.0	10.0	222.1	131.37	131.20	0.17	2.06	28.5	19036.2	-26.8	1275.5	0.34	40.4	175.9	1.8	1.52	1.25	132.6	78.82	52.57	130.0
05/03/81	6.0	10.0	222.1	131.28	131.13	0.15	1.77	24.5	18943.3	-92.9	1273.2	0.00	0.0	0.0	0.0	1.84	1.51	160.4	78.17	52.95	130.1
05/10/81	6.0	10.0	222.1	131.20	131.07	0.13	0.91	12.6	18867.5	-75.8	1271.4	0.05	5.3	23.1	0.2	1.84	1.51	160.1	77.96	53.21	130.8
05/17/81	6.0	10.0	222.1	131.13	130.99	0.14	0.38	5.3	18772.0	-95.4	1269.0	0.00	0.0	0.0	0.0	2.01	1.71	181.0	77.86	53.13	131.3
05/24/81	6.0	10.0	222.1	131.06	130.90	0.16			18661.1	-110.9	1266.3	0.00	0.0	0.0	0.0	2.25	1.91	202.3	77.68	53.24	130.8
05/31/81	6.0	10.0	222.1	131.00	130.80	0.10			18555.4	-5.7	1266.2	0.78	82.3	361.1	3.6	2.04	1.73	183.0	77.69	53.21	130.8
06/07/81	6.0	10.0	222.1	130.95	130.94	0.01			18704.9	49.5	1267.4	1.37	144.6	634.2	6.3	2.15	1.83	192.8	77.67	53.27	130.7
06/14/81	6.0	10.0	222.1	130.90	131.03	-0.13			18827.0	122.1	1270.4	1.92	202.8	886.8	8.9	1.88	1.71	180.7	77.63	53.40	131.0
06/21/81	6.0	10.0	222.1	130.88	131.18	-0.32	0.17	2.4	19017.9	190.9	1275.1	2.77	293.2	1282.3	12.8	2.11	1.92	203.3	77.60	53.59	131.6
06/28/81	6.0	10.0	222.1	130.89	131.18	-0.29	1.58	21.9	19014.7	-3.2	1275.0	0.73	77.6	337.9	3.4	1.57	1.43	151.8	77.54	53.64	132.6
07/05/81	6.0	10.0	222.1	130.92	131.10	-0.18	1.56	21.5	18913.5	-101.2	1272.5	0.00	0.0	0.0	0.0	1.75	1.59	169.2	77.48	53.64	132.7
07/12/81	6.0	10.0	222.1	131.01	131.12	-0.11	0.68	9.5	18931.1	17.6	1272.9	0.89	94.4	412.0	4.1	1.67	1.52	161.2	77.33	53.79	132.4
07/19/81	6.0	10.0	222.1	131.11	131.17	-0.06	0.81	11.3	18995.8	64.7	1274.5	1.24	131.5	574.0	5.7	1.56	1.42	150.6	77.30	53.86	132.9
07/26/81	6.0	10.0	222.1	131.20	131.12	0.08	1.36	18.9	18939.9	-55.9	1273.2	0.05	5.3	23.1	0.2	1.36	1.24	131.4	77.30	53.83	133.2
08/02/81	6.0	10.0	222.1	131.22	131.14	0.08	0.88	12.2	18958.1	18.2	1273.6	0.78	80.6	351.8	3.5	1.48	1.35	142.9	77.50	53.83	133.0
08/09/81	6.0	10.0	222.1	131.25	131.21	0.04	1.03	14.3	19053.3	96.2	1275.9	1.81	192.1	837.9	8.4	1.87	1.70	180.6	77.50	53.72	132.5
08/16/81	6.0	10.0	222.1	131.28	131.20	0.08	1.95	27.1	19040.4	-12.9	1275.6	0.22	23.4	101.6	1.0	1.10	0.94	96.4	77.54	53.66	133.0
08/23/81	6.0	10.0	222.1	131.40	131.25	0.15	1.81	25.1	19104.4	64.0	1277.2	0.78	82.9	361.1	3.6	0.96	0.82	99.7	77.54	53.72	132.8
08/30/81	6.0	10.0	222.1	131.53	131.37	0.16	2.54	35.3	19258.6	154.2	1281.0	1.89	201.2	874.9	8.7	1.21	1.03	109.5	77.72	53.65	133.1
09/06/81	6.0	10.0	222.1	131.66	131.33	0.33	4.73	65.7	19203.1	-55.5	1279.6	0.28	29.9	129.6	1.3	1.21	1.03	109.8	77.77	53.56	133.4
09/13/81	6.0	10.0	222.1	131.62	131.31	0.31	3.88	53.8	19175.5	-27.6	1278.9	0.41	43.7	189.8	1.9	1.34	1.02	108.6	77.88	53.43	133.0
09/20/81	6.0	10.0	222.1	131.56	131.31	0.25	3.48	48.3	19178.3	2.9	1279.0	0.66	70.3	305.5	3.1	1.38	1.05	111.8	77.95	53.36	132.6
09/27/81	6.0	10.0	222.1	131.50	131.26	0.24	3.52	48.9	19113.9	-64.4	1277.4	0.00	0.0	0.0	0.0	1.30	0.99	105.3	78.03	53.23	132.4
10/04/81	6.0	10.0	222.1	131.45	131.20	0.25	2.98	36.9	19037.7	-76.2	1275.6	0.00	0.0	0.0	0.0	1.60	1.22	129.4	77.89	53.31	131.9
10/11/81	6.0	10.0	222.1	131.40	131.19	0.21	1.78	24.7	19023.1	-14.6	1275.2	0.13	13.8	60.2	0.6	1.17	0.89	94.5	77.74	53.45	131.9
10/18/81	6.0	10.0	222.1	131.38	131.17	0.19	1.83	22.6	19002.1	-21.0	1274.7	0.00	0.0	0.0	0.0	1.17	0.83	88.3	77.63	53.54	132.2
10/25/81	6.0	10.0	222.1	131.33	131.22	0.11	1.42	18.8	19060.4	58.3	1276.1	0.65	60.0	300.9	3.0	1.11	0.79	83.7	77.75	53.47	132.4
11/01/81	6.0	10.0	222.1	131.30	131.23	0.07	2.03	28.1	19073.9	13.5	1276.4	0.07	7.4	32.4	0.3	0.74	0.53	55.9	77.65	53.57	132.4
11/08/81	6.0	10.0	222.1	131.34	131.39	-0.05	2.18	30.3	19286.3	212.5	1281.5	2.00	212.7	925.8	9.3	0.91	0.85	68.7	77.65	53.75	132.7
11/15/81	6.0	10.0	222.1	131.34	131.50	-0.16	5.18	72.0	19425.5	139.2	1285.0	1.65	176.2	783.8	7.6	0.89	0.57	61.2	77.74	53.76	133.7
11/22/81	6.0	10.0	222.1	131.35	131.47	-0.12	7.72	107.2	19363.2	-42.3	1284.0	0.50	53.5	231.5	2.3	0.88	0.74	79.1	77.65	53.82	134.1
11/29/81	6.0	10.0	222.1	131.36	131.41	-0.05	6.90	95.9	19305.5	-77.7	1282.1	0.01	1.1	4.6	0.0	0.80	0.66	71.0	77.62	53.79	134.1
12/06/81	6.0	10.0	222.1	131.37	131.44	-0.07	5.51	76.5	19351.4	45.9	1283.2	0.95	101.5	436.8	4.4	0.81	0.67	71.8	77.50	53.95	133.8
12/13/81	6.0	10.0	222.1	131.40	131.42	-0.02	6.32	87.7	19314.1	-37.3	1282.3	0.13	13.9	60.2	0.6	0.83	0.49	51.9	77.42	53.99	134.3
12/20/81	6.0	10.0	222.1	131.44	131.38	0.06	5.66	78.5	19274.6	-39.5	1281.3	0.02	2.1	9.3	0.1	0.62	0.48	51.0	77.25	54.14	134.3
12/27/81	6.0	10.0	222.1	131.48	131.47	0.01	4.99	69.3	19381.4	106.8	1284.0	1.06	113.2	490.7	4.9	0.36	0.28	29.6	77.58	53.69	134.6
01/03/82	6.0	10.0	222.1	131.52	131.49	0.03	6.87	95.4	19414.2	32.8	1284.7	0.87	83.1	402.7	4.0	0.69	0.53	56.8	77.46	54.04	134.2
01/10/82	6.0	10.0	222.1	131.58	131.48	0.10	7.50	104.1	19402.1	-12.1	1284.5	0.58	62.1	268.5	2.7	0.73	0.56	60.2	77.36	54.12	134.7
01/17/82	6.0	10.0	222.1	131.64	131.80	-0.16	7.26	100.9	19802.7	400.6	1294.2	4.08	436.7	1888.7	18.9	0.56	0.39	41.4	77.51	54.28	134.9
01/24/82	6.0	10.0	222.1	131.70	131.64	0.06	16.52	229.4	19600.4	-202.4	1289.3	0.00	0.0	0.0	0.0	0.79	0.55	58.8	77.77	53.87	136.3
01/31/82	6.0	10.0	222.1	131.76	131.53	0.23	11.48	159.3	19463.9	-136.5	1286.0	0.00	0.0	0.0	0.0	0.87	0.60	64.5	77.88	53.86	134.8
02/07/82	6.0	10.0	222.1	131.82	131.57	0.25	8.49	117.9	19514.0	50.1	1287.2	1.15	123.2	532.4	5.3	0.66	0.46	48.8	77.77	53.81	133.9
02/14/82	6.0	10.0	222.1	131.79	131.56	0.23	9.55	132.5	19503.7	-10.3	1286.9	0.77	82.6	356.4	3.6	0.68	0.48	51.7	77.73	53.84	134.4
02/21/82	6.0	10.0	222.1	131.76	131.73	0.03	9.33	129.5	19714.1	210.4	1292.0	3.08	330.3	1425.8	14.3	1.18	0.86	92.4	77.93	53.79	134.4
02/28/82	6.0	10.0	222.1	131.74	131.59	0.15	14.23	197.5	19532.3	-181.8	1287.8	0.00	0.0	0.0	0.0	0.91	0.66	71.5	77.77	53.82	134.9
03/07/82	6.0	10.0	222.1	131.72	131.68	0.04	9.94	138.1	19659.3	126.9	1290.7	2.27	243.6	1050.8	10.5	0.98	0.72	76.8	78.12	53.57	134.5
03/14/82	6.0	10.0	222.1	131.74	131.53	0.21	12.87	178.7	19460.1	-199.2	1285.9	0.00	0.0	0.0	0.0	1.20	1.01	108.4	77.96	53.57	134.2
03/21/82	6.0	10.0	222.1	131.76	131.43	0.33	8.42	116.8	19327.1	-133.0	1282.6	0.07	7.5	32.4	0.3	1.25	1.05	112.5	77.91	53.52	133.7
03/28/82	6.0	10.0	222.1	131.78	131.56	0.22	5.88	81.7	19494.3	167.2	1286.7	2.07	221.3	958.2	9.6	0.79	0.66	70.9	77.80	53.76	133.2
04/04/82	6.0	10.0	222.1	131.80	131.53	0.27	9.13	126.7	19464.9	-29.4	1286.0	1.01	108.3	467.5	4.7	1.15	0.97	103.6	77.98	53.55	134.2
04/11/82	6.0	10.0	222.1	131.72	132.07	-0.35	8.51	118.2	20158.3	693.4	1302.7	7.80	814.5	3518.2							

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574063		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5655 Runoff Coeff. = 0.01		Galneville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
07/04/82	6.0	10.0	222.1	132.12	131.50	0.62	13.58	188.6	19427.2	-261.1	1285.1	0.06	5.4	23.1	0.2	1.71	1.56	187.5	78.79	52.71	132.8
07/11/82	6.0	10.0	222.1	132.14	131.47	0.67	7.75	107.7	19381.7	-46.5	1284.0	0.73	78.2	337.9	3.4	1.13	1.03	110.1	79.03	52.44	131.4
07/18/82	6.0	10.0	222.1	132.17	131.53	0.64	8.88	95.5	19469.1	77.4	1285.8	2.43	280.0	1124.9	11.2	1.96	1.77	189.9	79.10	52.43	130.8
07/25/82	6.0	10.0	222.1	132.20	131.85	0.55	8.39	116.6	19617.1	158.0	1289.7	2.86	306.5	1323.9	13.2	1.40	1.27	136.5	79.21	52.44	130.8
08/01/82	6.0	10.0	222.1	132.10	131.55	0.55	11.87	164.8	19486.3	-130.7	1286.5	0.74	70.5	342.6	3.4	1.43	1.30	139.9	79.31	52.24	131.2
08/08/82	6.0	10.0	222.1	132.14	131.55	0.59	8.96	124.4	19481.5	-4.8	1286.4	1.47	157.6	680.5	6.8	1.40	1.27	136.6	79.36	52.19	130.4
08/15/82	6.0	10.0	222.1	132.18	131.43	0.75	8.86	123.0	19333.5	-148.0	1282.8	0.12	12.9	55.6	0.6	1.43	1.22	130.3	79.62	51.81	130.3
08/22/82	6.0	10.0	222.1	132.22	131.51	0.71	6.00	83.3	19432.6	99.1	1285.2	1.72	183.9	796.2	8.0	1.13	0.98	102.7	79.77	51.74	129.0
08/29/82	6.0	10.0	222.1	132.27	131.85	0.62	7.86	109.1	19620.7	188.1	1289.8	2.87	307.4	1328.6	13.3	1.28	1.09	116.5	79.85	51.81	129.0
09/05/82	6.0	10.0	222.1	132.32	131.52	0.80	11.95	165.9	19449.2	-171.5	1285.6	0.47	50.5	217.6	2.2	1.05	1.40	150.7	79.80	51.72	129.0
09/12/82	6.0	10.0	222.1	132.30	131.76	0.54	8.19	113.8	19780.8	311.6	1293.2	3.65	391.0	1689.6	16.9	0.93	0.71	75.7	79.93	51.83	129.0
09/19/82	6.0	10.0	222.1	132.29	131.84	0.65	16.42	214.1	19608.0	-152.8	1289.5	0.79	85.1	365.7	3.7	1.46	1.11	119.8	80.02	51.82	130.1
09/26/82	6.0	10.0	222.1	132.27	131.72	0.65	11.85	161.8	19701.6	93.6	1291.7	2.09	224.6	967.5	9.7	0.88	0.67	71.9	80.21	51.51	129.2
10/03/82	6.0	10.0	222.1	132.26	131.61	0.65	13.91	193.2	19569.3	-141.2	1288.3	0.46	48.4	208.3	2.1	1.12	0.85	91.6	80.31	51.30	129.1
10/10/82	6.0	10.0	222.1	132.17	131.54	0.63	10.56	146.7	19468.4	-91.9	1286.1	0.51	54.8	236.1	2.4	1.18	0.90	96.3	80.26	51.27	128.2
10/17/82	6.0	10.0	222.1	132.08	131.45	0.63	8.50	119.2	19355.9	-112.5	1283.3	0.00	0.0	0.0	0.0	1.15	0.82	87.5	80.22	51.23	128.0
10/24/82	6.0	10.0	222.1	132.00	131.47	0.53	6.40	88.6	19381.3	25.4	1283.9	0.70	74.9	324.0	3.2	0.77	0.55	58.5	80.19	51.26	127.6
10/31/82	6.0	10.0	222.1	131.92	131.41	0.51	6.87	95.4	19309.7	-71.6	1282.2	0.00	0.0	0.0	0.0	0.93	0.66	70.6	80.15	51.26	127.8
11/07/82	6.0	10.0	222.1	131.92	131.50	0.42	5.58	77.5	19426.9	117.2	1285.1	1.51	161.3	699.0	7.0	0.90	0.64	68.3	80.17	51.33	127.5
11/14/82	6.0	10.0	222.1	131.92	131.44	0.48	7.75	107.6	19349.1	-77.8	1283.2	0.14	15.0	64.8	0.6	0.90	0.75	80.0	80.19	51.26	128.0
11/21/82	6.0	10.0	222.1	131.92	131.40	0.52	6.28	87.1	19297.1	-52.1	1281.9	0.00	0.0	0.0	0.0	0.67	0.56	50.5	80.10	51.30	127.6
11/28/82	6.0	10.0	222.1	131.92	131.37	0.55	5.36	74.5	19250.6	-46.4	1280.8	0.00	0.0	0.0	0.0	0.75	0.62	66.5	80.13	51.23	127.6
12/05/82	6.0	10.0	222.1	131.92	131.33	0.59	4.90	63.9	19199.2	-51.5	1279.5	0.00	0.0	0.0	0.0	0.93	0.77	82.4	80.03	51.29	127.3
12/12/82	6.0	10.0	222.1	131.90	131.40	0.50	3.82	53.0	19290.4	91.2	1281.7	0.88	93.8	407.4	4.1	0.59	0.45	48.4	80.25	51.15	127.4
12/19/82	6.0	10.0	222.1	131.89	131.42	0.47	5.25	72.9	19310.1	28.7	1282.4	0.54	57.7	250.0	2.5	0.65	0.50	53.5	80.03	51.39	127.2
12/26/82	6.0	10.0	222.1	131.88	131.39	0.49	5.74	79.7	19278.1	-43.1	1281.4	0.00	0.0	0.0	0.0	0.70	0.54	57.6	79.92	51.47	127.9
01/02/83	6.0	10.0	222.1	131.87	131.38	0.49	5.01	69.6	19273.4	-2.7	1281.3	0.08	8.5	37.0	0.4	0.44	0.34	36.2	79.95	51.43	128.0
01/09/83	6.0	10.0	222.1	131.80	131.44	0.36	4.97	69.0	19340.8	67.4	1283.0	0.74	79.0	342.6	3.4	0.49	0.38	40.3	79.92	51.52	127.9
01/16/83	6.0	10.0	222.1	131.72	131.41	0.31	6.13	85.1	19304.7	-36.2	1282.1	0.00	0.0	0.0	0.0	0.61	0.42	46.0	79.78	51.63	128.2
01/23/83	6.0	10.0	222.1	131.64	131.46	0.15	5.49	76.3	19410.5	105.8	1284.7	1.13	120.7	523.1	5.2	0.50	0.37	37.6	79.87	51.62	128.4
01/30/83	6.0	10.0	222.1	131.56	131.53	0.03	7.43	103.1	19462.3	51.8	1285.9	0.98	104.9	453.7	4.5	0.65	0.45	48.0	79.86	51.67	128.7
02/06/83	6.0	10.0	222.1	131.67	131.61	0.06	8.46	117.5	19561.0	98.7	1288.3	1.90	203.6	878.5	8.8	1.21	0.83	69.5	80.02	51.59	128.9
02/13/83	6.0	10.0	222.1	131.78	131.71	0.07	10.56	146.9	19697.7	136.7	1291.6	2.12	227.6	981.4	9.8	0.80	0.44	47.0	80.13	51.59	129.0
02/20/83	6.0	10.0	222.1	131.89	131.66	0.23	13.82	191.8	19624.9	-72.8	1289.9	0.80	86.1	370.3	3.7	0.81	0.59	63.6	80.07	51.59	129.3
02/27/83	6.0	10.0	222.1	132.00	131.57	0.43	12.05	167.3	19509.8	-115.1	1287.1	0.28	30.1	129.6	1.3	0.92	0.67	72.2	80.19	51.38	129.1
03/06/83	6.0	10.0	222.1	132.12	131.51	0.61	9.46	131.3	19435.9	-73.9	1285.3	0.36	38.6	166.7	1.7	0.98	0.72	76.7	80.25	51.26	128.3
03/13/83	6.0	10.0	222.1	132.19	131.68	0.51	7.93	110.0	19655.1	219.2	1290.8	2.98	319.2	1379.5	13.8	1.09	0.92	98.1	80.37	51.31	127.8
03/20/83	6.0	10.0	222.1	132.26	131.73	0.53	12.77	177.3	19712.5	57.4	1292.0	2.20	236.6	1018.4	10.2	1.17	0.98	106.7	80.78	50.95	128.5
03/27/83	6.0	10.0	222.1	132.34	131.89	0.65	14.19	197.0	19670.7	-41.8	1291.0	1.54	165.8	712.9	7.1	1.24	1.04	112.1	80.91	50.79	127.7
04/03/83	6.0	10.0	222.1	132.42	131.56	0.86	13.15	182.6	19494.0	-176.7	1286.7	0.31	33.4	143.5	1.4	1.37	1.15	123.8	81.00	50.55	127.2
04/10/83	6.0	10.0	222.1	132.41	131.63	0.78	9.12	126.6	19593.6	99.6	1289.1	2.10	225.2	972.1	9.7	1.19	0.98	104.6	81.10	50.54	126.2
04/17/83	6.0	10.0	222.1	132.41	131.59	0.82	11.32	157.2	19534.5	-59.1	1287.7	1.31	140.7	606.4	6.1	1.64	1.34	144.5	81.16	50.43	126.4
04/24/83	6.0	10.0	222.1	132.40	131.78	0.62	9.99	138.7	19777.7	243.2	1293.6	3.85	413.1	1782.2	17.8	1.65	1.35	145.2	81.49	50.28	126.0
05/01/83	6.0	10.0	222.1	132.40	131.57	0.83	15.86	220.2	19508.4	-269.3	1287.0	0.00	0.0	0.0	0.0	1.64	1.34	145.0	81.63	49.94	126.2
05/08/83	6.0	10.0	222.1	132.32	131.51	0.80	9.43	130.9	19439.1	-69.3	1285.4	1.00	107.3	462.9	4.6	1.68	1.38	147.8	81.58	49.93	124.7
05/15/83	6.0	10.0	222.1	132.23	131.39	0.84	7.99	110.9	19289.9	-158.2	1281.5	0.04	4.3	18.5	0.2	1.64	1.39	149.3	81.58	49.81	124.5
05/22/83	6.0	10.0	222.1	132.15	131.53	0.61	5.09	70.7	19462.7	181.8	1285.9	2.81	300.1	1300.8	13.0	1.75	1.49	158.9	81.35	50.18	123.9
05/29/83	6.0	10.0	222.1	132.06	131.40	0.66	8.47	117.6	19298.1	-164.7	1281.9	0.26	27.9	120.4	1.2	1.90	1.62	173.1	81.28	50.12	125.2
06/05/83	6.0	10.0	222.1	131.97	131.42	0.55	5.36	74.7	19322.9	24.8	1282.5	1.11	118.6	513.8	5.1	1.34	1.14	121.7	81.52	49.90	124.7
06/12/83	6.0	10.0	222.1	131.88	131.62	0.25	5.81	80.6	19578.3	255.5	1288.7	3.54	378.3	1638.7	16.4	1.61	1.47	156.6	81.30	50.32	124.2
06/19/83	6.0	10.0	222.1	131.78	131.47	0.32	10.97	152.3	19360.4	-197.9	1283.9	0.26	27.9	120.4	1.2	1.75	1.59	171.0	81.46	50.01	125.8
06/26/83	6.0	10.0	222.1	131.69	131.75	-0.06	6.85	95.1	19746.0	365.5	1292.8	4.23	452.6	1958.1	19.6	1.12	1.02	109.0	81.45	50.29	124.6
07/03/83	6.0	10.0	222.1	131.60	131.65	-0.05	15.04	208.8	19618.1	-127.9	1289.7	1.07	115.3	495.3	5.0	1.38	1.26	135.3	81.69	49.96	

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702209.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574093		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonis Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
10/02/83	6.0	10.0	222.1	132.30	131.83	0.67	17.30	240.3	19586.2	-245.6	1288.9	0.00	0.0	0.0	1.24	0.94	101.7	81.71	49.92	125.8	
10/09/83	6.0	10.0	222.1	132.24	131.53	0.71	11.15	154.8	19463.0	-123.2	1265.9	0.31	33.3	143.5	1.4	1.23	0.93	100.4	81.67	49.88	124.8
10/16/83	6.0	10.0	222.1	132.18	131.50	0.68	8.47	117.7	19422.9	-40.1	1285.0	0.65	69.7	300.9	3.0	1.22	0.87	92.8	81.71	49.79	124.1
10/23/83	6.0	10.0	222.1	132.12	131.48	0.64	7.67	106.5	19393.7	-29.2	1284.3	0.40	42.8	185.2	1.9	0.98	0.81	85.4	81.77	49.71	124.1
10/30/83	6.0	10.0	222.1	132.06	131.42	0.64	7.10	98.6	19318.2	-75.6	1282.4	0.00	0.0	0.0	0.0	0.99	0.70	75.2	81.54	49.88	123.9
11/06/83	6.0	10.0	222.1	132.00	131.42	0.58	5.73	79.5	19317.2	-0.9	1282.4	0.37	36.5	171.3	1.7	0.80	0.57	60.7	81.63	49.79	124.1
11/13/83	6.0	10.0	222.1	131.94	131.45	0.49	5.71	79.3	19360.1	42.9	1283.4	0.66	70.5	305.5	3.1	0.56	0.48	49.7	81.57	49.89	123.9
11/20/83	6.0	10.0	222.1	131.97	131.66	0.31	6.48	89.9	19237.7	263.6	1289.8	2.80	296.5	1296.2	13.0	0.64	0.53	56.8	81.67	49.99	124.2
11/27/83	6.0	10.0	222.1	132.00	131.59	0.41	12.02	166.9	19538.5	-95.2	1287.8	0.46	49.4	212.9	2.1	0.75	0.62	66.9	81.53	50.06	125.1
12/04/83	6.0	10.0	222.1	132.04	131.56	0.48	10.08	139.9	19504.8	-33.9	1286.9	0.47	50.4	217.8	2.2	0.49	0.41	43.6	81.59	49.97	125.1
12/11/83	6.0	10.0	222.1	132.06	131.54	0.51	9.34	129.7	19467.8	-36.8	1286.1	0.33	35.4	152.8	1.5	0.50	0.39	41.3	81.84	49.90	124.8
12/18/83	6.0	10.0	222.1	132.06	131.64	0.42	8.57	119.0	19603.5	135.7	1289.3	1.73	165.4	800.8	8.0	0.44	0.34	36.3	81.81	50.04	124.5
12/25/83	6.0	10.0	222.1	132.14	131.57	0.57	11.55	190.4	19514.1	-89.5	1287.2	0.07	7.5	32.4	0.3	0.41	0.32	33.9	81.46	50.13	125.2
01/01/84	6.0	10.0	222.1	132.22	131.81	0.41	9.55	132.6	19825.1	311.1	1294.7	3.46	371.1	1601.7	16.0	0.49	0.38	40.5	81.54	50.27	125.2
01/08/84	6.0	10.0	222.1	132.20	131.66	0.54	17.12	237.8	19628.7	-196.4	1290.0	0.01	1.1	4.8	0.0	0.67	0.52	35.7	81.76	49.90	126.3
01/15/84	6.0	10.0	222.1	132.16	131.63	0.55	12.14	168.6	19585.6	-43.1	1288.9	0.43	46.2	199.1	2.0	0.27	0.19	20.0	81.90	49.73	124.9
01/22/84	6.0	10.0	222.1	132.15	131.60	0.55	11.14	154.6	19549.9	-25.7	1288.0	0.44	47.3	203.7	2.0	0.38	0.26	28.2	81.84	49.76	124.4
01/29/84	6.0	10.0	222.1	132.13	131.55	0.58	10.33	143.4	19490.8	-59.1	1286.6	0.31	33.3	143.5	1.4	0.65	0.45	48.1	82.07	49.48	124.4
02/05/84	6.0	10.0	222.1	132.11	131.49	0.62	9.05	125.7	19412.0	-78.6	1284.7	0.06	6.4	27.8	0.3	0.79	0.55	58.4	82.11	49.39	123.5
02/12/84	6.0	10.0	222.1	132.14	131.43	0.71	7.48	103.6	19333.3	-78.7	1282.8	0.00	0.0	0.0	0.0	0.96	0.69	74.2	82.02	49.41	123.1
02/19/84	6.0	10.0	222.1	132.18	131.44	0.73	5.99	83.2	19349.0	15.8	1283.2	0.60	64.1	277.8	2.8	0.86	0.63	67.1	81.95	49.50	123.0
02/26/84	6.0	10.0	222.1	132.21	131.64	0.57	8.27	87.1	19507.4	248.3	1289.2	2.89	309.0	1337.8	13.4	1.10	0.80	85.9	82.15	49.49	123.2
03/04/84	6.0	10.0	222.1	132.24	131.62	0.62	11.41	158.4	19577.3	-20.1	1289.7	1.21	130.0	560.1	5.6	1.22	0.89	95.7	82.15	49.47	123.8
03/11/84	6.0	10.0	222.1	132.23	131.59	0.64	10.95	152.0	19533.6	-43.7	1287.7	0.99	106.3	458.3	4.6	1.12	0.94	101.0	82.16	49.43	123.7
03/18/84	6.0	10.0	222.1	132.22	131.50	0.72	9.97	138.4	19416.3	-117.3	1284.8	0.25	26.8	115.7	1.2	1.17	0.98	105.5	82.26	49.24	123.5
03/25/84	6.0	10.0	222.1	132.21	131.43	0.78	7.54	104.7	19331.4	-84.9	1282.7	0.31	33.2	143.5	1.4	1.27	1.07	114.2	82.30	49.12	122.8
04/01/84	6.0	10.0	222.1	132.20	131.50	0.70	5.98	82.7	19428.8	97.0	1285.1	1.69	180.7	782.3	7.8	1.21	1.02	108.6	82.25	49.26	122.3
04/08/84	6.0	10.0	222.1	132.46	131.63	0.83	7.78	108.0	19588.0	159.6	1289.0	2.63	261.7	1217.5	12.2	1.43	1.17	125.6	82.58	49.05	122.8
04/15/84	6.0	10.0	222.1	132.42	131.55	0.87	11.19	155.4	19482.1	-105.9	1286.4	0.34	36.5	157.4	1.6	1.00	0.82	88.1	82.78	48.76	122.7
04/22/84	6.0	10.0	222.1	132.38	131.44	0.94	8.87	123.1	19347.8	-134.3	1283.1	0.04	4.3	18.5	0.2	1.32	1.08	116.0	82.98	48.78	121.7
04/29/84	6.0	10.0	222.1	132.34	131.37	0.97	6.25	88.8	19259.9	-87.9	1281.0	0.25	26.7	115.7	1.2	1.48	1.21	129.8	82.57	48.81	121.4
05/06/84	6.0	10.0	222.1	132.30	131.30	1.00	4.75	68.0	19168.8	-81.1	1278.8	0.26	27.8	120.4	1.2	1.77	1.45	154.9	82.57	48.73	121.3
05/13/84	6.0	10.0	222.1	132.24	131.22	1.02	3.30	47.0	19069.9	-107.9	1276.1	0.00	0.0	0.0	0.0	1.79	1.52	162.1	82.27	48.94	120.9
05/20/84	6.0	10.0	222.1	132.19	131.12	1.07	2.03	28.2	18933.8	-127.0	1273.0	0.00	0.0	0.0	0.0	2.21	1.88	199.8	82.07	49.04	121.2
05/27/84	6.0	10.0	222.1	132.13	131.42	0.71	0.83	11.6	19320.9	387.0	1282.5	3.82	405.2	1768.3	17.7	1.39	1.18	125.3	82.13	49.29	121.1
06/03/84	6.0	10.0	222.1	132.07	131.56	0.51	5.77	80.2	19496.1	175.2	1286.7	2.84	303.5	1314.7	13.1	1.77	1.50	160.8	82.01	49.55	122.7
06/10/84	6.0	10.0	222.1	132.06	131.38	0.68	9.18	127.2	19267.3	-228.6	1281.2	0.00	0.0	0.0	0.0	2.05	1.87	200.0	81.77	49.61	123.7
06/17/84	6.0	10.0	222.1	132.06	131.29	0.76	4.87	67.6	19154.3	-113.0	1278.4	0.04	4.3	18.5	0.2	1.53	1.39	148.6	81.67	49.62	123.3
06/24/84	6.0	10.0	222.1	132.05	131.31	0.73	3.19	44.2	19183.2	28.9	1279.1	1.11	118.3	513.8	5.1	1.54	1.40	149.3	81.71	49.61	123.1
07/01/84	6.0	10.0	222.1	132.04	131.42	0.62	3.59	49.8	19315.0	131.8	1282.3	1.85	197.2	856.4	8.6	1.27	1.16	123.2	81.63	49.79	123.1
07/08/84	6.0	10.0	222.1	131.78	131.38	0.40	5.67	78.7	19266.7	-48.2	1281.2	0.84	89.8	388.9	3.9	1.66	1.51	161.4	81.58	49.80	123.9
07/15/84	6.0	10.0	222.1	131.52	131.41	0.11	4.86	67.5	19302.0	35.2	1282.0	1.40	149.5	648.1	6.5	1.58	1.42	151.6	81.57	49.84	123.8
07/22/84	6.0	10.0	222.1	131.79	131.49	0.30	5.45	75.6	19414.0	112.0	1284.7	1.78	190.2	824.0	8.2	1.12	1.02	106.9	81.62	49.87	124.0
07/29/84	6.0	10.0	222.1	132.06	131.46	0.60	7.50	104.1	19367.9	-46.1	1283.6	0.69	73.9	319.4	3.2	1.20	1.09	116.9	81.61	49.84	124.3
08/05/84	6.0	10.0	222.1	132.02	131.51	0.50	6.62	91.9	19441.3	73.4	1285.4	1.92	205.4	868.8	8.9	1.51	1.37	147.0	81.54	49.97	124.2
08/12/84	6.0	10.0	222.1	131.97	131.38	0.59	8.03	111.6	19272.5	-168.8	1281.3	0.00	0.0	0.0	0.0	1.70	1.45	154.8	81.44	49.95	124.6
08/19/84	6.0	10.0	222.1	131.93	131.45	0.48	4.95	68.8	19351.7	79.2	1283.2	1.59	169.8	736.9	7.4	1.40	1.19	127.1	81.43	50.01	124.2
08/26/84	6.0	10.0	222.1	131.88	131.48	0.41	6.32	87.8	19390.3	38.6	1284.2	1.17	125.1	541.8	5.4	1.12	0.95	101.8	81.46	50.01	124.5
09/02/84	6.0	10.0	222.1	131.84	131.39	0.45	7.04	97.7	19278.9	-111.3	1281.5	0.30	32.1	138.9	1.4	1.59	1.35	144.6	81.32	50.07	124.6
09/09/84	6.0	10.0	222.1	131.88	131.33	0.52	5.06	70.3	19208.7	-70.2	1279.7	0.02	2.1	9.3	0.1	1.23	0.93	99.8	81.33	50.01	124.5
09/16/84	6.0	10.0	222.1	131.87	131.28	0.59	3.98	55.0	19138.3	-70.5	1278.0	0.00	0.0	0.0	0.0	1.40	1.06	113.5	81.33	49.95	124.2
09/23/84	6.0	10.0	222.1	131.89	131.24	0.64	2.97	41.3	19094.0	-44.3	1276.9	0.05	5.3	23.1	0.2	1.32	1.00	106.8	81.14	50.11	123.9
09/30/84	6.0	10.0	222.1	131.90	131.40	0.50	2.42	33.5	19287.6	193.6	1281.7	2.03	216.0	939.7	9.4	1.19	0.90	96.2	81.10	50.29	124.2
10/07/84	6.0	10																			

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gainesville Pan Evap. In/week	Sand Hill Lake Evap. In/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/06/85	6.0	10.0	222.1	131.72	131.41	0.31	4.89	69.2	19307.6	33.3	1282.2	0.54	67.7	250.0	2.5	0.65	0.50	53.4	80.45	50.98	126.4
01/13/85	6.0	10.0	222.1	131.67	131.39	0.28	5.54	77.0	19282.5	-25.1	1281.5	0.00	0.0	0.0	0.0	0.59	0.41	43.5	80.27	51.12	126.8
01/20/85	6.0	10.0	222.1	131.63	131.40	0.23	5.12	71.1	19299.0	6.5	1281.7	0.24	25.6	111.1	1.1	0.60	0.41	44.2	80.34	51.05	127.1
01/27/85	6.0	10.0	222.1	131.58	131.39	0.19	5.23	72.6	19277.8	-11.1	1281.4	0.22	23.5	101.8	1.0	0.70	0.55	58.2	80.05	51.33	127.0
02/03/85	6.0	10.0	222.1	131.83	131.40	0.23	5.04	70.0	19287.5	9.7	1281.7	0.35	37.4	162.0	1.6	0.73	0.50	53.8	80.14	51.25	127.6
02/10/85	6.0	10.0	222.1	131.67	131.51	0.16	5.20	72.3	19431.4	143.8	1285.2	1.53	163.4	708.3	7.1	0.63	0.46	49.1	79.95	51.58	127.5
02/17/85	6.0	10.0	222.1	131.65	131.46	0.19	7.84	108.8	19375.8	-55.5	1283.8	0.29	31.1	134.2	1.3	0.93	0.68	72.7	79.92	51.54	128.6
02/24/85	6.0	10.0	222.1	131.64	131.40	0.24	6.77	93.9	19292.8	-63.0	1281.8	0.00	0.0	0.0	0.0	1.06	0.77	82.8	79.85	51.55	128.4
03/03/85	6.0	10.0	222.1	131.62	131.35	0.27	5.29	73.5	19231.1	-61.8	1280.3	0.06	6.4	27.8	0.3	1.14	0.83	88.9	79.79	51.56	128.2
03/10/85	6.0	10.0	222.1	131.58	131.28	0.30	4.30	59.7	19136.4	-64.7	1278.0	0.00	0.0	0.0	0.0	1.44	1.21	129.1	79.54	51.74	128.1
03/17/85	6.0	10.0	222.1	131.64	131.33	0.21	2.95	40.9	19208.7	70.3	1279.7	1.05	111.8	486.1	4.9	1.11	0.93	99.3	79.80	51.73	128.3
03/24/85	6.0	10.0	222.1	131.50	131.30	0.20	3.93	54.8	19185.5	-41.2	1278.7	0.26	27.7	120.4	1.2	1.22	1.02	106.3	79.38	51.92	128.5
03/31/85	6.0	10.0	222.1	131.46	131.22	0.24	3.34	46.4	19068.3	-97.2	1276.3	0.00	0.0	0.0	0.0	1.61	1.35	144.1	79.19	52.04	128.8
04/07/85	6.0	10.0	222.1	131.46	131.22	0.24	2.12	29.4	19060.7	-7.8	1278.1	0.55	58.5	254.6	2.5	1.52	1.25	132.6	79.15	52.07	128.9
04/14/85	6.0	10.0	222.1	131.45	131.52	-0.07	2.03	28.2	19447.8	387.1	1285.6	4.01	426.4	1856.3	18.6	1.41	1.16	123.0	79.24	52.28	128.9
04/21/85	6.0	10.0	222.1	131.45	131.41	0.04	8.16	113.4	19301.2	-146.5	1282.0	0.14	15.0	64.8	0.6	1.60	1.31	140.6	79.14	52.28	130.4
04/28/85	6.0	10.0	222.1	131.44	131.28	0.16	5.43	75.5	19141.0	-160.3	1278.1	0.00	0.0	0.0	0.0	2.02	1.66	177.0	78.93	52.35	130.0
05/05/85	6.0	10.0	222.1	131.44	131.27	0.17	3.01	41.8	19131.1	-9.8	1277.8	0.84	89.5	388.9	3.9	1.78	1.44	153.7	78.93	52.35	129.8
05/12/85	6.0	10.0	222.1	131.39	131.19	0.20	2.88	40.0	19024.2	-108.9	1275.2	0.00	0.0	0.0	0.0	1.76	1.50	159.3	78.80	52.59	129.8
05/19/85	6.0	10.0	222.1	131.33	131.10	0.23	1.84	22.9	18906.6	-117.6	1272.3	0.14	14.9	64.8	0.6	2.24	1.90	202.3	78.36	52.72	130.1
05/26/85	6.0	10.0	222.1	131.28	131.25	0.02	0.83	8.8	19103.8	197.2	1277.2	2.39	253.4	1106.4	11.1	1.67	1.42	150.5	78.31	52.95	130.2
06/02/85	6.0	10.0	222.1	131.22	131.16	0.06	2.54	35.2	18982.5	-121.2	1274.2	0.06	6.4	27.8	0.3	2.03	1.73	183.6	78.04	53.11	131.2
06/09/85	6.0	10.0	222.1	131.29	131.06	0.23	1.24	17.2	18853.6	-129.0	1271.0	0.16	17.0	74.1	0.7	2.28	2.07	220.3	77.95	53.21	131.3
06/16/85	6.0	10.0	222.1	131.36	131.24	0.12	0.31	4.2	19096.6	233.1	1276.8	2.85	301.9	1319.3	13.2	1.75	1.59	168.7	77.99	53.25	131.2
06/23/85	6.0	10.0	222.1	131.43	131.18	0.25	2.33	32.3	19015.0	-71.6	1275.0	0.22	23.4	101.8	1.0	1.59	1.45	153.9	77.81	53.38	131.9
06/30/85	6.0	10.0	222.1	131.50	131.40	0.10	1.55	21.5	19299.6	284.6	1282.0	3.23	343.2	1495.2	15.0	1.47	1.34	142.1	77.86	53.54	132.1
07/07/85	6.0	10.0	222.1	131.58	131.35	0.21	5.41	75.1	19226.2	-73.4	1280.2	0.49	52.3	226.8	2.3	1.46	1.33	141.9	77.72	53.63	132.2
07/14/85	6.0	10.0	222.1	131.62	131.28	0.34	4.22	58.6	19136.7	-89.4	1278.0	0.25	26.7	115.7	1.2	1.62	1.38	147.6	77.69	53.58	132.2
07/21/85	6.0	10.0	222.1	131.68	131.28	0.40	2.95	41.0	19139.9	3.2	1278.1	0.78	83.1	361.1	3.6	1.36	1.24	131.8	77.77	53.51	132.9
07/28/85	6.0	10.0	222.1	131.74	131.22	0.52	2.99	41.6	19062.3	-77.5	1276.2	0.04	4.3	18.5	0.2	1.34	1.22	129.9	77.88	53.34	132.7
08/04/85	6.0	10.0	222.1	131.80	131.56	0.24	2.05	28.5	19500.2	437.8	1286.8	4.48	476.4	2073.9	20.7	1.25	1.14	121.0	78.00	53.56	132.1
08/11/85	6.0	10.0	222.1	132.01	131.56	0.45	9.25	126.4	19493.1	-7.0	1286.7	1.33	142.6	615.7	6.2	1.27	1.08	115.8	78.24	53.31	133.7
08/18/85	6.0	10.0	222.1	132.21	131.72	0.49	9.10	126.4	19708.7	215.6	1291.9	3.41	365.6	1578.5	15.8	1.41	1.20	128.5	78.43	53.29	133.1
08/25/85	6.0	10.0	222.1	132.42	131.85	0.56	14.09	195.7	19679.9	171.2	1296.0	3.44	370.3	1592.4	15.9	1.18	1.00	108.0	78.77	53.09	133.6
09/01/85	6.0	10.0	222.1	132.62	132.07	0.55	16.82	258.6	20161.5	281.6	1302.8	5.15	556.2	2384.0	23.6	1.40	1.19	128.5	79.27	52.80	133.5
09/08/85	6.0	10.0	222.1	132.62	131.86	0.76	26.88	374.6	19857.2	-274.3	1296.2	0.89	96.6	412.0	4.1	1.08	0.82	89.1	79.81	52.25	133.5
09/15/85	6.0	10.0	222.1	132.63	131.87	0.76	18.83	261.4	19645.3	-241.9	1290.4	0.41	44.3	189.8	1.9	1.43	1.09	117.4	79.80	51.87	131.4
09/22/85	6.0	10.0	222.1	132.63	131.86	0.77	12.54	174.1	19627.2	-18.1	1289.9	1.42	152.7	657.3	6.6	1.17	0.89	95.6	79.88	51.78	129.9
09/29/85	6.0	10.0	222.1	132.63	131.52	1.11	12.10	168.1	19443.8	-183.3	1285.6	0.00	0.0	0.0	0.0	1.32	1.00	107.8	79.76	51.76	129.6
10/06/85	6.0	10.0	222.1	132.62	131.45	1.17	8.08	112.3	19359.2	-84.6	1283.4	0.26	27.9	120.4	1.2	1.16	0.88	94.4	79.90	51.55	129.1
10/13/85	6.0	10.0	222.1	132.60	131.45	1.15	6.46	89.7	19355.8	-3.5	1283.3	0.64	68.4	296.3	3.0	1.04	0.74	79.0	79.97	51.48	128.4
10/20/85	6.0	10.0	222.1	132.57	131.39	1.18	6.40	88.8	19282.2	-73.5	1281.5	0.03	3.2	13.9	0.1	1.08	0.77	82.0	79.90	51.49	128.2
10/27/85	6.0	10.0	222.1	132.55	131.39	1.16	5.12	71.0	19279.9	-2.3	1281.5	0.50	53.4	231.5	2.3	1.07	0.76	81.1	79.99	51.40	128.0
11/03/85	6.0	10.0	222.1	132.52	131.80	0.72	5.08	70.5	19815.1	535.2	1294.5	5.29	564.9	2448.8	24.5	1.03	0.73	78.1	80.09	51.71	127.8
11/10/85	6.0	10.0	222.1	132.45	131.83	0.62	16.85	234.0	19588.1	-227.0	1289.0	0.07	7.6	32.4	0.3	1.04	0.86	93.1	79.99	51.64	129.9
11/17/85	6.0	10.0	222.1	132.39	131.53	0.86	11.19	155.4	19482.4	-125.7	1285.9	0.08	8.6	37.0	0.4	0.81	0.67	72.2	79.96	51.57	129.2
11/24/85	6.0	10.0	222.1	132.32	131.54	0.78	8.46	117.5	19470.7	8.2	1286.1	0.79	84.7	365.7	3.7	0.83	0.52	56.0	80.05	51.49	128.7
12/01/85	6.0	10.0	222.1	132.22	131.44	0.74	8.83	119.9	19391.1	-79.8	1284.2	0.00	0.0	0.0	0.0	0.80	0.50	53.4	80.07	51.40	128.5
12/08/85	6.0	10.0	222.1	132.29	131.44	0.85	7.05	97.9	19342.0	-49.1	1283.0	0.66	6.4	27.8	0.3	0.83	0.49	51.9	79.93	51.51	128.1
12/15/85	6.0	10.0	222.1	132.36	131.46	0.90	6.15	85.3	19370.3	28.2	1283.7	0.73	78.0	337.9	3.4	0.75	0.58	61.7	79.85	51.61	128.2
12/22/85	6.0	10.0	222.1	132.42	131.43	1.00	6.66	92.5	19331.0	-39.3	1282.7	0.00	0.0	0.0	0.0	0.49	0.38	40.4	79.94	51.49	128.6
12/29/85	6.0	10.0	222.1	132.49	131.42	1.07	5.95	82.8	19316.5	-14.5	1282.4	0.13	13.9	60.2	0.6	0.49	0.38	40.3	79.87	51.55	128.2
01/05/86	6.0	10.0	222.1	132.56	131.80	0.76	5.70	79.1	19544.5	228.0	1287.9	2.54	271.4	1175.8	11.8	0.85	0.65	69.9	79.90	51.89	128.3
01/12/86	6.0	10.0	222.1	132.20	131.79	0.41															

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day				
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Discharge cfs	Sand Hill Discharge ac-feet				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/04/86	6.0	10.0	222.1	132.22	131.31	0.91	5.79	80.4	19178.7	-143.2	1279.0	0.00	0.0	0.0	1.82	1.49	156.5	80.79	50.52	125.5			
04/13/86	6.0	10.0	222.1	132.12	131.25	0.87	3.52	48.9	19103.8	-74.9	1277.2	0.39	41.6	180.5	1.8	1.90	156.1	80.87	50.38	125.4			
04/20/86	6.0	10.0	222.1	132.02	131.20	0.82	2.54	35.2	19032.4	-71.4	1275.4	0.00	0.0	0.0	1.53	1.25	133.5	80.56	50.64	124.8			
04/27/86	6.0	10.0	222.1	131.95	131.14	0.82	1.73	24.0	18965.4	-67.0	1273.8	0.24	25.5	111.1	1.1	1.91	157.0	80.41	50.73	125.3			
05/04/86	6.0	10.0	222.1	131.90	131.06	0.84	1.09	15.1	18855.6	-109.9	1271.1	0.00	0.0	0.0	2.20	1.80	191.5	80.22	50.83	125.4			
05/11/86	6.0	10.0	222.1	131.88	131.00	0.88	0.32	4.4	18788.6	-67.0	1269.4	0.00	0.0	0.0	1.77	1.50	150.4	80.09	50.91	125.4			
05/18/86	6.0	10.0	222.1	131.86	130.95	0.91	0.02	0.2	18724.1	-64.4	1267.8	0.00	0.0	0.0	1.79	1.52	161.0	79.87	51.08	125.4			
05/25/86	6.0	10.0	222.1	131.84	130.90	0.95			18776.0	51.9	1269.1	0.98	103.5	453.7	4.5	1.70	145.7	79.94	51.15	125.7			
06/01/86	6.0	10.0	222.1	131.82	130.94	0.88			18707.1	-66.9	1267.4	0.19	20.1	88.0	0.9	2.07	176	79.74	51.20	126.0			
06/08/86	6.0	10.0	222.1	131.80	130.91	0.89			18675.7	-31.4	1266.7	0.42	44.4	194.4	1.9	1.81	165	79.59	51.33	125.9			
06/15/86	6.0	10.0	222.1	131.78	131.17	0.60			18964.6	318.0	1274.5	3.41	359.9	1578.5	15.8	1.59	145	79.63	51.53	126.2			
06/22/86	6.0	10.0	222.1	131.88	131.24	0.64	1.25	18.8	19085.6	91.0	1276.7	1.47	156.1	680.5	6.8	1.53	139	79.99	51.25	127.4			
06/29/86	6.0	10.0	222.1	132.00	131.16	0.84	2.32	32.2	18992.8	-92.9	1274.5	0.00	0.0	0.0	1.61	1.47	155.9	79.84	51.32	127.0			
07/06/86	6.0	10.0	222.1	132.12	131.19	0.93	1.33	18.5	19031.8	39.0	1275.4	1.09	115.8	504.8	5.0	1.64	149	79.81	51.39	126.9			
07/13/86	6.0	10.0	222.1	132.03	131.27	0.76	1.72	23.9	19124.8	82.8	1277.7	1.48	155.2	675.9	6.8	1.45	132	79.79	51.48	127.2			
07/20/86	6.0	10.0	222.1	131.93	131.16	0.78	2.80	38.8	18981.7	-142.9	1274.2	0.00	0.0	0.0	2.05	1.87	198.6	79.56	51.59	127.6			
07/27/86	6.0	10.0	222.1	131.84	131.45	0.39	1.23	17.1	19357.9	376.2	1283.4	4.10	435.3	1898.0	19.0	1.61	147	79.63	51.82	129.1			
08/03/86	6.0	10.0	222.1	131.78	131.41	0.35	6.43	89.3	19306.0	-51.9	1282.1	0.74	79.1	342.8	3.4	1.42	129	79.51	51.90	127.6			
08/10/86	6.0	10.0	222.1	131.82	131.42	0.39	5.52	76.6	19325.6	19.6	1282.6	1.12	119.7	518.5	5.2	1.34	114	79.51	51.92	129.1			
08/17/86	6.0	10.0	222.1	131.87	131.59	0.28	5.86	81.3	19542.9	217.3	1287.9	2.83	302.5	1310.1	13.1	1.21	103	79.62	51.98	129.2			
08/24/86	6.0	10.0	222.1	131.93	131.69	0.24	10.18	141.3	19671.4	128.5	1291.0	2.93	314.5	1356.3	13.6	1.65	140	79.55	52.14	129.9			
08/31/86	6.0	10.0	222.1	131.92	131.84	0.28	13.17	192.8	19603.5	-67.9	1289.3	1.17	125.9	541.6	5.4	1.18	100	79.50	52.14	130.6			
09/07/86	6.0	10.0	222.1	131.85	131.81	0.25	11.55	160.3	19558.1	-45.3	1288.2	1.25	134.3	578.6	5.8	1.43	106	79.46	52.15	130.5			
09/14/86	6.0	10.0	222.1	131.78	131.81	0.18	10.51	146.0	19561.5	3.3	1288.3	1.57	168.5	726.8	7.3	1.45	110	79.49	52.12	130.4			
09/21/86	6.0	10.0	222.1	131.72	131.49	0.23	10.59	147.0	19410.1	-151.4	1284.7	0.11	11.8	50.9	0.5	1.33	101	79.35	52.14	130.3			
09/28/86	6.0	10.0	222.1	131.65	131.41	0.23	7.42	103.0	19312.5	-97.6	1282.3	0.17	18.2	78.7	0.8	1.30	99	79.19	52.23	130.0			
10/05/86	6.0	10.0	222.1	131.58	131.35	0.23	5.63	78.1	19229.1	-83.4	1280.2	0.00	0.0	0.0	1.20	0.91	97.5	79.10	52.25	129.9			
10/12/86	6.0	10.0	222.1	131.70	131.55	0.15	4.27	59.2	19480.4	261.3	1286.6	2.68	287.0	1245.2	12.5	0.94	87	79.17	52.38	129.8			
10/19/86	6.0	10.0	222.1	131.64	131.48	0.18	9.04	125.6	19367.2	-123.3	1283.6	0.00	0.0	0.0	1.17	0.83	89.1	79.05	52.40	130.8			
10/26/86	6.0	10.0	222.1	131.58	131.41	0.17	6.61	91.7	19308.3	-58.9	1282.2	0.14	15.0	64.8	0.6	0.98	70.7	79.09	52.32	130.5			
11/02/86	6.0	10.0	222.1	131.52	131.49	0.03	5.56	77.1	19403.4	95.1	1284.5	1.06	113.3	490.7	4.9	0.50	38	79.05	52.43	130.2			
11/09/86	6.0	10.0	222.1	131.53	131.43	0.10	7.29	101.2	19328.8	-74.6	1282.7	0.00	0.0	0.0	0.73	0.61	64.9	78.93	52.49	130.7			
11/16/86	6.0	10.0	222.1	131.54	131.44	0.09	5.91	82.1	19348.2	19.4	1283.1	0.71	75.9	328.7	3.3	0.78	60.2	78.94	52.50	130.6			
11/23/86	6.0	10.0	222.1	131.54	131.41	0.14	6.26	86.9	19301.1	-47.1	1282.0	0.11	11.8	50.9	0.5	0.72	60.0	78.85	52.55	130.7			
11/30/86	6.0	10.0	222.1	131.55	131.64	-0.09	5.43	75.4	19606.8	305.7	1289.4	3.14	335.5	1453.6	14.5	0.68	56	78.97	52.67	130.7			
12/07/86	6.0	10.0	222.1	131.56	131.61	-0.05	11.63	161.4	19567.5	-39.3	1288.5	0.80	86.0	370.3	3.7	0.70	54	78.85	52.77	131.8			
12/14/86	6.0	10.0	222.1	131.62	131.63	-0.01	10.72	148.9	19580.2	22.7	1289.0	1.31	140.7	606.4	6.1	0.79	61	78.85	52.78	131.9			
12/21/86	6.0	10.0	222.1	131.68	131.55	0.13	11.24	156.1	19492.7	-97.6	1286.7	0.05	5.4	23.1	0.2	0.46	35	78.90	52.85	132.0			
12/28/86	6.0	10.0	222.1	131.74	131.60	0.14	9.09	126.2	19548.3	55.7	1288.0	1.14	122.2	527.7	5.3	0.44	34	78.93	52.87	131.5			
01/04/87	6.0	10.0	222.1	131.80	131.68	0.12	10.30	142.9	19659.8	111.5	1290.7	1.87	200.7	865.7	8.7	0.55	42	79.09	52.60	131.8			
01/11/87	6.0	10.0	222.1	131.87	131.60	0.27	12.89	178.9	19546.2	-113.6	1288.0	0.18	19.4	83.3	0.8	0.61	42	79.03	52.57	131.7			
01/18/87	6.0	10.0	222.1	131.94	131.56	0.38	10.25	142.3	19407.2	-49.0	1286.8	0.36	38.6	166.7	1.7	0.51	35	79.12	52.44	131.4			
01/25/87	6.0	10.0	222.1	132.00	131.71	0.29	9.19	127.6	19698.7	201.5	1291.7	2.47	264.9	1143.4	11.4	0.52	36	79.19	52.53	130.9			
02/01/87	6.0	10.0	222.1	132.07	131.60	0.48	13.84	192.2	19545.0	-153.7	1287.9	0.00	0.0	0.0	0.70	0.48	52.0	79.24	52.36	131.6			
02/08/87	6.0	10.0	222.1	132.14	131.69	0.45	10.22	141.9	19686.7	121.7	1290.9	1.98	212.5	916.6	9.2	0.63	46	79.49	52.20	130.9			
02/15/87	6.0	10.0	222.1	132.28	131.56	0.70	13.05	181.2	19503.0	-163.7	1286.9	0.00	0.0	0.0	0.94	0.69	73.8	79.55	52.02	130.7			
02/22/87	6.0	10.0	222.1	132.38	131.77	0.61	9.31	129.3	19775.6	272.5	1293.5	3.39	363.6	1569.3	16.7	0.89	65	79.75	52.02	129.9			
03/01/87	6.0	10.0	222.1	132.50	131.77	0.73	15.81	219.5	19784.6	-11.0	1293.2	1.81	195.1	837.9	8.4	1.10	80	80.05	51.71	130.8			
03/08/87	6.0	10.0	222.1	132.49	131.72	0.77	15.52	215.5	19700.0	-64.6	1291.7	1.35	145.5	624.9	6.2	1.03	87	80.41	51.30	129.8			
03/15/87	6.0	10.0	222.1	132.49	131.57	0.92	13.87	192.6	19513.9	-186.1	1287.2	0.03	3.2	13.9	0.1	1.00	84	80.53	51.04	128.6			
03/22/87	6.0	10.0	222.1	132.59	131.48	1.11	9.54	132.5	19393.1	-120.8	1284.2	0.12	12.9	55.6	0.6	1.07	90	80.76	50.71	127.5			
03/29/87	6.0	10.0	222.1	132.70	131.82	0.88	7.09	98.5	19829.7	436.6	1294.8	4.78	511.6	2212.7	22.1	1.05	88	80.95	50.86	126.4			
04/05/87	6.0	10.0	222.1	132.60	131.84	0.76	17.25	239.5	19859.6	30.0	1295.5	2.48	265.4	1138.8	11.4	1.15	94	81.30	50.54	127.8			
04/12/87	6.0	10.0	222.1	132.50	131.62	0.88	18.06	250.6	19573.8	-285.8	1286.6	0.00	0.0	0.0	1.47	1.21	130.1	81.30	50.32	127.0			
04/19/87	6.0	10.0	222.1	132.40	131.49	0.91	10.87	150.9	19411.2	-192.7	1284.7	0.23	24.7	106.5	1.1	1.52	125	81.37	50.12	125.8			
04/26/87	6.0	10.0	222.1	132.30	131.37	0.93	7.44	103.3	19254.1	-157.1	1280.8	0.00	0.0	0.0	1.72	1.41	151.0	81.20	50.17				

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702209.5 C2 = -241883.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day				
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Sand Hill Discharge cfs	Sand Hill Discharge ac-feet				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
07/05/87	6.0	10.0	222.1	131.88	131.25	0.71	2.98	41.3	19087.0	-41.5	1277.0	0.43	46.8	199.1	2.0	1.48	1.35	143.4	80.08	51.17	128.7		
07/12/87	6.0	10.0	222.1	131.84	131.29	0.85	2.45	34.0	19148.2	51.2	1278.3	1.54	163.9	712.9	7.1	1.87	1.70	181.1	80.08	51.22	128.8		
07/19/87	6.0	10.0	222.1	131.82	131.28	0.86	3.10	43.1	19112.8	-35.4	1277.4	0.40	42.6	185.2	1.0	1.36	1.24	131.8	79.06	51.30	127.1		
07/26/87	6.0	10.0	222.1	131.90	131.28	0.84	2.65	38.8	19111.4	-1.4	1277.4	1.48	166.4	675.9	6.8	2.29	2.08	221.8	79.82	51.43	127.2		
08/02/87	6.0	10.0	222.1	131.88	131.28	0.80	2.63	38.5	19144.9	33.5	1278.2	1.08	112.8	490.7	4.9	1.47	1.34	142.4	79.72	51.66	127.5		
08/09/87	6.0	10.0	222.1	131.82	131.26	0.66	3.06	42.5	19119.8	-25.1	1277.8	0.53	56.5	245.3	2.5	1.50	1.28	136.8	79.43	51.83	127.9		
08/16/87	6.0	10.0	222.1	131.97	131.59	0.38	2.73	38.0	19639.0	419.2	1287.8	4.03	420.0	1865.6	18.7	0.93	0.79	84.2	79.70	51.80	128.5		
08/23/87	6.0	10.0	222.1	132.01	131.43	0.58	10.00	140.1	19338.4	-200.6	1282.9	0.00	0.0	0.0	0.0	1.68	1.43	163.2	79.71	51.72	129.4		
08/30/87	6.0	10.0	222.1	132.08	131.32	0.73	6.08	84.5	19195.3	-143.1	1279.4	0.03	3.2	13.9	0.1	1.71	1.45	165.4	79.54	51.78	128.8		
09/06/87	6.0	10.0	222.1	132.10	131.32	0.78	3.78	52.2	19187.4	-7.9	1279.2	0.22	23.5	101.8	1.0	0.91	0.80	73.7	79.84	51.88	128.6		
09/13/87	6.0	10.0	222.1	132.00	131.44	0.56	3.65	50.6	19343.0	155.6	1283.0	2.03	216.4	939.7	9.4	1.40	1.08	113.4	79.59	51.84	128.3		
09/20/87	6.0	10.0	222.1	131.90	131.47	0.43	6.17	85.8	19383.0	40.0	1284.0	1.26	194.7	583.3	5.8	1.33	1.01	108.1	79.45	52.02	129.1		
09/27/87	6.0	10.0	222.1	131.80	131.39	0.41	6.90	95.8	19278.9	-104.1	1281.5	0.00	0.0	0.0	0.0	1.24	0.84	100.8	79.24	52.14	129.6		
10/04/87	6.0	10.0	222.1	131.70	131.35	0.35	5.06	70.3	19229.7	-49.2	1280.3	0.43	46.9	199.1	2.0	1.47	1.12	119.3	79.18	52.17	129.7		
10/11/87	6.0	10.0	222.1	131.50	131.30	0.20	4.28	59.4	19171.2	-58.5	1278.8	0.00	0.0	0.0	0.0	1.21	0.86	91.7	79.14	52.16	129.6		
10/18/87	6.0	10.0	222.1	131.43	131.26	0.17	3.42	47.5	19115.1	-68.2	1277.5	0.00	0.0	0.0	0.0	1.34	0.95	101.4	79.01	52.25	129.4		
10/25/87	6.0	10.0	222.1	131.37	131.24	0.13	2.68	37.1	19089.7	-25.4	1276.8	0.00	0.0	0.0	0.0	1.07	0.76	80.9	78.80	52.44	129.5		
11/01/87	6.0	10.0	222.1	131.30	131.22	0.08	2.36	32.8	19061.4	-28.2	1276.1	0.00	0.0	0.0	0.0	1.16	0.82	87.6	78.71	52.51	129.9		
11/08/87	6.0	10.0	222.1	131.37	131.33	0.04	2.04	28.3	19203.4	142.0	1279.6	1.42	151.0	657.3	6.6	0.90	0.75	79.4	78.79	52.54	130.0		
11/15/87	6.0	10.0	222.1	131.43	131.30	0.14	3.88	53.9	19181.6	-11.8	1278.6	0.00	0.0	0.0	0.0	0.90	0.75	79.7	78.71	52.59	130.5		
11/22/87	6.0	10.0	222.1	131.50	131.50	0.00	3.29	45.6	19418.1	258.5	1284.8	2.78	294.1	1277.7	12.8	1.09	0.90	98.4	78.74	52.75	130.5		
11/29/87	6.0	10.0	222.1	131.56	131.45	0.12	7.57	105.2	19355.0	-83.1	1283.3	0.13	13.9	60.2	0.6	0.71	0.59	63.1	78.83	52.82	131.5		
12/06/87	6.0	10.0	222.1	131.63	131.39	0.24	6.38	88.6	19286.7	-88.3	1281.6	0.00	0.0	0.0	0.0	0.88	0.66	70.8	78.43	52.96	131.0		
12/13/87	6.0	10.0	222.1	131.63	131.37	0.26	5.19	72.1	19254.7	-32.0	1280.9	0.05	5.3	23.1	0.2	0.88	0.52	56.9	78.43	52.94	131.7		
12/20/87	6.0	10.0	222.1	131.63	131.43	0.19	4.67	64.8	19337.0	82.3	1282.9	0.98	104.6	463.7	4.5	0.84	0.49	52.6	78.39	53.04	131.6		
12/27/87	6.0	10.0	222.1	131.62	131.40	0.22	6.06	84.1	19290.1	-37.9	1281.9	0.02	2.1	9.3	0.1	0.56	0.43	46.1	78.42	52.99	132.0		
01/03/88	6.0	10.0	222.1	131.62	131.40	0.22	5.40	75.0	19292.0	-7.1	1281.8	0.13	13.9	60.2	0.6	0.45	0.36	37.0	78.36	53.04	131.8		
01/10/88	6.0	10.0	222.1	131.62	131.49	0.13	5.28	73.3	19412.9	120.9	1284.7	1.23	131.4	569.4	5.7	0.45	0.31	33.2	78.26	53.23	131.9		
01/17/88	6.0	10.0	222.1	131.63	131.45	0.18	7.47	103.7	19354.2	-58.8	1283.3	0.02	2.1	9.3	0.1	0.63	0.43	46.5	78.22	53.23	132.7		
01/24/88	6.0	10.0	222.1	131.75	131.86	0.09	6.37	88.4	19631.8	277.5	1290.0	2.92	312.3	1361.7	13.5	0.67	0.46	49.4	78.41	53.25	132.5		
01/31/88	6.0	10.0	222.1	131.88	131.85	0.23	12.21	169.6	19813.4	-18.3	1289.8	0.94	101.1	435.1	4.4	0.58	0.40	43.0	78.43	53.22	133.3		
02/07/88	6.0	10.0	222.1	131.92	131.58	0.34	11.78	163.8	19527.9	-85.6	1287.5	0.42	46.1	194.4	1.9	0.74	0.54	58.1	78.42	53.16	133.2		
02/14/88	6.0	10.0	222.1	131.96	131.52	0.44	9.85	136.7	19444.2	-83.6	1285.5	0.25	26.8	115.7	1.2	0.82	0.60	64.2	78.40	53.12	132.8		
02/21/88	6.0	10.0	222.1	132.00	131.62	0.38	8.06	112.4	19832.1	387.9	1294.9	4.08	437.1	1888.7	18.9	0.58	0.42	45.4	78.84	53.18	132.5		
02/28/88	6.0	10.0	222.1	132.04	131.64	0.40	17.31	240.4	19599.1	-233.0	1289.2	0.00	0.0	0.0	0.0	1.03	0.75	81.1	78.73	52.91	133.6		
03/06/88	6.0	10.0	222.1	132.19	131.78	0.41	11.45	159.0	19781.8	182.7	1293.7	2.98	320.2	1378.5	13.8	0.91	0.76	82.1	78.93	52.84	132.4		
03/13/88	6.0	10.0	222.1	132.33	131.88	0.45	15.97	221.7	19907.0	125.2	1296.7	3.24	349.3	1499.9	15.0	1.18	0.99	106.9	79.28	52.60	132.7		
03/20/88	6.0	10.0	222.1	132.28	131.78	0.50	19.38	269.1	19786.4	-120.6	1293.8	1.58	168.6	722.2	7.2	1.29	1.08	117.1	79.30	52.48	132.3		
03/27/88	6.0	10.0	222.1	132.23	131.58	0.65	18.09	223.4	19529.3	-257.1	1287.5	0.00	0.0	0.0	0.0	1.37	1.15	124.1	79.43	52.16	131.8		
04/03/88	6.0	10.0	222.1	132.18	131.44	0.74	9.88	137.1	19342.4	-187.0	1283.0	0.00	0.0	0.0	0.0	1.61	1.32	141.7	79.51	51.93	130.3		
04/10/88	6.0	10.0	222.1	132.10	131.37	0.72	6.15	85.4	19260.5	-81.8	1281.0	0.30	32.1	138.9	1.4	1.16	1.15	122.7	79.28	52.09	129.3		
04/17/88	6.0	10.0	222.1	132.01	131.39	0.62	4.76	66.1	19279.3	18.7	1281.5	0.92	98.2	425.9	4.3	1.26	1.03	110.3	79.19	52.20	129.5		
04/24/88	6.0	10.0	222.1	131.93	131.31	0.61	5.07	70.3	19183.5	-95.7	1279.1	0.13	13.9	60.2	0.6	1.51	1.24	132.2	79.07	52.24	129.8		
05/01/88	6.0	10.0	222.1	131.84	131.29	0.55	3.59	49.9	19155.2	-28.3	1278.4	0.51	64.4	236.1	2.4	1.46	1.20	127.6	79.05	52.24	129.7		
05/08/88	6.0	10.0	222.1	131.83	131.20	0.64	3.20	44.4	19034.0	-121.2	1275.5	0.00	0.0	0.0	0.0	1.67	1.59	169.3	78.74	52.48	129.8		
05/15/88	6.0	10.0	222.1	131.82	131.28	0.55	1.74	24.2	19138.8	104.7	1278.0	1.56	165.8	722.2	7.2	1.51	1.28	136.4	78.93	52.35	129.8		
05/22/88	6.0	10.0	222.1	131.82	131.19	0.63	2.98	41.4	19020.4	-118.3	1275.1	0.00	0.0	0.0	0.0	1.87	1.59	169.3	78.59	52.60	129.8		
05/29/88	6.0	10.0	222.1	131.81	131.22	0.59	1.60	22.3	19059.1	38.7	1276.1	1.17	184.3	841.5	5.4	1.78	1.51	160.8	78.57	52.65	130.2		
06/05/88	6.0	10.0	222.1	131.80	131.11	0.69	2.01	28.0	18922.6	-136.5	1272.7	0.00	0.0	0.0	0.0	2.07	1.88	200.3	78.43	52.68	130.4		
06/12/88	6.0	10.0	222.1	131.71	131.15	0.56	0.75	10.4	18974.3	51.6	1274.0	1.08	114.5	500.0	5.0	1.55	1.41	149.6	78.36	52.79	130.1		
06/19/88	6.0	10.0	222.1	131.61	131.06	0.55	1.17	16.2	18861.3	-112.9	1271.2	0.00	0.0	0.0	0.0	1.95	1.77	188.4	78.01	53.05	130.5		
06/26/88	6.0	10.0	222.1	131.52	131.12	0.40	0.35	4.8	18830.6	69.2	1272.9	1.03	109.1	478.8	4.8	1.36	1.24	131.1	77.88	53.23	130.0		
07/03/88	6.0	10.0	222.1	131.44	131.18	0.26	0.81	11.2	19006.5	75.9	1274.8	1.25	132.6	578.6	5.8	1.47	1.34	141.9	77.84	53.34	131.		

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Aquifer Elevation ft	Sand Hill Leakage ac-feet
10/02/88	6.0	10.0	222.1	132.13	131.70	0.43	16.46	228.8	18983.8	-117.1	1291.3	0.84	101.4	436.1	4.4	1.04	0.79	86.2	79.85	51.85	131.0
10/09/88	6.0	10.0	222.1	132.02	131.84	0.38	13.47	187.1	19802.7	-81.1	1289.3	0.98	105.5	453.7	4.5	1.26	0.89	96.3	79.78	51.88	129.9
10/16/88	6.0	10.0	222.1	131.95	131.52	0.43	11.53	160.1	19454.2	-148.5	1295.7	0.00	0.0	0.0	0.0	1.06	0.75	80.9	79.71	51.81	129.7
10/23/88	6.0	10.0	222.1	131.88	131.43	0.45	8.29	115.2	19330.7	-123.4	1282.7	0.00	0.0	0.0	0.0	1.33	0.94	101.2	79.71	51.72	129.3
10/30/88	6.0	10.0	222.1	131.81	131.38	0.43	5.95	82.6	19265.7	-85.0	1281.1	0.00	0.0	0.0	0.0	1.00	0.71	75.9	79.58	51.80	128.7
11/06/88	6.0	10.0	222.1	131.74	131.41	0.33	4.84	67.3	19307.6	41.9	1282.2	0.81	86.5	375.0	3.7	0.84	0.70	74.4	79.87	51.74	128.8
11/13/88	6.0	10.0	222.1	131.78	131.37	0.41	5.64	77.0	19252.2	-55.4	1280.8	0.00	0.0	0.0	0.0	0.81	0.67	71.8	79.51	51.85	128.7
11/20/88	6.0	10.0	222.1	131.82	131.34	0.48	4.63	64.3	19217.5	-34.8	1280.0	0.00	0.0	0.0	0.0	0.72	0.60	63.8	79.54	51.80	128.9
11/27/88	6.0	10.0	222.1	131.86	131.49	0.37	4.09	56.8	19410.1	192.7	1284.7	1.99	212.3	821.2	9.2	0.74	0.61	65.5	79.63	51.86	128.7
12/04/88	6.0	10.0	222.1	131.90	131.48	0.42	7.42	103.0	19391.1	-19.1	1284.2	0.40	42.8	185.2	1.9	0.65	0.50	53.6	79.61	51.87	129.3
12/11/88	6.0	10.0	222.1	131.80	131.44	0.36	7.05	97.9	19340.7	-50.3	1283.0	0.00	0.0	0.0	0.0	0.55	0.42	45.3	79.63	51.80	129.2
12/18/88	6.0	10.0	222.1	131.79	131.53	0.26	8.12	95.0	19464.3	123.6	1286.0	1.33	142.2	615.7	6.2	0.40	0.31	32.9	79.43	52.10	129.0
12/25/88	6.0	10.0	222.1	131.78	131.48	0.30	8.50	118.0	19393.9	-70.4	1284.3	0.00	0.0	0.0	0.0	0.54	0.42	44.6	79.51	51.97	130.0
01/01/89	6.0	10.0	222.1	131.78	131.44	0.34	7.11	98.7	19340.9	-53.0	1283.0	0.00	0.0	0.0	0.0	0.57	0.44	47.0	79.53	51.91	129.5
01/08/89	6.0	10.0	222.1	131.77	131.40	0.37	6.13	85.1	19291.9	-48.9	1281.8	0.00	0.0	0.0	0.0	0.77	0.53	56.8	79.32	52.07	129.2
01/15/89	6.0	10.0	222.1	131.77	131.39	0.38	5.28	73.3	19275.2	-16.8	1281.4	0.00	0.0	0.0	0.0	0.49	0.34	36.1	79.22	52.17	129.5
01/22/89	6.0	10.0	222.1	131.76	131.46	0.30	5.00	69.4	19369.2	94.1	1283.7	1.14	121.7	527.7	5.3	0.76	0.52	56.0	79.32	52.14	129.7
01/29/89	6.0	10.0	222.1	131.76	131.42	0.34	6.64	92.2	19314.3	-54.9	1282.3	0.01	1.1	4.8	0.0	0.76	0.52	56.1	79.18	52.25	129.9
02/05/89	6.0	10.0	222.1	131.70	131.37	0.33	5.66	78.6	19290.8	-53.5	1281.0	0.00	0.0	0.0	0.0	0.86	0.63	67.1	79.05	52.33	130.0
02/12/89	6.0	10.0	222.1	131.64	131.33	0.31	4.76	68.2	19205.6	-65.1	1279.7	0.00	0.0	0.0	0.0	1.04	0.76	81.0	78.85	52.48	130.1
02/19/89	6.0	10.0	222.1	131.63	131.31	0.32	3.91	54.3	19174.6	-31.0	1278.9	0.00	0.0	0.0	0.0	0.88	0.64	66.5	78.81	52.50	130.3
02/26/89	6.0	10.0	222.1	131.63	131.35	0.28	3.47	48.1	19234.0	59.3	1280.4	0.84	89.5	388.9	3.9	1.00	0.73	77.8	78.82	52.73	130.3
03/05/89	6.0	10.0	222.1	131.62	131.42	0.20	4.34	60.3	19318.2	84.2	1282.4	1.26	134.4	583.3	5.8	0.97	0.81	86.9	78.76	52.67	131.0
03/12/89	6.0	10.0	222.1	131.58	131.39	0.21	5.73	79.5	19247.2	-71.0	1280.7	0.00	0.0	0.0	0.0	0.92	0.77	82.6	78.82	52.74	131.1
03/19/89	6.0	10.0	222.1	131.53	131.28	0.25	4.55	63.1	19134.4	-112.8	1277.9	0.00	0.0	0.0	0.0	1.57	1.32	140.7	78.32	52.95	131.1
03/26/89	6.0	10.0	222.1	131.49	131.26	0.23	2.92	40.6	19112.4	-21.9	1277.4	0.30	31.9	138.8	1.4	1.18	0.99	105.6	78.36	52.90	131.3
04/02/89	6.0	10.0	222.1	131.44	131.19	0.25	2.84	36.7	19022.7	-89.7	1275.2	0.00	0.0	0.0	0.0	1.65	1.35	144.0	78.09	53.10	131.1
04/09/89	6.0	10.0	222.1	131.43	131.16	0.27	1.83	22.6	18990.2	-32.5	1274.4	0.31	32.9	143.5	1.4	1.55	1.27	136.1	78.10	53.06	131.4
04/16/89	6.0	10.0	222.1	131.42	131.24	0.18	1.31	18.2	19084.6	94.3	1276.7	1.92	108.3	472.2	4.7	1.05	0.86	91.4	78.08	53.16	131.2
04/23/89	6.0	10.0	222.1	131.41	131.19	0.22	2.30	32.0	19024.6	-80.0	1275.2	0.01	1.1	4.8	0.0	1.37	1.12	119.5	77.81	53.38	131.7
04/30/89	6.0	10.0	222.1	131.40	131.11	0.29	1.85	22.9	18928.0	-96.6	1272.9	0.00	0.0	0.0	0.0	1.88	1.54	163.8	77.58	53.53	132.1
05/07/89	6.0	10.0	222.1	131.35	131.13	0.22	0.79	10.9	18943.5	15.5	1273.2	0.77	81.7	356.4	3.6	1.65	1.40	148.8	77.62	53.50	132.2
05/14/89	6.0	10.0	222.1	131.30	131.08	0.22	0.91	12.6	18897.2	-56.3	1271.9	0.30	31.8	138.9	1.4	1.85	1.57	166.8	77.46	53.63	132.2
05/21/89	6.0	10.0	222.1	131.25	131.01	0.24	0.50	7.0	18799.3	-88.0	1269.7	0.02	2.1	9.3	0.1	1.92	1.63	173.0	77.22	53.79	132.3
05/28/89	6.0	10.0	222.1	131.20	131.03	0.17	0.06	0.8	18828.0	28.7	1270.4	0.84	88.9	388.9	3.9	1.70	1.45	182.9	77.03	54.01	132.5
06/04/89	6.0	10.0	222.1	131.08	130.94	0.14	0.18	2.6	18707.2	-120.8	1267.4	0.05	5.3	23.1	0.2	2.21	2.01	212.9	76.82	54.12	133.1
06/11/89	6.0	10.0	222.1	131.07	131.01	0.06			18791.4	84.2	1269.5	1.29	136.2	597.2	6.0	1.53	1.39	147.1	76.98	54.04	133.1
06/18/89	6.0	10.0	222.1	131.06	131.05	0.01	0.03	0.4	18846.9	54.5	1270.8	1.93	140.7	615.7	6.2	1.88	1.71	181.0	76.82	54.23	133.1
06/25/89	6.0	10.0	222.1	131.05	131.43	-0.38	0.26	3.7	19337.3	491.4	1282.9	5.17	547.5	2393.3	23.9	1.71	1.56	164.8	76.94	54.50	133.7
07/02/89	6.0	10.0	222.1	131.04	131.59	-0.55	6.06	84.2	19539.2	201.9	1287.8	3.22	344.2	1490.6	14.9	1.64	1.49	159.5	76.95	54.64	136.7
07/09/89	6.0	10.0	222.1	131.04	131.43	-0.39	10.09	140.2	19333.6	-205.6	1282.8	0.02	2.1	9.3	0.1	1.57	1.43	153.3	76.78	54.65	136.5
07/16/89	6.0	10.0	222.1	131.04	131.32	-0.28	6.00	83.3	19194.1	-139.5	1279.4	0.18	19.2	83.3	0.8	1.67	1.52	162.5	76.82	54.50	136.0
07/23/89	6.0	10.0	222.1	131.04	131.53	-0.49	3.74	52.0	19463.4	269.4	1285.9	3.39	361.4	1569.3	15.7	1.47	1.34	142.6	76.76	54.78	136.3
07/30/89	6.0	10.0	222.1	131.05	131.37	-0.32	8.48	117.8	19255.2	-208.2	1280.9	0.04	4.3	18.5	0.2	1.85	1.68	180.4	76.70	54.87	136.7
08/06/89	6.0	10.0	222.1	131.05	131.33	-0.28	4.68	64.9	19207.6	-47.5	1279.7	0.75	90.1	347.2	3.5	1.68	1.43	152.4	76.64	54.70	136.9
08/13/89	6.0	10.0	222.1	131.05	131.46	-0.41	3.94	54.7	19379.8	166.1	1283.8	2.28	241.0	1046.2	10.5	1.29	1.10	116.9	76.65	54.81	136.8
08/20/89	6.0	10.0	222.1	131.04	131.44	-0.40	6.73	93.4	19340.3	-33.5	1282.9	1.00	107.0	482.9	4.6	1.51	1.28	137.3	76.60	54.84	136.5
08/27/89	6.0	10.0	222.1	131.04	131.58	-0.54	6.12	84.9	19518.7	178.5	1287.3	3.06	327.2	1416.5	14.2	1.80	1.53	163.6	76.61	54.96	136.5
09/03/89	6.0	10.0	222.1	131.04	131.76	-0.72	9.65	134.0	19753.5	234.8	1293.0	3.87	415.2	1791.5	17.9	1.83	1.39	149.2	76.61	55.14	137.3
09/10/89	6.0	10.0	222.1	131.06	131.70	-0.64	15.23	211.5	19685.6	-67.9	1291.3	1.53	164.9	708.3	7.1	1.37	1.04	112.2	76.69	55.01	136.4
09/17/89	6.0	10.0	222.1	131.08	131.62	-0.54	13.52	187.7	19561.8	-103.8	1288.8	0.98	105.5	453.7	4.5	1.35	1.03	110.4	76.81	54.81	137.8
09/24/89	6.0	10.0	222.1	131.10	131.82	-0.52	11.05	153.4	19578.9	-2.9	1288.8	1.40	150.4	648.1	6.5	1.12	0.85	91.4	76.81	54.81	137.1
10/01/89	6.0	10.0	222.1	131.12	131.85	-0.53	10.98	152.5	19821.2	42.3	1289.8	1.65	177.2	763.8	7.8	0.92	0.70	75.1	76.87	54.79	137.1
10/08/89	6.0	10.0	222.1	131.02	131.64	-0.62	11.98	166.1	19607.1	-14.1	1289.4										

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 5555		Gainesville Pan Evap. in/week	Sand Hill Lake Evap. in/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day						
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						C1 = 10702299.5	C2 = -241893.95				C3 = 1822.0827	C4 = -4.574083	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
01/07/90	6.0	10.0	222.1	130.68	131.53	-0.85	8.20	113.8	19462.3	12.9	1295.9	0.82	87.8	379.8	3.8	0.86	0.48	48.8	76.14	56.39	138.3				
01/14/90	6.0	10.0	222.1	130.67	131.50	-0.83	8.48	117.5	19418.8	-43.5	1284.9	0.48	48.3	212.9	2.1	0.83	0.57	61.4	75.00	56.80	138.2				
01/21/90	6.0	10.0	222.1	130.67	131.43	-0.76	7.59	105.4	19334.2	-84.6	1292.8	0.00	0.0	0.0	0.0	0.85	0.59	62.8	76.01	56.42	138.6				
01/28/90	6.0	10.0	222.1	130.66	131.40	-0.74	6.01	83.4	19287.8	-48.8	1281.7	0.21	22.4	97.2	1.0	0.96	0.66	70.8	75.93	56.47	138.0				
02/04/90	6.0	10.0	222.1	130.70	131.39	-0.69	5.20	72.3	19279.1	-8.5	1281.5	0.39	41.7	180.5	1.8	0.82	0.80	63.9	75.96	56.43	137.9				
02/11/90	6.0	10.0	222.1	130.70	131.42	-0.72	5.06	70.3	19313.5	34.5	1282.3	0.89	95.0	412.0	4.1	1.01	0.74	78.7	75.94	56.48	137.8				
02/18/90	6.0	10.0	222.1	130.71	131.40	-0.69	5.65	78.4	19296.0	-15.5	1281.9	0.60	64.1	277.8	2.8	1.13	0.82	88.1	75.84	56.56	138.0				
02/25/90	6.0	10.0	222.1	130.71	131.48	-0.78	5.38	74.7	19403.0	105.0	1284.5	1.37	146.4	634.2	6.3	0.73	0.53	56.9	75.94	56.55	138.2				
03/04/90	6.0	10.0	222.1	130.72	131.43	-0.71	7.28	101.1	19332.0	-71.0	1282.7	0.43	46.0	199.1	2.0	1.13	0.95	101.6	76.14	56.29	138.4				
03/11/90	6.0	10.0	222.1	130.68	131.35	-0.68	5.97	82.9	19234.0	-98.0	1280.4	0.04	4.3	18.5	0.2	1.16	0.97	104.2	75.96	56.41	137.6				
03/18/90	6.0	10.0	222.1	130.63	131.32	-0.69	4.34	60.3	19196.4	-37.8	1279.4	0.58	61.9	268.5	2.7	1.41	1.18	126.4	75.94	56.39	137.7				
03/25/90	6.0	10.0	222.1	130.59	131.25	-0.66	3.78	52.5	19106.8	-89.8	1277.2	0.00	0.0	0.0	0.0	1.38	1.14	121.8	75.79	56.46	137.5				
04/01/90	6.0	10.0	222.1	130.56	131.42	-0.86	2.57	35.7	19323.4	216.8	1282.5	2.57	273.5	1189.7	11.9	1.35	1.11	117.8	75.82	56.61	137.4				
04/08/90	6.0	10.0	222.1	130.49	131.50	-1.01	5.82	80.8	19423.2	90.8	1285.0	2.11	225.5	976.8	9.8	1.58	1.30	138.5	75.84	56.86	138.4				
04/15/90	6.0	10.0	222.1	130.42	131.37	-0.95	7.67	106.6	19260.1	-163.1	1281.0	0.01	1.1	4.6	0.0	1.60	1.31	140.5	75.80	56.78	138.3				
04/22/90	6.0	10.0	222.1	130.45	131.28	-0.83	4.75	66.0	19146.3	-113.8	1278.2	0.00	0.0	0.0	0.0	1.50	1.23	131.3	75.53	56.75	138.6				
04/29/90	6.0	10.0	222.1	130.48	131.34	-0.86	3.08	42.8	19217.3	71.0	1280.0	1.55	166.1	717.5	7.2	1.63	1.34	142.4	75.54	56.80	138.3				
05/06/90	6.0	10.0	222.1	130.45	131.23	-0.77	4.09	58.6	19072.8	-144.8	1276.4	0.00	0.0	0.0	0.0	1.89	1.61	171.4	75.40	56.83	138.6				
05/13/90	6.0	10.0	222.1	130.43	131.19	-0.77	2.17	30.1	19029.2	-43.8	1275.3	0.54	57.4	250.0	2.5	1.74	1.48	157.3	75.21	56.98	138.3				
05/20/90	6.0	10.0	222.1	130.40	131.21	-0.82	1.69	23.5	19054.5	25.3	1276.0	1.34	142.4	620.3	6.2	2.03	1.73	183.4	75.20	56.01	138.5				
05/27/90	6.0	10.0	222.1	130.37	131.14	-0.77	1.96	27.2	18966.8	-87.7	1273.8	0.03	3.2	13.9	0.1	1.74	1.48	157.3	75.02	56.11	138.7				
06/03/90	6.0	10.0	222.1	130.30	131.16	-0.86	1.02	14.1	18981.6	34.8	1274.2	1.42	150.7	867.3	6.6	2.09	1.90	201.9	74.83	56.32	138.7				
06/10/90	6.0	10.0	222.1	130.35	131.24	-0.90	1.23	17.1	19064.9	113.3	1277.0	1.58	167.8	731.4	7.3	1.32	1.20	127.5	74.96	56.29	138.3				
06/17/90	6.0	10.0	222.1	130.39	131.14	-0.75	2.43	33.7	18957.3	-137.6	1273.8	0.02	2.1	9.3	0.1	1.96	1.77	188.8	74.80	56.34	138.5				
06/24/90	6.0	10.0	222.1	130.44	131.40	-0.96	1.02	14.2	19293.7	336.4	1281.8	3.96	420.3	1833.2	17.7	1.61	1.70	170.9	75.00	56.40	138.2				
07/01/90	6.0	10.0	222.1	130.48	131.59	-1.11	5.31	73.7	19338.0	244.3	1287.8	3.34	366.8	1546.1	15.5	1.40	1.27	136.1	75.02	56.57	140.3				
07/08/90	6.0	10.0	222.1	130.46	131.50	-1.05	10.07	139.8	19424.9	-113.1	1285.0	0.86	92.3	398.1	4.0	1.54	1.40	150.4	74.86	56.65	141.4				
07/15/90	6.0	10.0	222.1	130.43	131.98	-1.54	7.71	107.0	20038.6	613.7	1299.9	7.14	784.6	3305.2	33.1	1.82	1.47	157.9	74.94	57.04	141.2				
07/22/90	6.0	10.0	222.1	130.41	131.87	-1.46	23.21	322.2	19901.4	-137.1	1296.8	2.29	348.1	1060.1	10.6	1.54	1.40	151.8	74.95	56.92	143.9				
07/29/90	6.0	10.0	222.1	130.40	131.59	-1.19	19.23	268.9	19396.5	-365.0	1287.7	0.07	7.8	32.4	0.3	1.88	1.71	184.8	75.00	56.59	143.2				
08/05/90	6.0	10.0	222.1	130.40	131.48	-1.08	10.04	139.3	19366.0	-170.5	1293.8	0.41	44.0	189.8	1.9	1.73	1.47	157.8	74.73	56.73	141.4				
08/12/90	6.0	10.0	222.1	130.35	131.60	-1.26	8.68	91.4	19555.9	189.9	1288.2	2.79	298.4	1291.5	12.9	1.72	1.04	110.9	74.71	56.90	141.3				
08/19/90	6.0	10.0	222.1	130.29	131.56	-1.27	10.46	145.3	19503.3	-52.6	1286.9	1.32	141.7	611.1	6.1	1.48	1.26	136.0	74.66	56.91	142.2				
08/26/90	6.0	10.0	222.1	130.24	131.58	-1.34	9.32	129.4	19521.3	18.1	1287.4	1.80	193.0	833.3	8.3	1.47	1.25	134.0	74.62	56.96	142.1				
09/02/90	6.0	10.0	222.1	130.18	131.61	-1.43	9.70	134.7	19566.0	44.7	1288.4	2.07	222.1	968.2	9.6	1.62	1.23	132.1	74.56	57.05	142.3				
09/09/90	6.0	10.0	222.1	130.07	131.49	-1.43	10.69	148.5	19414.5	-151.5	1284.8	0.29	31.1	134.2	1.3	1.41	1.07	115.1	74.51	56.98	142.6				
09/16/90	6.0	10.0	222.1	129.95	131.43	-1.48	7.50	104.2	19332.1	-82.4	1282.8	0.52	56.7	240.7	2.4	1.43	1.06	116.4	74.46	56.97	142.1				
09/23/90	6.0	10.0	222.1	129.84	131.34	-1.51	5.97	82.9	19218.4	-113.7	1280.0	0.22	23.5	101.8	1.0	1.67	1.27	135.7	74.40	56.94	141.8				
09/30/90	6.0	10.0	222.1	129.72	131.35	-1.63	4.10	57.0	19225.6	7.2	1280.2	0.82	87.5	379.8	3.8	1.33	1.01	107.8	74.36	57.00	141.4				
10/07/90	6.0	10.0	222.1	129.72	131.30	-1.58	4.21	58.5	19162.7	-63.0	1278.8	0.08	8.5	37.0	0.4	1.24	0.88	93.9	74.26	57.01	141.6				
10/14/90	6.0	10.0	222.1	129.71	131.51	-1.80	3.30	45.8	19436.5	276.9	1285.4	3.00	319.7	1388.8	13.9	1.21	0.86	91.5	74.24	57.28	141.4				
10/21/90	6.0	10.0	222.1	129.71	131.43	-1.73	8.00	111.1	19337.5	-102.0	1282.9	0.12	12.9	55.6	0.6	1.10	0.78	83.7	74.18	57.25	142.9				
10/28/90	6.0	10.0	222.1	129.70	131.40	-1.70	6.07	84.2	19298.4	-39.1	1281.9	0.31	33.1	143.5	1.4	0.91	0.65	90.1	74.13	57.27	142.5				
11/04/90	6.0	10.0	222.1	129.70	131.35	-1.65	5.39	74.8	19226.2	-72.3	1280.2	0.00	0.0	0.0	0.0	0.87	0.72	77.1	74.08	57.27	142.5				
11/11/90	6.0	10.0	222.1	129.65	131.37	-1.72	4.22	58.6	19253.5	27.3	1280.8	0.77	82.1	356.4	3.6	0.90	0.75	79.7	74.02	57.35	142.3				
11/18/90	6.0	10.0	222.1	129.60	131.32	-1.72	4.65	64.5	19188.8	-64.6	1279.3	0.00	0.0	0.0	0.0	0.90	0.75	79.7	73.99	57.33	142.5				
11/25/90	6.0	10.0	222.1	129.55	131.31	-1.76	3.67	50.9	19174.9	-13.9	1278.9	0.14	14.9	64.8	0.6	0.86	0.55	58.4	73.89	57.41	142.3				
12/02/90	6.0	10.0	222.1	129.50	131.30	-1.80	3.47	48.2	19195.9	-9.0	1278.7	0.16	17.1	74.1	0.7	0.71	0.56	58.3	73.77	57.53	142.5				
12/09/90	6.0	10.0	222.1	129.49	131.41	-1.92	3.35	48.4	18301.3	136.4	1282.0	1.32	140.7	611.1	6.1	0.54	0.42	44.3	73.78	57.62	142.7				
12/16/90	6.0	10.0	222.1	129.47	131.37	-1.90	5.44	75.5	18261.1	-40.3	1281.0	0.00	0.0	0.0	0.0	0.53	0.41	43.6	73.84	57.54	143.3				
12/23/90	6.0	10.0	222.1	129.45	131.35	-1.90	4.77	66.2	19226.3	-34.8	1280.2	0.00	0.0	0.0	0.0	0.58	0.46	47.7	73.79	57.56	143.0				
12/30/90	6.0	10.0	222.1	129.44	131.33	-1.89	4.22	58.7	19205.3	-21.0	1279.7	0.07	7.5	32.4	0.3	0.60	0.46	49.3	73.79	57.54	143.0				
01/06/91	6.0	10.0	222.1	129.42	131.33	-1.91	3.91	54.3	19206.1	0.7	1279.7	0.00	0.0	0.0	0.0	0.33	0.23	24.3	73.70	57.63	142.9				
01/13/91																									

SAND HILL LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Effective Inflow = 100%		Effective Surface Inflow ac-feet	Measured Sand Hill Elevation ft	Calculated Sand Hill Elevation ft	Elevation Difference (Meas. - Calculated) ft	Outlet (ft) = 131.0 C1 = 10702299.5 C2 = -241893.95 C3 = 1822.0827 C4 = -4.574083		Sand Hill Volume at Start of Week ac-feet	Change in Sand Hill Volume During Week ac-feet	Sand Hill Surface Area acres	Etonia Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 5555 Runoff Coeff. = 0.01		Gainesville Pan Evap. In/week	Sand Hill Lake Evap. In/week	Sand Hill Lake Evap. ac-feet	Leakance = 2.772E-04 1/day		
	Blue Pond Discharge cfs	Natural Springs Discharge cfs					Sand Hill Discharge cfs	Sand Hill Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Sand Hill Leakage ac-feet
04/07/01	6.0	10.0	222.1	130.18	131.48	-1.30	10.88	151.1	18394.4	-180.0	1284.3	0.01	1.1	4.8	0.0	1.25	1.03	110.1	74.99	56.49	142.2
04/14/01	6.0	10.0	222.1	130.22	131.47	-1.25	7.12	98.8	18385.9	-8.5	1284.1	1.11	118.8	513.8	5.1	1.31	1.07	115.0	75.13	56.34	140.8
04/21/01	6.0	10.0	222.1	130.40	131.69	-1.29	6.98	96.6	18663.6	277.7	1290.8	3.43	367.0	1587.8	15.9	1.03	0.84	90.4	75.23	56.46	140.4
04/28/01	6.0	10.0	222.1	130.58	131.66	-1.08	12.98	180.2	19630.4	-33.2	1290.0	1.40	150.6	648.1	6.5	1.03	0.84	90.9	75.37	56.29	141.4
05/05/01	6.0	10.0	222.1	130.76	131.61	-0.75	12.18	169.1	19437.8	-182.8	1285.3	0.36	38.7	166.7	1.7	1.59	1.35	145.3	75.29	56.22	140.9
05/12/01	6.0	10.0	222.1	130.69	131.44	-0.75	7.96	110.5	19341.5	-96.1	1283.0	0.61	65.3	282.4	2.8	1.49	1.27	135.7	75.25	56.19	140.2
05/19/01	6.0	10.0	222.1	130.82	131.38	-0.76	6.14	85.2	19270.6	-70.9	1281.3	0.80	86.5	370.3	3.7	1.73	1.47	157.2	75.24	56.14	139.9
05/26/01	6.0	10.0	222.1	130.55	131.40	-0.85	4.82	64.4	19289.9	19.3	1281.7	1.04	111.0	481.4	4.8	1.22	1.04	110.7	75.22	56.18	139.6
06/02/01	6.0	10.0	222.1	130.48	131.56	-1.08	5.24	72.8	19505.0	215.1	1287.0	2.96	316.2	1370.2	13.7	1.28	1.16	124.4	75.27	56.29	139.7
06/09/01	6.0	10.0	222.1	130.58	131.57	-0.99	8.35	129.9	19596.9	1.9	1287.0	1.80	171.6	740.7	7.4	1.32	1.20	128.8	75.52	56.05	140.6
06/16/01	6.0	10.0	222.1	130.88	131.40	-0.72	9.39	130.4	19287.9	-219.0	1281.7	0.00	0.0	0.0	0.0	1.75	1.59	170.8	76.02	55.38	140.0
06/23/01	6.0	10.0	222.1	130.87	131.44	-0.57	5.21	72.3	19341.4	53.5	1283.0	1.61	172.0	745.3	7.5	1.42	1.29	138.0	76.23	55.21	137.7
06/30/01	6.0	10.0	222.1	131.06	131.49	-0.43	6.14	85.2	19408.6	67.2	1284.6	1.95	206.5	802.7	9.0	1.54	1.40	149.8	76.21	55.28	137.4
07/07/01	6.0	10.0	222.1	131.23	131.40	-0.18	7.39	102.6	19295.1	-113.4	1281.8	0.43	46.0	199.1	2.0	1.47	1.34	143.2	76.22	55.18	137.8
07/14/01	6.0	10.0	222.1	131.39	131.50	-0.11	5.33	74.0	19425.7	130.6	1285.0	1.92	206.1	888.8	8.0	0.97	0.88	94.3	76.27	55.23	137.3
07/21/01	6.0	10.0	222.1	131.56	131.46	0.09	7.72	107.2	19375.1	-50.6	1283.8	0.99	106.0	458.3	4.6	1.42	1.29	138.4	76.27	55.19	137.7
07/28/01	6.0	10.0	222.1	131.72	131.57	0.15	6.75	93.8	19517.1	142.0	1287.3	2.47	264.2	1143.4	11.4	1.28	1.16	124.6	76.62	54.95	137.5
08/04/01	6.0	10.0	222.1	131.74	131.78	-0.02	9.61	133.5	19754.7	237.6	1293.0	3.25	348.6	1504.5	15.0	0.85	0.72	77.5	76.90	54.86	137.3
08/11/01	6.0	10.0	222.1	131.73	131.59	0.14	15.26	211.9	19641.8	-212.9	1287.9	0.38	40.9	175.9	1.8	1.40	1.19	128.2	77.01	54.58	137.6
08/18/01	6.0	10.0	222.1	131.72	131.50	0.22	10.15	140.9	19422.7	-119.0	1285.0	0.66	70.8	305.5	3.1	1.51	1.28	137.7	77.01	54.49	136.4
08/25/01	6.0	10.0	222.1	131.71	131.47	0.24	7.67	106.4	19387.7	-35.0	1284.1	0.82	87.8	379.6	3.8	1.17	0.99	106.5	76.77	54.70	136.9
09/01/01	6.0	10.0	222.1	131.70	131.75	-0.05	6.99	97.0	19747.1	359.4	1292.8	4.07	435.5	1884.1	18.8	1.03	0.78	83.8	76.77	54.98	136.3
09/08/01	6.0	10.0	222.1	131.82	131.61	0.02	15.07	209.2	19580.8	-186.3	1288.3	0.46	49.6	212.9	2.1	1.38	1.05	113.0	76.77	54.84	137.9
09/15/01	6.0	10.0	222.1	131.55	131.47	0.08	10.57	146.8	19378.6	-182.2	1283.9	0.01	1.1	4.8	0.0	1.49	1.13	121.6	76.64	54.83	137.1
Max	6.00	10.00	222.15	132.72	132.48	1.18	44.82	622.27	20690.87	1061.79	1315.45	10.02	1067.47	4838.43	46.38	2.72	2.23	237.88	85.23	56.02	145.34
Min	6.00	10.00	222.15	129.42	130.43	-2.26	0.00	0.00	18059.51	-639.34	1251.35	0.00	0.00	0.00	0.00	0.27	0.19	20.03	73.55	46.21	114.76
Mean	6.00	10.00	222.15	131.83	131.45	0.18	7.17	99.55	19358.78	-0.51	1283.34	1.00	106.53	461.11	4.61	1.22	1.00	107.27	80.46	50.99	126.97
Std.Dev.	0.00	0.00	0.00	0.52	0.21	0.49	4.68	85.01	263.46	153.68	6.42	1.26	136.04	584.66	5.85	0.45	0.42	44.54	2.52	2.49	6.16

D9. Magnolia Lake Long-Term Lake Stage Simulation

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin = 123.2 C1 = -379366.2 C2 = 91838.34 C3 = -742.7 C4 = 2				Drainage area = 2176 Runoff Coeff. = 0.01				Leakance = 3.28E-04 1/day									
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																		
01/03/85	132.01				125.18	125.18	0.00													86.29	36.87	
01/10/85	132.01	24.58	341.24	313.94	125.06	125.44	-0.38	18.31	226.5	5430.3	0.0	210.2	0.0	0.0	0.0	0.72	0.55	9.7	86.33	36.11	18.9	
01/17/85	132.02	24.51	340.32	313.10	124.98	125.40	-0.42	21.70	301.3	5481.2	-8.0	211.2	0.40	7.0	72.5	0.7	0.62	0.48	8.4	86.33	36.07	18.1
01/24/85	132.03	24.86	345.15	317.54	124.85	125.44	-0.49	20.89	290.1	5489.1	7.9	211.3	0.42	7.4	78.2	0.6	0.64	0.49	8.7	86.20	36.24	18.0
01/31/85	132.04	25.21	350.00	322.00	124.90	125.47	-0.57	21.70	301.3	5488.8	7.6	211.5	1.04	18.3	188.8	1.9	1.05	0.81	14.2	86.29	36.18	19.1
02/07/85	132.05	25.56	354.87	326.48	125.01	125.47	-0.46	22.49	312.3	5485.7	-0.9	211.5	0.72	12.7	130.8	1.3	0.82	0.57	10.0	85.98	36.49	19.3
02/14/85	132.05	25.91	359.77	330.99	125.13	125.80	-0.47	22.39	310.9	5523.8	27.9	212.0	1.94	34.2	351.8	3.5	0.87	0.80	10.6	86.13	36.47	19.1
02/21/85	132.06	26.27	364.68	335.51	125.08	125.37	-0.29	25.54	354.7	5475.0	-48.6	211.1	0.05	0.9	9.1	0.1	0.91	0.63	11.1	86.17	36.20	19.3
02/28/85	132.07	26.62	369.62	340.05	125.09	125.68	-0.59	20.28	281.6	5539.1	84.1	212.3	2.03	35.7	368.1	3.7	1.21	0.83	14.7	86.37	36.30	19.1
03/07/85	132.08	26.96	374.58	344.61	125.18	125.51	-0.33	27.45	381.1	5504.8	-34.2	211.6	1.95	34.5	353.6	3.5	1.28	0.93	18.5	86.62	36.80	19.3
03/14/85	132.04	27.34	379.58	349.19	125.09	125.58	-0.49	23.39	324.7	5518.2	13.3	211.9	0.88	17.3	177.7	1.8	0.87	0.84	11.2	86.55	36.02	18.0
03/21/85	132.00	25.71	368.97	328.41	125.22	125.43	-0.21	24.90	345.8	5488.8	-31.5	211.3	1.08	19.1	195.8	2.0	1.25	0.91	18.1	86.83	36.80	19.1
03/28/85	131.98	24.12	334.83	308.05	125.17	125.30	-0.13	21.45	297.8	5460.8	-28.0	210.8	0.00	0.0	0.0	0.0	1.35	0.99	17.4	86.67	36.63	18.9
04/04/85	131.92	22.56	313.17	288.12	125.03	125.24	-0.21	18.92	262.7	5447.9	-12.7	210.5	0.00	0.0	0.0	0.0	1.31	1.10	19.3	86.56	36.68	18.8
04/11/85	131.88	21.03	292.02	268.65	124.90	125.14	-0.24	17.79	247.0	5425.5	-22.4	210.1	0.00	0.0	0.0	0.0	1.72	1.44	25.3	86.56	36.57	18.6
04/18/85	131.84	19.55	271.39	249.67	124.75	125.04	-0.29	15.94	221.2	5404.4	-21.1	209.6	0.02	0.4	3.8	0.0	2.12	1.78	31.2	86.37	36.66	18.7
04/25/85	131.75	18.10	251.31	231.20	124.62	125.23	-0.61	14.36	199.4	5448.0	-41.5	210.5	2.74	47.9	496.9	5.0	1.66	1.39	24.4	86.35	36.89	18.7
05/02/85	131.66	15.00	208.28	191.60	124.60	124.81	-0.21	17.82	244.6	5357.4	-86.6	208.7	0.38	6.7	68.9	0.7	1.67	1.37	24.0	86.10	36.72	18.9
05/09/85	131.57	12.13	168.41	154.94	124.52	124.58	-0.04	11.37	157.9	5305.1	-52.3	207.7	0.00	0.0	0.0	0.0	2.15	1.76	30.7	85.98	36.58	18.7
05/16/85	131.49	9.51	132.03	121.46	124.43	124.33	0.07	8.77	121.7	5257.3	-47.8	207.0	0.18	3.1	32.6	0.3	2.29	1.88	32.5	85.78	36.57	18.5
05/23/85	131.39	7.16	98.38	91.43	124.28	124.08	0.22	6.89	95.7	5202.3	-55.0	205.8	0.00	0.0	0.0	0.0	2.29	1.88	32.3	85.21	36.86	18.4
05/30/85	131.30	5.10	70.77	65.10	124.19	123.82	0.37	5.15	71.5	5153.3	-48.0	204.8	0.26	4.5	47.1	0.5	2.07	1.70	29.1	84.95	36.88	18.4
06/06/85	131.38	3.35	46.45	42.73	124.12	123.67	0.45	3.90	52.8	5122.3	-30.9	203.9	1.48	24.9	284.7	2.6	2.07	1.76	30.0	84.79	36.89	18.4
06/13/85	131.46	4.83	67.12	61.75	124.74	124.11	0.63	2.98	41.3	5127.7	90.3	205.8	5.75	97.7	1042.7	10.4	1.38	1.17	19.9	85.10	36.91	18.3
06/20/85	131.53	6.58	91.02	83.74	124.88	124.26	0.62	5.46	75.8	5242.9	30.3	206.4	3.06	52.5	554.9	5.5	1.18	1.00	17.2	85.19	36.97	18.5
06/27/85	131.61	6.50	117.95	108.52	124.87	124.24	0.63	6.40	88.9	5239.3	-3.7	206.3	1.04	17.9	188.6	1.9	1.67	1.42	24.4	85.31	36.94	18.6
07/04/85	131.69	10.64	147.75	135.93	124.83	124.30	0.53	8.28	87.2	5250.4	11.1	206.8	0.48	8.3	87.0	0.9	1.80	1.64	28.2	85.60	36.69	18.5
07/11/85	131.77	12.98	180.23	165.82	124.82	124.57	0.25	6.85	82.4	5307.2	56.8	207.7	1.51	28.0	273.8	2.7	1.72	1.57	28.9	85.71	36.66	18.5
07/18/85	131.84	15.50	215.22	198.01	124.80	125.12	-0.22	8.88	123.0	5422.0	114.8	210.0	4.05	70.1	734.4	7.3	1.21	1.10	19.1	85.88	36.24	18.6
07/25/85	131.92	18.19	252.54	232.34	124.88	125.02	-0.18	15.88	217.4	5401.5	-20.4	209.6	0.55	9.6	99.7	1.0	1.89	1.54	28.9	86.01	36.02	19.0
08/01/85	132.00	21.03	292.02	268.65	125.15	125.58	-0.41	14.18	198.6	5514.2	112.6	211.8	4.14	72.3	750.7	7.5	1.28	1.16	20.3	86.35	36.21	18.9
08/08/85	132.08	24.02	353.46	306.79	125.37	125.38	-0.01	24.44	339.3	5471.5	-42.7	211.0	1.82	28.6	293.8	2.9	1.40	1.27	22.5	86.73	36.82	19.2
08/15/85	132.15	27.13	378.71	346.57	125.33	125.58	-0.23	19.94	276.9	5515.1	-43.6	211.8	0.82	16.2	168.8	1.7	1.57	1.43	25.1	86.94	36.82	18.8
08/22/85	132.23	30.36	421.58	387.85	125.26	125.64	-0.38	24.55	340.8	5531.1	18.0	212.2	0.78	13.8	141.4	1.4	1.70	1.55	27.3	86.99	36.84	18.9
08/29/85	132.17	33.70	467.89	430.46	125.48	125.94	-0.46	28.46	367.3	5594.9	83.8	213.4	2.54	44.9	480.6	4.6	1.86	1.89	29.9	87.11	36.83	18.9
09/05/85	132.11	31.00	430.43	398.00	125.31	125.31	0.01	35.33	490.6	5481.9	-133.0	210.8	0.14	2.5	25.4	0.3	1.48	1.24	22.1	87.15	36.16	19.1
09/12/85	132.04	28.37	393.89	362.38	125.10	125.59	-0.49	19.04	284.3	5521.9	80.0	212.0	0.18	3.2	32.6	0.3	1.54	1.31	23.0	87.06	36.53	18.6
09/19/85	131.98	25.81	368.37	329.70	125.08	125.36	-0.30	25.34	351.8	5471.9	-50.0	211.0	0.53	9.4	98.1	1.0	1.29	1.10	19.4	87.06	36.30	18.9
09/26/85	131.88	23.33	323.94	298.03	124.95	125.30	-0.35	19.98	277.4	5459.0	-12.9	210.7	0.25	4.4	45.3	0.5	1.32	1.12	19.7	87.06	36.21	18.7
10/03/85	132.14	19.55	271.39	249.67	125.28	125.27	-0.01	18.77	290.6	5454.3	-4.7	210.6	2.17	38.1	393.5	3.9	1.29	0.98	17.2	87.24	36.03	18.6
10/10/85	132.12	29.83	414.24	381.10	125.35	125.78	-0.43	18.35	254.7	5561.3	107.0	212.8	0.85	14.9	154.1	1.5	1.30	0.99	17.3	87.32	36.48	18.5
10/17/85	132.08	29.00	402.58	370.37	125.22	125.39	-0.17	30.39	421.9	5477.8	-83.5	211.1	0.05	0.9	9.1	0.1	1.04	0.79	14.0	87.26	36.12	18.9
10/24/85	131.98	27.34	379.58	349.19	125.08	125.54	-0.46	20.56	285.4	5511.2	33.4	211.8	0.08	1.4	14.5	0.1	1.00	0.78	13.4	87.10	36.44	18.6
10/31/85	131.82	22.56	313.17	288.12	124.95	125.19	-0.24	24.10	334.6	5436.5	-74.7	210.3	0.20	3.5	36.3	0.4	0.98	0.75	13.3	87.11	36.08	18.6
11/07/85	131.78	17.39	241.48	222.16	124.88	125.00	-0.14	16.82	233.6	5396.9	-39.6	209.5	0.11	1.9	19.9	0.2	0.95	0.67	11.8	87.02	37.98	18.5
11/14/85	131.78	16.01	222.27	204.49	124.81	124.93	-0.12	13.84	192.2	5382.8	-14.1	209.2	0.00	0.0	0.0	0.0	0.65	0.46	8.1	86.95	37.99	18.4
11/21/85	131.72	15.33	212.89	195.86	124.75	124.88	-0.13	12.91	179.2	5370.9	-11.9	209.0	0.00	0.0	0.0	0.0	0.83	0.59	10.3	86.91	37.96	18.3
11/28/85	131.72	14.02	194.61	179.04	124.74	124.89	-0.15	12.16	168.9	5374.0	3.1	209.0	1.10	19.2	199.5	2.0	0.80	0.57	9.9	86.80	36.09	18.3
12/05/85	131.64	14.02	194.61	179.04	124.83	124.82	-0.19	12.35	171.5	5359.2	-14.8	208.7	0.30	5.2	54.4	0.5	0.67	0.56	9.7	86.80	36.02	18.4
12/12/85	131.62	11.53	160.02	147.22	124.65	124.63	0.02	11.48	159.4	5319.2	-40.0	207.9	0.00	0.0	0.0	0.0	0.68	0.55	9.5	86.81	36.02	18.3
12/19/85	131.88	10.83	151.80	139.65	125.00	124.90	0.10	9.41	130.8	5375.9	56.6	209.1	3.83	66.4	694.5	6.9	0.52	0.43				

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 1070200 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -379396.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Florida Aquifer Elevation elev	Florida Lake - Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																		
04/03/66	131.82	21.03	292.02	268.65	124.90	125.07	-0.17	21.11	293.1	5410.8	-72.6	209.8	0.00	0.0	0.0	2.01	1.69	28.7	87.84	37.43	18.4	
04/10/66	131.78	17.39	241.48	222.16	124.84	125.06	-0.22	14.82	205.8	5408.4	-1.3	209.7	1.46	25.5	284.7	2.6	1.89	1.59	27.8	87.53	37.53	18.1
04/17/66	131.72	18.01	222.27	204.49	124.71	124.88	-0.17	14.72	204.4	5371.4	-38.0	209.0	0.08	1.4	14.5	0.1	1.46	1.23	21.4	87.43	37.45	18.2
04/24/66	131.67	14.02	194.61	179.04	124.62	124.75	-0.13	12.20	169.3	5345.3	-28.2	208.5	0.55	9.6	99.7	1.0	1.94	1.63	28.4	87.22	37.54	18.1
05/01/66	131.64	12.44	172.67	158.86	124.55	124.59	-0.04	10.71	148.7	5311.6	-33.7	207.8	0.00	0.0	0.0	0.0	1.81	1.48	25.8	87.08	37.51	18.1
05/08/66	131.84	11.53	160.02	147.22	124.70	124.78	-0.08	9.05	125.7	5350.5	38.9	208.6	3.01	52.1	545.8	5.5	1.58	1.28	22.2	87.27	37.51	18.0
05/15/66	131.80	18.10	231.20	213.20	124.69	125.05	-0.36	10.99	152.6	5407.8	57.2	209.7	1.01	17.8	183.1	1.8	1.59	1.30	22.7	87.13	37.93	18.1
05/22/66	131.82	16.70	231.80	213.26	124.68	124.95	-0.27	14.80	202.8	5386.1	-21.7	209.3	0.60	10.5	106.8	1.1	1.77	1.45	25.4	87.06	37.67	18.4
05/29/66	131.77	17.39	241.48	222.16	124.66	125.14	-0.28	13.12	182.1	5425.4	39.3	210.1	1.93	33.7	350.3	3.5	1.37	1.12	19.6	87.15	37.98	18.3
06/05/66	131.72	15.67	217.56	200.16	124.68	124.83	-0.15	15.93	221.2	5390.4	-65.0	208.8	0.10	1.8	18.1	0.2	1.85	1.57	27.5	86.95	37.88	18.4
06/12/66	131.68	14.02	194.61	179.04	124.78	125.04	-0.26	11.54	160.3	5405.5	45.1	209.7	3.59	62.5	651.0	6.5	1.65	1.40	24.4	87.27	37.77	18.3
06/19/66	131.82	19.55	271.39	249.67	124.80	125.26	-0.46	14.44	200.4	5451.9	46.5	210.6	2.30	40.2	417.1	4.2	1.94	1.65	28.8	87.06	38.20	18.3
06/26/66	131.68	21.03	292.02	268.65	124.70	125.15	-0.45	18.14	251.8	5429.2	-22.8	210.1	0.27	4.7	48.0	0.5	1.78	1.50	28.3	86.89	38.26	18.6
07/03/66	131.68	18.82	261.28	240.37	124.90	125.20	-0.30	16.23	225.3	5438.8	9.7	210.3	1.88	32.8	337.3	3.4	1.43	1.30	22.8	87.12	38.08	18.6
07/10/66	131.82	23.33	323.94	298.03	124.88	125.27	-0.41	17.01	238.2	5453.1	14.2	210.6	0.08	1.4	14.5	0.1	1.92	1.75	30.6	87.02	38.25	18.5
07/17/66	131.80	21.03	292.02	268.65	124.78	125.14	-0.36	18.24	253.2	5425.9	-27.2	210.1	0.35	6.1	63.2	0.6	1.93	1.78	30.8	86.92	38.22	18.6
07/24/66	131.72	16.70	231.80	213.26	124.68	124.98	-0.31	15.88	221.7	5394.9	-31.0	209.5	0.92	16.1	168.8	1.7	1.37	1.25	21.8	86.89	38.11	18.5
07/31/66	131.72	14.02	194.61	179.04	124.61	125.00	-0.39	13.70	180.2	5398.9	2.0	209.5	2.81	49.0	509.5	5.1	1.42	1.29	22.6	86.84	38.18	18.4
08/07/66	131.76	14.02	194.61	179.04	124.68	124.90	-0.22	13.84	192.1	5375.0	-21.8	209.1	1.59	27.8	288.3	2.9	1.32	1.20	21.0	86.82	38.07	18.5
08/14/66	131.94	15.33	212.89	195.86	124.85	125.21	-0.28	12.42	172.4	5440.2	65.2	208.4	4.36	76.0	790.6	7.9	1.50	1.37	23.8	87.04	38.17	18.4
08/21/66	131.68	21.79	302.53	278.33	124.90	125.35	-0.45	17.13	237.8	5470.0	29.8	211.0	1.70	29.8	308.3	3.1	1.57	1.43	25.0	87.11	38.24	18.5
08/28/66	131.68	19.55	271.39	249.67	125.10	125.13	-0.03	19.80	274.9	5424.5	-45.5	210.1	1.38	23.9	246.6	2.5	1.75	1.59	28.0	87.35	37.78	18.6
09/04/66	131.82	23.33	323.94	298.03	124.92	125.29	-0.37	15.88	220.2	5458.4	33.9	210.7	0.00	0.0	0.0	0.0	1.72	1.46	25.6	87.24	38.06	18.3
09/11/66	131.76	17.39	241.48	222.16	124.86	125.18	-0.32	18.72	259.9	5434.4	-24.0	210.2	3.06	53.7	554.9	5.5	1.81	1.54	27.0	87.35	37.83	18.5
09/18/66	131.74	15.33	212.89	195.86	124.92	124.98	-0.06	15.88	231.2	5388.2	-48.3	209.3	1.50	28.5	272.0	2.7	1.45	1.23	21.6	87.36	37.60	18.4
09/25/66	131.68	14.87	203.67	187.38	125.03	125.14	-0.11	13.25	184.0	5425.5	37.4	210.1	3.67	64.0	665.5	6.7	1.25	1.06	18.5	87.28	37.88	18.2
10/02/66	131.68	19.55	271.39	249.67	125.18	125.41	-0.23	15.84	221.3	5482.6	57.1	211.2	3.25	56.9	599.3	5.9	1.18	0.90	15.7	87.54	37.87	18.4
10/09/66	131.82	22.58	313.17	288.12	124.98	125.25	-0.27	21.04	282.1	5448.0	-33.6	210.5	0.21	3.7	38.1	0.4	1.14	0.87	15.2	87.78	37.48	18.5
10/16/66	131.88	17.39	241.48	222.16	125.01	125.05	-0.04	17.88	248.3	5408.2	-42.8	209.7	0.90	15.8	163.2	1.6	1.19	0.90	15.9	87.73	37.32	18.2
10/23/66	131.78	18.82	261.28	240.37	124.85	125.10	-0.25	14.49	201.2	5417.7	11.5	209.9	0.24	4.2	43.5	0.4	1.07	0.81	14.2	87.73	37.37	18.1
10/30/66	131.88	15.33	212.89	195.86	124.98	124.98	0.00	15.34	213.0	5387.5	-30.2	209.3	0.90	15.7	163.2	1.6	0.93	0.71	12.4	87.75	37.21	18.1
11/06/66	131.76	19.55	271.39	249.67	124.91	125.13	-0.22	13.21	183.4	5424.9	37.4	210.1	0.00	0.0	10.9	0.1	0.97	0.89	12.0	87.55	37.59	18.0
11/13/66	131.72	15.33	212.89	195.86	124.82	124.88	-0.06	15.89	220.7	5370.7	-54.2	209.0	0.00	0.0	0.0	0.0	0.90	0.84	11.2	87.39	37.49	18.2
11/20/66	131.61	14.02	194.61	179.04	124.72	124.78	-0.06	12.15	168.7	5350.6	-20.2	208.6	0.00	0.0	0.0	0.0	1.00	0.71	12.4	87.27	37.49	18.1
11/27/66	131.51	10.84	147.75	135.93	124.82	124.56	0.08	10.89	152.7	5305.2	-45.4	207.7	0.00	0.0	0.0	0.0	0.86	0.61	10.6	87.19	37.37	18.1
12/04/66	131.50	7.91	108.63	101.05	124.52	124.32	0.20	8.77	121.8	5254.7	-50.5	208.6	0.16	2.8	29.0	0.3	1.04	0.86	14.9	86.89	37.42	17.9
12/11/66	131.50	7.86	108.30	97.80	124.51	124.21	0.30	6.80	94.4	5232.2	-22.5	208.2	0.00	0.0	0.0	0.0	0.56	0.46	8.0	86.84	37.37	17.9
12/18/66	131.50	7.86	108.30	97.80	124.54	124.24	0.30	6.08	84.1	5239.7	7.5	208.3	0.87	14.9	157.8	1.6	0.35	0.29	5.0	86.82	37.63	17.8
12/25/66	131.48	7.86	108.30	97.80	124.55	124.17	0.38	6.30	87.4	5225.2	-14.4	208.0	0.08	1.4	14.5	0.1	0.59	0.49	8.4	86.47	37.70	17.9
01/01/67	131.48	7.16	99.38	91.43	124.54	124.10	0.44	5.84	61.0	5210.1	-15.1	205.7	0.14	2.4	25.4	0.3	0.77	0.59	10.2	86.48	37.62	17.9
01/08/67	131.62	6.67	92.67	85.25	124.71	124.28	0.43	5.38	74.7	5247.2	37.1	206.5	2.83	48.5	513.2	5.1	0.70	0.54	9.2	86.47	37.81	17.9
01/15/67	131.58	10.93	151.80	139.65	124.72	124.47	0.25	6.55	90.9	5267.2	40.0	207.3	0.85	14.6	154.1	1.5	0.52	0.40	6.9	86.51	37.97	18.0
01/22/67	131.58	9.79	135.89	125.02	124.69	124.41	0.28	8.02	111.3	5274.5	-12.7	207.0	0.07	1.2	12.7	0.1	0.72	0.55	9.6	86.18	38.24	18.2
01/29/67	131.54	9.79	135.89	125.02	124.83	124.38	0.25	7.52	104.4	5268.0	-6.8	208.9	0.28	4.8	50.8	0.5	1.07	0.82	14.2	86.28	38.11	18.3
02/05/67	131.50	8.99	120.72	111.06	124.57	124.30	0.27	7.28	101.0	5251.8	-16.2	208.6	0.08	1.4	14.5	0.1	0.80	0.55	9.5	86.35	37.96	18.2
02/12/67	131.70	7.86	108.30	97.80	124.80	124.60	0.20	6.70	93.1	5312.2	60.4	207.8	4.40	75.7	797.9	8.0	0.84	0.58	10.0	86.52	38.08	18.1
02/19/67	131.82	13.36	185.71	170.86	124.97	124.77	0.20	9.08	128.1	5348.6	38.6	208.5	1.18	20.1	210.3	2.1	1.01	0.70	12.1	86.71	38.06	18.3
02/26/67	131.80	21.03	292.02	268.65	124.88	125.22	-0.34	10.90	151.3	5443.0	94.2	210.4	0.45	7.8	81.6	0.8	1.12	0.77	13.4	86.54	38.68	18.3
03/05/67	131.74	16.70	231.80	213.26	124.81	124.94	-0.13	17.37	241.1	5383.4	-59.6	209.2	0.00	0.0	0.0	0.0	1.01	0.74	12.9	86.65	38.28	18.8
03/12/67	131.72	14.67	203.67	187.38	124.79	124.88	-0.07	12.95	179.7	5396.4	-17.1	208.9	0.55	9.6	99.7	1.0	1.32	0.96	16.8	86.54	38.31	18.5
03/19/67	131.64	14.02	194.61	179.04	124.84	124.73	-0.09	11.89														

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 1070230.0 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%				Hmin = 123.2 C1 = -379366.2 C2 = 91999.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.298E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge ac-feet		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet						Overland Runoff Volume ac-feet	Florida Aquifer Elevation elev				Florida - Lake - Aquifer Elevation ft	Brooklyn Leakage ac-feet	
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																					Magnolia Discharge cfs
07/02/67	131.58	5.75	79.84	73.45	124.52	124.07	0.45	2.10	29.1	5204.3	113.4	205.6	5.73	97.1	1039.0	10.4	1.32	1.20	20.3	85.25	38.82	18.0			
07/09/67	131.56	9.79	135.89	125.02	124.49	124.33	0.16	5.21	72.4	5257.2	52.9	206.7	2.36	40.4	427.9	4.3	1.67	1.52	28.0	85.30	39.03	18.4			
07/16/67	131.46	9.23	128.21	117.95	124.40	124.44	-0.04	6.89	95.7	5280.3	23.1	207.2	2.65	45.8	480.5	4.8	1.98	1.80	31.0	85.40	39.05	18.6			
07/23/67	131.48	8.67	92.67	85.25	124.44	124.23	0.21	7.74	107.5	5236.3	-44.0	206.3	0.95	16.4	172.3	1.7	1.35	1.23	21.2	85.34	38.89	18.7			
07/30/67	131.52	7.16	99.39	91.43	124.55	124.12	0.43	6.19	85.9	5214.7	-21.6	205.6	0.84	11.0	118.1	1.2	1.33	1.21	20.8	85.40	38.73	18.5			
08/06/67	131.65	8.17	113.41	104.34	124.68	124.19	0.49	5.52	78.6	5228.7	14.0	208.1	1.35	23.2	244.8	2.4	1.34	1.22	20.9	85.45	38.74	18.4			
08/13/67	131.90	12.75	176.98	162.82	124.67	124.80	-0.13	5.95	82.6	5355.0	128.3	208.7	4.30	73.9	779.7	7.8	1.10	1.00	17.2	85.58	39.23	18.4			
08/20/67	131.84	20.28	281.63	259.10	124.89	125.10	-0.21	11.24	156.0	5416.6	61.8	209.9	0.12	2.1	21.8	0.2	1.57	1.43	24.8	85.68	39.43	18.9			
08/27/67	131.80	18.10	251.31	231.20	124.87	124.99	-0.12	15.25	211.8	5394.8	-21.8	209.5	0.29	5.1	52.8	0.5	1.74	1.58	27.7	86.01	38.99	19.1			
09/03/67	131.76	18.70	231.80	213.26	124.78	125.03	-0.25	13.70	190.2	5403.6	8.8	209.6	1.53	28.7	277.4	2.8	1.68	1.43	24.9	86.11	38.92	18.9			
09/10/67	131.78	15.33	212.89	195.86	124.79	124.87	-0.06	14.31	198.6	5370.0	-33.6	209.0	4.00	7.0	72.5	0.7	1.33	1.13	18.9	86.12	38.75	18.8			
09/17/67	131.82	15.33	212.89	195.86	124.84	124.82	-0.02	12.11	168.1	5356.4	-11.6	208.7	0.01	0.2	1.8	0.0	1.41	1.20	20.9	86.02	38.79	18.7			
09/24/67	131.52	10.93	151.80	139.85	124.58	124.52	0.06	11.43	158.7	5297.8	-60.8	207.5	0.00	0.0	0.0	0.0	1.56	1.33	23.1	85.81	38.62	18.7			
10/01/67	131.52	8.17	113.41	104.34	124.54	124.38	0.16	8.44	117.2	5263.4	-34.2	208.8	0.84	16.3	170.5	1.7	1.58	1.20	20.8	85.86	38.50	18.5			
10/08/67	131.48	8.17	113.41	104.34	124.49	124.21	0.28	7.11	98.7	5233.5	-29.9	208.2	0.00	0.0	0.0	0.0	1.31	1.00	17.2	85.82	38.40	18.4			
10/15/67	131.38	7.16	99.39	91.43	124.44	124.14	0.30	6.10	84.8	5218.9	-14.6	205.9	0.89	11.9	125.1	1.3	1.24	0.94	18.2	85.84	38.51	18.3			
10/22/67	131.32	4.89	67.85	62.42	124.31	123.94	0.37	5.64	78.4	5176.4	-42.5	205.0	0.44	7.8	79.8	0.8	1.27	0.97	16.6	85.54	38.40	18.3			
10/29/67	131.24	3.71	51.46	47.35	124.24	123.71	0.53	4.43	61.5	5129.9	-48.6	204.1	0.07	1.2	12.7	0.1	1.20	0.91	15.6	85.30	38.41	18.2			
11/05/67	131.22	2.36	32.78	30.14	124.20	123.55	0.65	3.18	44.1	5098.0	-31.8	203.4	0.70	11.9	126.9	1.3	1.07	0.76	12.9	85.64	37.92	18.1			
11/12/67	131.12	2.06	28.68	26.37	124.02	123.38	0.64	2.30	32.0	5061.8	-36.2	202.7	0.00	0.0	0.0	0.0	1.08	0.75	12.8	85.07	38.30	17.8			
11/19/67	131.16	0.85	11.82	10.87	123.95	123.20	0.75	1.22	18.9	5028.9	-35.0	202.0	0.00	0.0	0.0	0.0	0.92	0.65	11.0	84.81	38.39	17.9			
11/26/67	131.20	1.28	17.82	16.99	123.81	123.14	0.67	0.02	0.2	5013.4	-13.5	201.7	0.00	0.0	0.0	0.0	0.98	0.70	11.7	84.91	38.22	17.9			
12/03/67	131.24	1.79	24.80	22.82	123.83	123.10	0.73	0.73	0.0	5065.2	-8.1	201.5	0.08	1.3	14.5	0.1	1.05	0.87	14.6	84.53	38.56	17.8			
12/10/67	131.29	2.36	32.78	30.14	123.95	123.14	0.81	0.14	0.0	5014.6	9.4	201.7	0.14	2.4	25.4	0.3	0.39	0.32	5.4	84.67	38.47	17.9			
12/17/67	131.34	3.17	44.02	40.50	124.10	123.58	0.52	34.1	298.8	5103.4	88.8	203.6	4.01	67.4	727.1	7.3	0.61	0.51	6.5	84.70	38.68	17.9			
12/24/67	131.30	4.08	56.71	52.17	124.14	123.53	0.61	2.45	34.1	5082.7	-10.7	203.3	0.10	1.7	18.1	0.2	0.88	0.73	12.4	84.59	38.94	18.3			
12/31/67	131.36	3.35	48.45	42.73	124.18	123.58	0.60	2.15	29.8	5100.2	7.5	203.5	1.05	17.8	190.4	1.9	0.52	0.40	6.8	84.69	38.68	18.3			
01/07/68	131.32	4.48	62.17	57.19	124.17	123.57	0.60	2.36	32.8	5101.4	1.2	203.5	0.12	2.0	21.8	0.2	0.55	0.42	7.2	84.57	39.00	18.3			
01/14/68	131.32	3.71	51.46	47.35	124.11	123.52	0.59	2.40	33.3	5092.2	-9.2	203.3	0.10	1.7	18.1	0.2	0.52	0.40	6.8	84.51	39.02	18.3			
01/21/68	131.28	3.71	51.46	47.35	124.07	123.48	0.59	2.14	29.7	5082.2	-10.0	203.1	0.00	0.0	0.0	0.0	0.72	0.55	8.4	84.33	39.15	18.3			
01/28/68	131.22	3.00	41.65	38.32	124.02	123.43	0.59	1.84	25.8	5072.3	-9.9	202.9	0.19	3.2	34.5	0.3	0.60	0.46	7.8	84.13	39.30	18.4			
02/04/68	131.20	2.06	28.68	26.37	124.00	123.31	0.69	1.55	21.5	5048.9	-23.4	202.4	0.03	0.5	5.4	0.1	0.90	0.62	10.5	84.15	39.18	18.4			
02/11/68	131.18	1.79	24.80	22.82	123.97	123.27	0.70	0.79	11.0	5040.1	-8.8	202.2	0.39	6.6	70.7	0.7	0.82	0.57	9.5	84.12	39.15	18.3			
02/18/68	131.14	1.53	21.19	19.49	123.94	123.18	0.76	0.49	6.9	5022.9	-17.2	201.9	0.01	0.2	1.8	0.0	1.01	0.70	11.7	84.00	39.18	18.3			
02/25/68	131.20	1.06	14.89	13.52	123.91	123.21	0.70	0.11	1.5	5029.3	6.4	202.0	1.01	17.0	183.1	1.8	0.66	0.46	7.7	83.82	39.40	18.3			
03/03/68	131.14	1.79	24.80	22.82	123.89	123.19	0.70	0.05	0.8	5025.2	-4.1	201.9	0.40	6.7	72.5	0.7	1.18	0.86	14.5	83.71	39.48	18.4			
03/10/68	131.22	1.06	14.89	13.52	123.91	123.21	0.70	0.05	0.8	5027.8	2.4	202.0	1.09	18.3	197.7	2.0	1.08	0.77	13.0	83.78	39.44	18.4			
03/17/68	131.29	2.06	28.68	26.37	123.97	123.22	0.75	0.05	0.8	5030.3	2.7	202.0	0.43	7.2	78.0	0.8	1.03	0.75	12.7	83.53	39.69	18.4			
03/24/68	131.18	3.00	41.65	38.32	123.89	123.20	0.69	0.15	2.0	5027.2	-3.1	202.0	0.00	0.0	0.0	0.0	1.70	1.24	20.9	83.56	39.65	18.5			
03/31/68	131.14	1.53	21.19	19.49	123.82	123.11	0.71	0.03	0.4	5007.4	-19.8	201.6	0.00	0.0	0.0	0.0	1.44	1.21	20.4	83.39	39.71	18.5			
04/07/68	131.10	1.06	14.89	13.52	123.77	123.01	0.76	0.00	0.0	4987.7	-18.7	201.2	0.26	4.4	47.1	0.5	1.39	1.17	18.6	83.34	39.67	18.5			
04/14/68	131.02	0.86	9.20	8.46	123.67	122.84	0.83	0.00	0.0	4953.2	-34.5	200.4	0.02	0.3	3.6	0.0	1.77	1.49	24.9	83.29	39.55	18.4			
04/21/68	130.96	0.09	1.31	1.20	123.53	122.61	0.92	0.00	0.0	4908.3	-44.9	199.5	0.00	0.0	0.0	0.0	1.98	1.66	27.8	82.90	39.71	18.3			
04/28/68	130.88	0.00	0.00	0.00	123.36	122.39	0.99	0.00	0.0	4863.3	-45.0	198.6	0.00	0.0	0.0	0.0	1.98	1.61	26.7	82.58	39.81	18.3			
05/05/68	130.82	0.00	0.00	0.00	123.28	122.18	1.10	0.00	0.0	4823.2	-40.1	197.7	0.53	8.8	98.1	1.0	2.33	1.91	31.6	82.59	39.60	18.2			
05/12/68	130.80	0.00	0.00	0.00	123.24	122.07	1.17	0.00	0.0	4800.4	-22.7	197.2	1.06	17.5	192.2	1.9	1.78	1.46	24.0	82.37	39.70	18.1			
05/19/68	130.80	0.00	0.00	0.00	123.24	121.91	1.33	0.00	0.0	4788.4	-32.0	196.5	0.83	13.8	150.5	1.5	2.18	1.77	29.1	82.16	39.75	18.1			
05/26/68	130.74	0.00	0.00	0.00	123.08	121.89	1.19	0.00	0.0	4768.2	-2.2	196.5	2.35	36.9	408.0	4.1	1.87	1.53	25.1	82.06	39.82	18.0			
06/02/68	130.78	0.00	0.00	0.00	123.20	121.85	1.35	0.00	0.0	4757.5	-8.8	196.3	2.01	32.9	364.5	3.6	1.95	1.66	27.1	82.22	39.63	18.1			
06/09/68	130.98	0.00	0.00	0.00	123.32	121.84	1.48	0.00	0.0	4755.4	-2.1	196.3	2.03	33.2	368.1	3.7	1.51	1.28	21.0	82.15	39.69	18.0			
06/16/68	131.02	0.00	0.00	0.00	123.33	121.70	1.63	0.00	0.0	4729.1	-26.4	195.7	1.00	16.4	181.3	1.8	1.91	1.62	26.6	82.16	39.52	18.0			
06/23/68	130.9																								

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 1070200 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -379366.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia		Change in Magnolia		Lake		Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap.		Magnolia Lake Evap.		Leakance = 3.29E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Volume at Start of Week ac-feet	Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Florida n Aquifer Elevation elev	Lake - Florida n Aquifer Elevation ft	Brooklyn Leakage ac-feet	
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																			
10/06/98	131.66	17.39	241.48	222.16	124.39	124.98	-0.57	14.19	197.0	5388.3	-13.7	209.3	0.00	0.0	0.0	1.41	1.07	18.7	83.40	41.56	20.1		
10/13/98	131.72	12.13	188.41	154.84	124.42	124.77	-0.35	13.26	184.1	5346.1	-39.2	206.5	1.30	22.7	235.7	2.4	1.13	0.86	15.0	83.53	41.24	20.1	
10/20/98	131.68	14.02	194.61	179.04	124.46	125.08	-0.63	10.91	151.5	5413.6	64.5	209.8	3.49	60.7	632.9	6.3	0.77	0.59	10.2	83.71	41.37	19.9	
10/27/98	131.84	23.33	323.94	298.03	124.49	125.36	-0.87	15.03	208.6	5472.0	56.5	211.0	0.18	3.1	32.6	0.3	1.08	0.82	14.4	83.72	41.64	20.0	
11/03/98	131.75	18.10	251.31	231.20	124.52	124.98	-0.46	19.99	277.6	5393.3	-78.8	209.4	0.00	0.0	0.0	0.97	0.69	12.1	83.80	41.19	20.3		
11/10/98	131.71	15.00	208.26	191.60	124.49	125.02	-0.54	13.59	188.7	5401.8	8.6	209.6	1.92	33.5	348.2	3.5	0.92	0.85	11.4	83.80	41.23	19.9	
11/17/98	131.67	13.69	190.14	174.93	124.46	124.84	-0.38	14.18	198.9	5362.2	-39.6	208.8	0.59	10.3	107.0	1.1	0.73	0.52	9.1	83.68	41.17	19.9	
11/24/98	131.83	12.44	172.67	158.86	124.43	124.70	-0.28	11.65	161.8	5334.8	-27.4	208.3	0.24	4.2	43.5	0.4	0.75	0.53	9.3	83.65	41.08	19.8	
12/01/98	131.59	11.23	155.88	143.41	124.39	124.57	-0.17	10.17	141.1	5308.0	-28.8	207.7	0.00	0.0	0.0	0.79	0.66	11.4	83.53	41.04	19.7		
12/08/98	131.56	10.07	139.80	126.61	124.36	124.45	-0.09	8.80	122.2	5283.1	-22.9	207.2	0.21	3.6	36.1	0.4	0.65	0.79	13.6	83.40	41.05	19.7	
12/15/98	131.50	8.23	128.21	117.95	124.33	124.37	-0.04	7.85	106.0	5265.6	-17.5	206.9	0.17	2.9	30.8	0.3	0.70	0.56	10.0	83.51	40.86	19.6	
12/22/98	131.42	7.68	108.30	97.80	124.29	124.21	0.08	7.19	89.8	5233.5	-32.1	206.2	0.00	0.0	0.0	0.74	0.61	10.6	83.46	40.78	19.5		
12/29/98	131.46	5.75	79.84	73.45	124.25	124.09	0.16	6.10	64.6	5207.9	-25.5	205.7	0.74	12.7	134.2	1.3	0.68	0.52	9.0	83.31	40.78	19.4	
01/05/99	131.42	6.67	92.67	85.25	124.21	124.10	0.11	5.32	73.8	5210.1	2.2	205.7	0.91	15.8	165.0	1.7	0.54	0.42	7.1	83.29	40.81	19.4	
01/12/99	131.40	5.75	79.84	73.45	124.18	124.00	0.17	5.38	74.7	5189.6	-20.6	205.3	0.43	7.4	78.0	0.8	0.61	0.47	8.1	83.41	40.59	19.4	
01/19/99	131.40	5.31	73.74	67.84	124.14	123.87	0.28	4.79	66.5	5163.6	-25.9	204.8	0.03	0.5	5.4	0.1	0.65	0.50	8.6	83.36	40.52	19.2	
01/26/99	131.36	5.31	73.74	67.84	124.10	123.81	0.29	4.08	58.7	5150.8	-12.8	204.5	0.14	2.4	25.4	0.3	0.57	0.44	7.5	83.14	40.67	19.2	
02/02/99	131.36	4.69	67.85	62.42	124.06	123.72	0.33	3.74	51.9	5132.9	-17.9	204.2	0.00	0.0	0.0	0.78	0.54	9.2	83.00	40.73	19.2		
02/09/99	131.40	4.48	62.17	57.19	124.02	123.81	0.21	3.26	45.3	5150.6	17.9	204.5	1.84	31.3	333.7	3.3	0.61	0.56	9.5	83.07	40.74	19.2	
02/16/99	131.56	5.31	73.74	67.84	124.07	123.96	0.09	3.74	51.9	5184.3	33.5	205.2	2.43	41.4	440.6	4.4	0.77	0.53	9.1	83.27	40.71	19.2	
02/23/99	131.52	8.23	128.21	117.95	124.12	124.13	-0.01	4.84	64.5	5218.8	32.3	205.9	0.32	5.5	56.0	0.6	0.67	0.46	7.9	83.13	41.01	19.3	
03/02/99	131.48	8.17	113.41	104.34	124.17	124.11	0.06	5.57	77.4	5212.3	-4.2	205.8	0.01	0.2	1.8	0.0	0.95	0.69	11.9	83.15	40.96	19.5	
03/09/99	131.52	7.18	99.38	91.43	124.22	124.18	0.04	5.45	75.6	5225.6	13.3	206.0	1.42	24.4	257.5	2.6	0.80	0.58	10.0	83.20	40.98	19.5	
03/16/99	131.56	8.17	113.41	104.34	124.27	124.27	0.00	5.85	81.2	5244.4	18.8	206.4	1.46	25.1	284.7	2.6	1.00	0.73	12.5	83.08	41.19	19.5	
03/23/99	131.64	8.23	128.21	117.95	124.32	124.37	-0.05	6.45	89.6	5264.7	20.3	206.8	1.21	20.6	219.4	2.2	0.91	0.66	11.4	83.48	40.86	19.6	
03/30/99	131.68	11.53	160.02	147.22	124.31	124.52	-0.21	7.18	99.4	5296.9	32.2	207.5	1.32	22.8	239.4	2.4	1.47	1.23	21.3	83.40	41.12	19.5	
04/06/99	131.80	12.75	176.98	162.82	124.30	124.53	-0.23	8.41	116.6	5299.7	2.8	207.5	0.00	0.0	0.0	1.62	1.36	23.5	83.41	41.12	19.7		
04/13/99	131.82	10.35	143.75	132.25	124.20	124.36	-0.19	8.53	118.5	5289.1	-30.6	206.9	0.00	0.0	0.0	1.70	1.43	24.7	83.33	41.06	19.7		
04/20/99	131.48	8.17	113.41	104.34	124.18	124.29	-0.11	7.32	101.8	5248.1	-19.9	206.5	0.91	15.7	165.0	1.7	1.41	1.18	20.4	83.28	41.01	19.6	
04/27/99	131.40	7.18	99.38	91.43	124.04	124.07	-0.03	6.61	91.8	5203.1	-48.0	205.6	0.00	0.0	0.0	1.85	1.52	28.1	83.18	40.89	19.6		
05/04/99	131.82	5.31	73.74	67.84	124.18	123.92	0.26	5.18	71.9	5172.8	-30.6	205.0	0.67	11.5	121.5	1.2	1.41	1.16	19.8	82.95	40.96	19.4	
05/11/99	131.82	10.93	151.80	139.65	124.18	124.06	0.10	4.32	60.0	5206.0	33.5	205.7	0.00	0.0	0.0	1.91	1.57	26.8	82.73	41.35	19.4		
05/18/99	131.84	8.17	113.41	104.34	124.20	124.20	0.00	5.26	73.1	5229.5	23.5	206.1	1.81	31.0	328.2	3.3	1.60	1.31	22.5	82.68	41.82	19.6	
05/25/99	131.58	8.69	120.72	111.06	124.32	124.16	0.14	5.97	82.9	5228.3	-3.2	206.1	0.47	8.1	85.2	0.9	1.46	1.20	20.6	82.56	41.82	19.8	
06/01/99	131.52	9.79	135.89	125.02	124.22	124.16	0.04	5.87	81.5	5225.8	-0.4	206.1	0.02	0.3	3.6	0.0	1.68	1.43	24.5	82.55	41.83	19.8	
06/08/99	131.46	8.17	113.41	104.34	124.20	124.19	0.01	5.86	81.3	5229.3	3.5	206.1	1.55	26.6	281.1	2.8	2.00	1.70	29.2	82.45	41.74	19.8	
06/15/99	131.42	6.67	92.67	85.25	124.12	124.06	0.06	5.96	82.8	5201.7	-27.6	205.6	0.74	12.7	134.2	1.3	1.66	1.41	24.2	82.43	41.63	19.9	
06/22/99	131.44	5.75	79.84	73.45	124.12	123.89	0.23	5.14	71.3	5168.4	-35.3	204.8	0.46	7.6	83.4	0.8	1.81	1.54	26.4	82.25	41.63	19.8	
06/29/99	131.40	8.20	86.15	79.26	124.10	123.74	0.36	4.16	57.7	5136.3	-30.1	204.2	0.02	0.3	3.8	0.0	2.08	1.89	32.3	81.97	41.77	19.7	
07/06/99	131.32	5.31	73.74	67.84	124.02	123.63	0.39	3.35	46.5	5112.7	-23.6	203.7	0.28	4.8	50.8	0.5	1.97	1.79	30.5	81.87	41.76	19.7	
07/13/99	131.22	3.71	51.46	47.35	124.00	123.59	0.41	2.71	37.7	5105.3	-7.4	203.6	1.51	25.6	273.8	2.7	1.67	1.52	25.8	81.81	41.77	19.6	
07/20/99	131.20	2.06	26.66	26.37	124.00	123.60	0.40	2.51	34.8	5107.1	1.8	203.6	2.89	49.0	524.1	5.2	1.58	1.44	24.4	81.79	41.81	19.6	
07/27/99	131.30	1.79	24.80	22.82	124.10	123.43	0.67	2.56	35.5	5072.5	-34.6	202.9	1.12	19.0	203.1	2.0	1.51	1.37	23.3	81.91	41.51	19.7	
08/03/99	131.52	3.35	46.45	42.73	124.20	123.48	0.72	1.55	21.5	5082.7	10.3	203.1	1.58	26.7	286.5	2.9	1.37	1.25	21.1	81.99	41.48	19.4	
08/10/99	131.54	8.17	113.41	104.34	124.44	123.99	0.45	1.86	25.8	5188.9	104.1	205.3	3.39	57.4	614.7	6.1	1.20	1.09	18.5	82.08	41.91	19.5	
08/17/99	131.58	8.69	120.72	111.06	124.40	124.15	0.25	4.72	65.5	5219.3	32.5	205.9	1.36	23.3	246.6	2.5	1.22	1.11	19.0	82.12	42.03	19.9	
08/24/99	131.68	9.23	129.21	117.95	124.54	124.30	0.24	5.86	78.5	5251.2	31.9	206.6	1.70	29.2	308.3	3.1	1.27	1.16	19.8	82.43	41.87	20.0	
08/31/99	131.58	12.75	176.98	162.82	124.44	124.57	-0.13	6.88	92.8	5308.1	54.9	207.7	1.20	20.7	217.6	2.2	1.23	1.05	18.0	82.52	42.04	20.0	
09/07/99	131.62	9.79	135.89	125.02	124.45	124.62	-0.17	6.61	122.3	5317.4	11.3	207.9	2.51	43.4	465.1	4.6	1.31	1.11	19.3	82.68	41.94	20.2	
09/14/99	131.52	10.93	151.80	139.65	124.42	124.54	-0.12	9.32	129.4	5300.0	-17.9	207.6	0.71	13.3	128.7	1.3	1.43	1.22	21.1	82.64	41.90	20.1	
09/21/99	131.54	8.17	113.41	104.34	124.40	124.47	-0.07	8.55	116.7	5285.6	-14.5	207.3	1.85	32.0	335.5	3.4	1.05						

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241993.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -3793986.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia		Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area	Etonia Precip. in/week	Lake Surface		Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.298E-04 1/day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Volume at Start of Week ac-feet				Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Magnolia Lake Evap. in/week				Magnolia Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																				
01/04/70	131.82	22.56	313.17	268.12	125.00	125.36	-0.38	18.73	280.1	5477.3	18.7	211.1	0.89	15.8	181.4	1.8	0.49	0.38	6.6	84.23	41.15	20.0		
01/11/70	132.08	21.03	292.02	268.65	125.18	125.39	-0.21	20.50	284.7	5479.2	2.0	211.1	2.33	41.0	422.5	4.2	0.53	0.41	7.2	84.40	40.99	20.1		
01/18/70	132.16	27.34	379.58	349.18	125.20	125.63	-0.43	20.70	287.4	5529.8	50.5	212.1	0.65	11.4	117.9	1.2	0.29	0.22	3.9	84.71	40.92	20.0		
01/25/70	132.10	30.68	426.00	391.92	125.18	125.84	-0.66	28.29	365.0	5530.8	0.8	212.2	0.10	1.8	18.1	0.2	0.58	0.45	8.0	84.74	40.89	20.0		
02/01/70	132.06	28.16	391.01	359.73	125.10	125.50	-0.40	28.39	368.4	5502.2	-28.4	211.8	0.35	6.2	63.5	0.8	0.70	0.48	8.5	84.89	40.81	20.0		
02/08/70	132.88	28.52	398.21	338.75	125.70	128.05	-0.35	23.09	320.7	5618.1	115.9	213.9	8.47	114.1	1173.2	11.7	0.86	0.46	8.0	85.59	40.45	19.9		
02/15/70	132.52	54.48	756.18	695.69	125.62	128.62	-1.00	39.10	542.9	5741.3	123.2	216.3	0.02	0.4	3.6	0.0	0.81	0.56	10.0	85.61	41.01	20.0		
02/22/70	132.52	46.89	650.97	596.99	125.68	128.46	-0.78	45.00	624.8	5707.1	-34.3	215.8	1.13	20.4	204.9	2.0	0.83	0.57	10.3	85.74	40.72	20.5		
03/01/70	132.44	46.89	650.97	596.99	125.54	128.22	-0.68	45.00	624.8	5656.1	-51.0	214.6	0.30	5.4	54.4	0.5	0.82	0.60	10.8	85.96	40.28	20.3		
03/08/70	132.42	43.16	599.22	551.29	125.50	125.98	-0.38	45.00	624.8	5583.7	-72.4	213.2	1.64	29.3	297.4	3.0	0.86	0.63	11.2	86.10	39.79	19.9		
03/15/70	132.34	42.24	596.41	539.50	125.40	128.12	-0.72	33.61	463.6	5633.6	49.9	214.2	0.67	11.2	114.2	1.1	1.21	0.88	15.7	86.03	40.08	19.8		
03/22/70	132.28	38.59	535.75	462.89	125.28	125.56	-0.28	41.78	580.1	5513.9	-119.7	211.8	0.08	1.1	10.9	0.1	1.08	0.77	13.8	86.14	39.42	19.8		
03/29/70	132.70	35.02	496.18	447.27	125.58	128.36	-0.78	24.40	338.8	5695.4	171.5	215.2	5.22	92.1	946.6	9.5	1.30	1.08	19.3	86.37	39.99	19.3		
04/05/70	132.68	55.42	789.43	707.88	125.70	128.77	-1.07	45.00	624.8	5773.9	88.5	216.9	2.19	39.3	397.1	4.0	1.19	1.00	17.9	86.78	40.01	19.9		
04/12/70	132.72	54.46	756.18	695.69	125.68	128.96	-1.28	45.00	624.8	5818.1	42.2	217.7	0.68	12.3	123.3	1.2	1.46	1.28	22.2	86.67	40.10	20.0		
04/19/70	132.48	58.37	782.70	720.88	125.52	127.19	-1.67	45.00	624.8	5886.1	50.0	218.7	0.00	0.0	0.0	0.0	1.65	1.39	25.1	87.06	40.13	20.2		
04/26/70	132.32	45.02	625.00	575.00	125.38	128.78	-1.40	45.00	624.8	5776.6	-89.4	217.0	0.11	2.0	19.9	0.2	1.44	1.18	21.5	86.99	39.79	20.3		
05/03/70	132.18	37.89	523.24	481.38	125.18	125.91	-0.73	45.00	624.8	5588.7	-188.1	213.3	0.00	0.0	0.0	0.0	1.87	1.37	24.8	86.79	39.12	19.9		
05/10/70	132.04	31.54	437.85	402.82	125.02	125.34	-0.32	34.36	477.1	5487.4	-121.3	210.9	0.05	0.9	9.1	0.1	1.97	1.62	28.7	86.56	38.77	19.3		
05/17/70	131.92	25.71	356.67	328.41	124.86	125.67	-0.81	18.55	271.4	5537.2	69.9	212.3	3.25	57.1	589.3	5.9	2.17	1.78	31.3	86.47	39.19	18.9		
05/24/70	131.84	21.03	292.02	268.65	124.70	124.98	-0.28	27.22	377.9	5393.1	-144.2	209.4	0.39	8.9	70.7	0.7	1.61	1.32	23.4	86.51	38.47	19.2		
05/31/70	132.12	18.10	251.31	231.20	125.10	125.30	-0.20	13.58	188.5	5480.8	87.5	210.8	3.24	58.5	587.5	5.9	1.28	1.09	19.0	86.43	38.88	18.8		
06/07/70	132.00	29.00	402.58	370.37	124.98	125.79	-0.81	18.91	262.8	5548.9	86.3	212.5	1.11	19.5	201.3	2.0	1.61	1.37	24.0	86.38	39.33	18.9		
06/14/70	131.88	24.12	334.83	308.05	124.90	125.10	-0.20	28.45	395.1	5418.4	-128.5	209.9	0.18	3.2	32.6	0.3	1.71	1.45	25.7	86.22	38.88	19.3		
06/21/70	131.80	19.55	271.39	249.87	124.84	125.12	-0.28	15.39	213.6	5422.2	3.9	210.0	0.61	10.7	110.6	1.1	1.69	1.44	25.1	86.10	39.03	19.8		
06/28/70	132.14	18.70	231.80	213.28	125.20	125.31	-0.11	15.68	217.7	5461.5	39.3	210.8	4.63	81.0	839.6	8.4	1.68	1.53	28.8	86.18	39.13	18.9		
07/05/70	131.98	29.83	414.24	361.10	125.10	125.73	-0.63	19.00	293.8	5551.5	90.0	212.8	0.90	15.8	163.2	1.6	1.61	1.47	25.7	86.29	39.44	19.0		
07/12/70	132.08	23.33	323.94	298.03	125.18	125.29	-0.13	29.08	403.4	5458.8	-82.8	210.7	2.80	49.6	507.7	5.1	1.41	1.26	22.7	86.28	39.04	19.4		
07/19/70	132.00	28.52	398.21	359.75	125.10	125.47	-0.37	18.74	280.2	5494.9	36.3	211.4	0.10	1.8	18.1	0.2	1.58	1.44	25.2	86.11	39.35	19.0		
07/26/70	131.98	24.12	334.83	308.05	125.08	125.54	-0.46	22.31	308.8	5508.6	14.7	211.7	2.93	51.8	531.3	5.3	1.33	1.21	21.3	86.07	39.47	19.2		
08/02/70	131.92	22.56	313.17	268.12	125.08	125.18	-0.10	23.92	332.1	5433.5	-78.1	210.2	0.63	11.1	114.2	1.1	1.56	1.42	25.0	86.02	39.15	19.3		
08/09/70	132.18	21.03	292.02	268.65	125.30	125.17	0.13	16.58	230.2	5433.0	-0.5	210.2	0.21	3.7	38.1	0.4	1.51	1.37	24.1	86.27	38.91	19.0		
08/16/70	132.30	31.54	437.85	402.82	125.50	126.45	-0.95	16.53	229.8	5705.0	272.0	215.6	6.52	114.2	1182.3	11.8	0.53	0.48	8.4	86.29	40.16	18.9		
08/23/70	132.30	38.79	510.81	469.04	125.58	125.67	-0.09	45.00	624.8	5537.4	-167.8	212.3	1.63	29.3	295.6	3.0	1.53	1.39	25.0	86.53	39.14	20.0		
08/30/70	132.22	38.79	510.81	469.04	125.52	126.14	-0.62	27.23	378.1	5636.1	101.6	214.3	2.44	43.2	442.5	4.4	1.23	1.05	18.5	86.50	39.84	19.2		
09/06/70	132.10	33.28	461.84	424.89	125.46	125.20	0.26	42.79	594.0	5437.8	-201.3	210.3	0.89	12.9	125.1	1.3	1.72	1.48	20.1	86.65	38.54	19.8		
09/13/70	132.08	28.16	391.01	359.73	125.44	125.62	-0.18	18.93	235.1	5527.9	90.0	212.1	0.14	2.5	25.4	0.3	1.25	1.06	18.6	86.72	38.90	18.7		
09/20/70	131.98	27.34	379.58	349.19	125.34	125.47	-0.13	28.08	361.8	5495.1	-32.8	211.5	1.02	18.0	185.0	1.8	1.40	1.19	21.0	86.72	38.74	19.0		
09/27/70	131.88	22.56	313.17	268.12	125.18	125.21	-0.03	22.33	310.0	5439.8	-85.3	210.4	0.02	0.4	3.6	0.0	1.11	0.84	14.9	86.64	38.56	18.9		
10/04/70	131.74	19.55	271.39	249.87	125.00	125.08	-0.08	17.10	237.4	5414.2	-25.6	209.8	0.00	0.0	0.0	0.0	1.44	1.09	19.2	86.45	38.83	18.7		
10/11/70	131.66	14.67	203.67	187.38	124.86	124.80	0.06	15.08	209.3	5354.8	-59.4	208.7	0.00	0.0	0.0	0.0	1.41	1.07	18.7	86.43	38.37	18.7		
10/18/70	131.58	12.13	168.41	154.94	124.88	124.82	0.06	11.23	155.9	5317.3	-37.6	207.9	0.00	0.0	0.0	0.0	1.37	1.04	18.1	86.28	38.34	18.5		
10/25/70	131.62	9.23	128.21	117.95	124.82	124.54	0.28	9.31	128.9	5300.1	-17.1	207.8	1.32	22.9	239.4	2.4	0.98	0.73	12.6	86.18	38.36	18.4		
11/01/70	131.68	10.93	151.80	139.65	124.80	124.58	0.24	8.55	118.7	5304.3	4.2	207.6	0.65	11.2	117.9	1.2	0.88	0.62	10.8	86.01	38.55	18.4		
11/08/70	131.94	12.73	178.99	162.82	124.70	124.82	0.08	8.73	121.2	5318.4	12.1	207.9	0.00	0.0	0.0	0.0	0.90	0.64	11.1	85.82	38.80	18.5		
11/15/70	131.50	8.89	120.72	111.08	124.88	124.40	0.28	9.27	128.7	5272.8	-43.8	207.0	0.12	2.1	21.8	0.2	0.78	0.55	9.6	85.68	38.72	18.6		
11/22/70	131.44	7.86	106.30	97.80	124.60	124.24	0.36	7.45	103.5	5236.5	-33.3	208.3	0.00	0.0	0.0	0.0	0.74	0.53	9.1	85.58	38.67	18.5		
11/29/70	131.36	6.20	88.15	79.28	124.52	124.07	0.45	6.29	67.3	5203.9	-35.6	205.8	0.03	0.5	5.4	0.1	0.68	0.56	9.7	85.30	38.77	18.4		
12/06/70	131.40	4.48	62.17	57.19	124.52	123.86	0.66	5.20	72.2	5180.2	-43.6	204.7	0.00	0.0	0.0	0.0	0.72	0.60	10.2	85.17	38.69	18.4		
12/13/70	131.36	5.31	73.74	67.84	124.48	123.78	0.68	3.99	55.4	5143.5	-16.8	204.4	0.00	0.0	0.0	0.0	0.77	0.64	10.9	85.11	38.67	18.3		
12/																								

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241863.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%				Hmin= 123.2 C1 = -379366.2 C2 = 91699.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week		Change in Magnolia Volume During Week	Magnolia Surface Area	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.28E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Volume at Start of Week ac-feet	Magnolia Volume at Start of Week ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev					Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet						
																								Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
04/04/71	131.82	10.35	143.75	132.25	124.60	124.21	0.39	5.45	75.7	5232.8	20.2	206.2	0.10	1.7	18.1	0.2	1.35	1.13	19.4	84.78	36.44	18.7				
04/11/71	131.82	8.17	113.41	104.34	124.58	124.33	0.25	6.08	84.4	5257.8	25.0	206.7	2.39	41.1	433.4	4.3	1.50	1.28	21.7	84.54	36.79	18.8				
04/18/71	131.50	8.17	113.41	104.34	124.50	124.17	0.33	6.91	95.9	5223.9	-33.9	206.0	0.00	0.0	0.0	0.0	1.61	1.35	23.3	84.55	36.82	19.0				
04/25/71	131.82	7.66	106.30	97.80	124.46	124.06	0.40	5.80	80.5	5201.9	-22.0	205.6	0.19	3.3	34.5	0.3	1.71	1.40	24.1	84.53	36.53	18.8				
05/02/71	131.48	8.17	113.41	104.34	124.48	124.07	0.41	5.14	71.4	5204.2	2.3	205.6	0.46	7.9	83.4	0.8	1.47	1.21	20.6	84.44	36.64	18.8				
05/09/71	131.42	7.18	99.38	91.43	124.30	123.99	0.31	5.21	72.3	5187.2	-17.0	205.3	0.43	7.4	78.0	0.8	1.81	1.48	25.4	84.18	36.81	18.8				
05/16/71	131.40	5.75	79.84	73.45	124.38	123.94	0.44	4.73	65.6	5177.5	-9.7	205.1	1.18	19.8	210.3	2.1	1.47	1.21	20.6	84.14	36.80	18.9				
05/23/71	131.32	5.31	73.74	67.84	124.28	123.75	0.53	4.46	61.9	5137.8	-39.7	204.3	0.02	0.3	3.6	0.0	1.94	1.59	27.2	83.85	36.90	18.8				
05/30/71	131.36	3.71	51.46	47.35	124.30	123.72	0.58	3.39	47.1	5132.4	-5.4	204.1	2.09	35.6	379.0	3.8	1.81	1.54	28.2	83.71	40.01	18.8				
06/06/71	131.38	4.89	67.85	62.42	124.18	123.60	0.58	3.25	45.1	5108.3	-24.1	203.7	0.20	3.4	36.3	0.4	1.82	1.55	28.3	83.45	40.16	18.9				
06/13/71	131.42	4.89	67.85	62.42	124.20	123.57	0.63	2.59	36.0	5101.0	-7.3	203.5	0.36	6.1	65.3	0.7	1.50	1.28	21.6	83.42	40.15	18.9				
06/20/71	131.44	5.75	79.84	73.45	124.28	123.69	0.60	2.39	33.1	5123.9	22.9	204.0	1.45	24.6	262.9	2.6	1.79	1.52	25.8	83.36	40.32	18.9				
06/27/71	131.46	6.20	86.15	79.26	124.24	123.78	0.46	3.02	41.9	5144.1	20.2	204.4	1.46	24.8	284.7	2.8	1.88	1.51	25.7	83.18	40.60	19.0				
07/04/71	131.32	8.67	92.67	85.25	124.20	123.82	0.38	3.56	49.4	5152.6	8.5	204.6	0.87	11.4	121.5	1.2	1.34	1.22	20.8	83.20	40.62	19.2				
07/11/71	131.40	3.71	51.46	47.35	124.38	123.75	0.61	3.79	52.6	5137.8	-15.0	204.3	1.83	31.2	331.8	3.3	1.62	1.47	25.1	83.20	40.55	19.2				
07/18/71	131.42	5.31	73.74	67.84	124.42	123.72	0.70	3.39	47.0	5131.7	-5.9	204.1	1.01	17.2	183.1	1.0	1.72	1.57	28.6	83.17	40.55	19.1				
07/25/71	131.46	5.75	79.84	73.45	124.40	123.79	0.61	3.23	44.8	5146.8	15.1	204.4	1.25	21.3	228.7	2.3	1.16	1.06	18.0	83.22	40.57	19.1				
08/01/71	131.48	6.67	92.67	85.25	124.46	124.02	0.44	3.63	50.4	5194.2	47.4	205.4	2.89	49.2	524.1	5.2	1.47	1.34	22.8	83.13	40.90	19.1				
08/08/71	131.42	7.18	99.38	91.43	124.40	124.08	0.32	4.62	68.3	5204.7	10.6	205.6	1.67	26.6	302.8	3.0	1.59	1.45	24.8	83.07	41.00	19.4				
08/15/71	131.60	5.75	79.84	73.45	124.60	124.17	0.43	5.22	72.5	5225.2	20.4	208.0	3.02	51.7	547.6	5.5	1.17	1.08	18.2	83.17	41.00	19.5				
08/22/71	131.82	10.35	143.75	132.25	124.84	124.58	0.26	5.84	81.0	5306.4	83.2	207.7	3.80	65.2	699.1	6.9	1.32	1.20	20.6	83.23	41.34	19.5				
08/29/71	131.72	17.39	241.48	222.16	124.88	125.01	-0.15	8.91	123.7	5398.7	80.3	209.5	1.52	28.3	275.6	2.8	1.18	1.00	17.4	83.33	41.68	19.8				
09/05/71	131.74	14.02	194.61	179.04	124.84	124.88	-0.02	13.96	193.9	5367.9	-30.8	208.9	1.25	21.8	228.7	2.3	1.34	1.14	19.9	83.31	41.55	20.2				
09/12/71	131.66	14.67	203.67	187.38	125.12	124.96	0.16	11.99	166.4	5388.4	20.5	209.3	1.98	34.5	356.0	3.6	1.25	1.08	18.5	83.52	41.44	20.0				
09/19/71	131.82	22.56	313.17	288.12	125.22	125.28	-0.06	13.27	184.2	5454.7	66.3	210.7	0.09	1.6	16.3	0.2	1.30	1.11	19.3	83.56	41.69	20.0				
09/26/71	131.88	21.05	292.02	266.65	125.05	125.20	-0.12	16.39	255.3	5438.2	-16.5	210.3	0.44	7.7	79.8	0.6	1.38	1.03	18.1	83.57	41.82	20.3				
10/03/71	131.68	18.82	261.28	240.37	124.88	125.04	-0.18	16.98	235.5	5404.4	-33.9	209.6	0.00	0.0	0.0	0.0	1.39	1.08	18.5	83.26	41.78	20.2				
10/10/71	131.82	12.75	178.98	162.82	124.88	124.88	0.02	14.38	199.4	5366.8	-37.6	208.9	1.89	33.0	342.7	3.4	1.30	0.99	17.3	83.56	41.30	20.2				
10/17/71	131.82	10.93	151.80	139.85	124.96	124.71	0.25	11.92	165.5	5336.8	-30.0	208.3	1.32	23.0	239.4	2.4	0.73	0.56	9.7	83.51	41.20	19.9				
10/24/71	131.78	17.39	241.48	222.16	124.96	125.00	-0.04	10.26	142.5	5397.7	61.0	209.5	0.74	12.8	134.2	1.4	0.99	0.75	13.1	83.58	41.42	19.8				
10/31/71	131.80	16.01	222.27	204.49	124.88	124.97	-0.09	13.90	192.9	5369.8	-7.9	209.4	0.51	8.9	92.5	0.9	0.75	0.53	9.3	83.51	41.46	20.0				
11/07/71	131.70	16.70	231.60	213.28	124.88	124.98	-0.08	13.36	185.5	5388.4	-1.3	209.3	0.32	5.6	58.0	0.6	1.23	0.87	15.2	83.45	41.51	20.0				
11/14/71	131.56	13.36	185.71	170.96	124.80	124.78	0.04	13.27	184.3	5346.7	-41.8	208.5	0.09	1.6	16.3	0.2	0.81	0.58	10.0	83.36	41.41	20.1				
11/21/71	131.52	9.79	136.89	125.02	124.72	124.51	0.21	10.78	149.7	5293.9	-52.8	207.4	0.12	2.1	21.8	0.2	0.85	0.60	10.5	83.42	41.09	19.9				
11/28/71	131.44	8.17	113.41	104.34	124.64	124.33	0.31	8.29	115.1	5256.6	-37.3	208.7	0.06	1.0	10.9	0.1	0.56	0.46	8.0	83.36	40.97	19.7				
12/05/71	131.72	6.20	86.15	79.26	124.95	124.47	0.48	6.67	95.4	5286.5	29.9	207.3	3.99	68.7	723.5	7.2	0.73	0.61	10.4	83.39	41.09	19.5				
12/12/71	131.78	14.02	194.61	179.04	124.98	124.89	0.30	7.99	110.9	5330.9	44.4	208.2	0.08	1.4	14.5	0.1	0.39	0.32	5.6	83.54	41.15	19.7				
12/19/71	131.68	16.01	222.27	204.49	124.92	124.85	0.07	9.97	138.4	5385.9	35.0	208.9	0.02	0.3	3.6	0.0	0.81	0.67	11.7	83.55	41.31	19.8				
12/26/71	131.78	12.75	178.98	162.82	125.04	124.77	0.27	11.87	164.8	5349.1	-18.8	208.5	0.84	11.1	118.1	1.2	0.54	0.42	7.2	83.80	41.17	19.9				
01/02/72	131.78	15.33	212.89	195.86	124.92	124.86	0.06	10.92	151.6	5366.4	19.3	208.9	0.23	4.0	41.7	0.4	0.72	0.55	9.6	83.62	41.05	19.8				
01/09/72	131.68	15.33	212.89	195.86	124.88	124.82	-0.04	12.01	166.8	5380.9	12.5	209.2	0.80	10.4	108.8	1.1	0.62	0.48	8.3	83.69	41.04	19.8				
01/16/72	131.71	12.75	178.98	162.82	124.86	124.89	-0.02	12.78	177.5	5370.9	-10.0	209.0	1.73	30.2	313.7	3.1	0.86	0.51	8.9	83.91	40.98	19.8				
01/23/72	131.75	13.99	190.14	174.93	124.90	124.91	-0.01	12.16	168.8	5377.2	8.4	209.1	1.46	25.4	264.7	2.6	0.60	0.48	8.0	84.03	40.88	19.8				
01/30/72	131.78	15.00	206.28	191.60	124.90	124.94	-0.04	12.55	174.3	5383.4	8.2	209.2	0.88	15.3	159.6	1.8	0.89	0.48	8.3	84.20	40.73	19.7				
02/06/72	131.82	16.01	222.27	204.49	124.92	125.04	-0.12	12.95	179.7	5404.2	20.7	209.6	1.20	20.9	217.6	2.2	0.62	0.43	7.5	84.10	40.83	19.7				
02/13/72	131.86	17.39	241.48	222.16	124.92	125.08	-0.16	14.94	199.2	5414.3	10.2	209.8	0.78	13.9	141.4	1.4	0.67	0.46	8.1	84.50	40.59	19.8				
02/20/72	131.88	16.82	261.28	240.37	124.92	125.21	-0.29	15.08	209.4	5439.8	25.5	210.4	1.35	23.6	244.8	2.4	0.96	0.68	11.8	84.45	40.75	19.7				
02/27/72	131.82	16.55	271.39	249.67	124.84	125.11	-0.17	17.10	237.4	5420.3	-19.5	210.0	0.06	1.1	10.9	0.1	1.03	0.75	13.2	84.59	40.52	19.8				
03/05/72	131.90	17.39	241.48	222.16	125.03	125.16	-0.13	15.53	215.7	5430.5	10.2	210.2	2.07	36.2	375.4	3.8	1.30	0.95	18.6	84.64	40.52	19.6				
03/12/72	131.82	20.28	261.83	259.10	125.00	125.14	-0.14	16.33	228.8	5428.0	-4.5	210.1	0.00	0.0	0.0	0.0	1.34	0.98	17.1	84.54	40.60	19.7				
03/19/72	131.78	17.39	241.48	222.16	124.82	124.88</																				

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241869.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -378366.2 C2 = 91839.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.298E-04 1/day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Magnolia Acqifer Elevation elev	Floridan Acqifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																		
07/02/72	132.20	36.02	486.18	447.27	125.44	125.53	-0.09	35.32	480.4	5508.8	-86.0	211.7	0.28	5.0	50.8	0.5	1.75	1.59	26.3	85.47	40.07	20.0
07/09/72	132.12	32.40	448.80	413.82	125.38	125.74	-0.36	23.83	330.9	5553.3	44.4	212.6	0.72	12.7	130.6	1.3	2.05	1.87	32.9	85.52	40.22	19.6
07/16/72	132.08	29.00	402.58	370.37	125.24	125.37	-0.13	29.30	408.8	5474.6	-78.7	211.0	0.21	3.7	36.1	0.4	1.65	1.50	28.6	85.49	39.88	19.7
07/23/72	131.82	27.34	379.58	348.19	125.20	125.51	-0.31	20.24	281.0	5503.3	28.7	211.8	0.28	4.9	50.8	0.5	1.59	1.45	25.4	85.49	40.02	19.4
07/30/72	131.82	21.03	292.02	268.65	125.08	125.19	-0.13	23.22	322.3	5436.4	-68.9	210.3	1.83	32.3	331.8	3.3	1.82	1.86	29.2	85.23	39.98	19.6
08/06/72	131.92	17.39	241.48	222.16	125.00	125.08	-0.08	18.82	233.5	5413.8	-22.6	209.8	1.78	31.2	322.8	3.2	1.85	1.50	28.3	85.05	40.03	19.4
08/13/72	131.92	21.03	292.02	268.65	125.04	125.19	-0.15	15.05	208.9	5436.1	22.3	210.3	0.12	2.1	21.8	0.2	1.28	1.16	20.4	84.86	40.33	19.4
08/20/72	131.72	21.03	292.02	268.65	125.10	125.15	-0.05	16.79	233.0	5428.0	-8.1	210.1	0.15	2.6	27.2	0.3	1.69	1.54	26.9	84.95	40.20	19.6
08/27/72	132.37	14.02	194.81	179.04	125.74	125.68	0.06	16.14	224.1	5539.1	111.1	212.3	10.02	175.5	1817.0	18.2	1.21	1.03	18.0	85.17	39.97	19.5
09/03/72	132.32	39.95	554.83	510.26	125.60	126.18	-0.58	27.46	381.2	5046.6	107.7	214.4	1.05	18.6	190.4	1.9	1.48	1.26	22.3	85.92	40.28	19.6
09/10/72	132.18	37.89	523.24	481.36	125.69	125.38	0.31	44.20	613.7	5477.1	-169.7	211.1	0.16	2.9	29.0	0.3	1.38	1.18	20.7	85.88	39.50	19.9
09/17/72	132.08	31.54	437.85	402.82	125.84	125.74	-0.10	20.49	284.4	5553.4	78.3	212.6	0.02	0.4	3.6	0.0	1.55	1.32	23.2	85.93	39.61	19.3
09/24/72	132.00	27.75	385.27	354.45	125.38	125.32	0.04	29.32	407.1	5463.7	-69.6	210.8	0.17	3.0	30.8	0.3	1.55	1.18	20.9	85.93	39.49	19.5
10/01/72	131.82	24.12	334.83	308.05	125.08	125.41	-0.35	19.20	268.6	5482.7	19.0	212.2	0.78	13.4	137.8	1.4	1.34	1.02	17.9	85.93	39.47	19.2
10/08/72	131.80	21.03	292.02	268.65	124.88	125.18	-0.30	21.05	292.2	5429.3	-53.5	210.1	0.32	5.8	58.0	0.6	1.28	0.96	18.9	85.84	39.32	19.2
10/15/72	131.72	16.70	231.80	213.28	124.80	124.94	-0.14	16.23	225.4	5384.0	-45.2	209.2	0.04	0.7	7.3	0.1	1.11	0.84	14.8	85.57	39.37	19.1
10/22/72	131.84	14.02	194.81	179.04	124.88	124.77	0.11	12.98	180.3	5349.3	-34.7	208.5	0.00	0.0	0.0	0.0	1.09	0.83	14.4	85.44	39.33	19.0
10/29/72	131.82	11.53	160.02	147.22	124.74	124.88	0.08	10.83	151.7	5325.3	-24.1	208.1	0.83	10.9	114.2	1.1	1.03	0.73	12.7	85.28	39.40	18.9
11/05/72	131.80	10.83	151.80	139.65	124.82	124.55	0.27	8.89	134.6	5303.0	-22.2	207.6	0.16	2.8	29.0	0.3	0.93	0.68	11.4	85.38	39.17	18.8
11/12/72	131.72	10.35	143.75	132.25	124.82	124.88	0.04	8.88	120.5	5329.8	28.5	208.2	2.21	38.2	400.7	4.0	0.71	0.50	8.7	85.45	39.23	18.9
11/19/72	131.70	14.02	194.81	179.04	124.82	124.89	0.03	9.90	137.5	5374.0	44.4	209.0	1.83	28.3	295.8	3.0	0.77	0.55	9.5	85.43	39.48	18.9
11/26/72	131.82	13.38	185.71	170.86	125.02	124.94	0.08	12.35	171.5	5385.1	11.0	209.3	2.05	35.7	371.7	3.7	0.60	0.50	8.7	85.58	39.37	19.0
12/03/72	131.88	17.39	241.48	222.16	125.10	125.15	-0.05	13.05	181.2	5427.3	42.2	210.1	1.38	23.0	248.8	2.5	0.41	0.34	5.9	85.44	39.71	19.0
12/10/72	131.84	19.55	271.39	249.07	125.10	125.15	-0.05	16.07	223.2	5428.3	1.1	210.1	0.02	0.4	3.6	0.0	0.45	0.37	6.5	85.36	39.77	19.3
12/17/72	131.82	18.10	251.31	231.20	125.06	125.12	-0.06	18.18	224.4	5422.1	-8.3	210.0	1.02	17.9	185.0	1.8	0.89	0.77	13.5	85.47	39.65	19.3
12/24/72	132.02	21.03	292.02	268.65	125.10	125.50	-0.40	15.67	217.8	5501.7	79.6	211.6	2.78	48.7	504.1	5.0	0.44	0.34	5.9	85.50	40.00	19.2
12/31/72	131.82	24.91	345.84	318.17	125.10	125.38	-0.28	23.04	319.9	5478.0	-25.7	211.1	0.19	3.4	34.5	0.3	0.60	0.48	8.1	85.56	39.82	19.5
01/07/73	131.82	21.03	292.02	268.65	125.08	125.19	-0.11	20.38	282.9	5438.9	-39.1	210.3	0.12	2.1	21.8	0.2	0.57	0.44	7.7	85.53	39.68	19.4
01/14/73	131.90	21.03	292.02	268.65	125.08	125.35	-0.27	16.88	234.0	5479.9	34.0	211.0	1.22	21.4	221.2	2.2	0.37	0.28	5.0	85.53	39.82	19.3
01/21/73	131.82	20.28	281.83	259.10	125.12	125.13	-0.01	19.88	278.1	5424.4	-48.5	210.0	0.00	0.0	0.0	0.0	0.75	0.58	10.2	85.56	39.57	19.4
01/28/73	131.87	21.03	292.02	268.65	125.16	125.49	-0.33	15.85	220.1	5500.2	75.8	211.6	2.82	49.4	511.4	5.1	0.67	0.48	8.1	85.58	39.92	19.2
02/04/73	132.02	22.94	318.54	293.08	125.22	125.39	-0.17	22.87	317.6	5478.1	-22.1	211.1	1.59	28.7	288.3	2.9	0.74	0.51	9.0	85.75	39.64	19.5
02/11/73	132.02	24.91	345.84	318.17	125.18	125.56	-0.38	20.58	285.7	5514.3	38.2	211.8	1.83	28.7	295.6	3.0	0.70	0.48	8.5	86.10	39.46	19.3
02/18/73	131.87	24.91	345.84	318.17	125.18	125.41	-0.23	24.45	339.5	5482.4	-31.9	211.2	1.06	18.5	192.2	1.9	0.98	0.68	11.9	85.98	39.43	19.3
02/25/73	131.82	22.94	318.54	293.08	125.18	125.27	-0.09	21.01	291.7	5453.8	-28.6	210.6	0.03	0.5	5.4	0.1	0.88	0.84	11.3	85.86	39.41	19.2
03/04/73	131.87	21.03	292.02	268.65	125.08	125.18	-0.12	18.30	254.1	5435.5	-18.3	210.3	0.02	0.4	3.6	0.0	1.10	0.80	14.1	85.75	39.43	19.2
03/11/73	132.02	19.18	286.31	245.01	125.10	125.29	-0.19	16.74	232.4	5457.7	22.3	210.7	2.09	38.8	379.0	3.8	0.91	0.68	11.8	85.88	39.41	19.1
03/18/73	131.92	24.91	345.84	318.17	125.04	125.40	-0.36	18.88	259.0	5479.9	22.2	211.2	0.12	2.1	21.8	0.2	1.57	1.15	20.1	85.93	39.48	19.2
03/25/73	131.82	21.03	292.02	268.65	125.16	125.33	-0.17	20.77	288.3	5488.4	-13.5	210.9	2.38	41.9	431.6	4.3	1.41	1.18	20.8	86.07	39.28	19.2
04/01/73	132.12	21.03	292.02	268.65	125.34	125.42	-0.08	19.45	270.1	5485.9	19.5	211.3	2.85	50.1	516.8	5.2	1.03	0.87	15.2	86.48	39.84	19.1
04/08/73	132.38	29.00	402.58	370.37	125.54	125.94	-0.40	21.37	298.7	5585.3	109.5	213.4	3.97	69.9	719.9	7.2	1.51	1.27	22.3	86.59	39.35	19.0
04/15/73	132.22	39.49	548.32	504.45	125.41	125.80	-0.39	35.40	461.5	5585.3	-30.0	212.8	0.00	0.0	0.0	0.0	1.58	1.33	23.6	86.56	39.24	19.4
04/22/73	132.12	33.28	461.84	424.89	125.27	125.57	-0.30	30.95	429.8	5515.9	-49.5	211.9	0.00	0.0	0.0	0.0	1.74	1.43	25.3	86.82	39.65	19.3
04/29/73	132.00	29.00	402.58	370.37	125.10	125.54	-0.44	24.84	342.1	5509.5	-8.3	211.7	0.47	8.3	85.2	0.9	1.71	1.40	24.8	86.56	39.67	19.1
05/06/73	131.87	24.12	334.83	308.05	125.00	125.21	-0.21	23.91	332.0	5441.8	-67.7	210.4	0.00	0.0	0.0	0.0	1.71	1.40	24.7	86.54	39.88	19.1
05/13/73	131.90	19.18	286.31	245.01	125.00	125.12	-0.12	17.28	239.7	5422.5	-19.3	210.0	1.29	22.8	233.9	2.3	2.14	1.75	30.8	86.54	39.58	18.8
05/20/73	131.92	20.28	281.83	259.10	125.00	125.11	-0.11	15.71	218.1	5420.3	-2.2	210.0	0.00	0.0	0.0	0.0	1.71	1.40	24.5	86.20	39.81	18.7
05/27/73	131.95	21.03	292.02	268.65	124.99	125.27	-0.28	15.54	215.7	5454.3	34.0	210.6	1.82	28.3	293.8	2.9	2.11	1.79	31.4	86.31	39.68	18.9
06/03/73	131.97	22.17	307.84	283.21	125.04	125.29	-0.25	18.35	254.8	5458.2	3.9	210.7	1.08	18.6	192.2	1.9	1.75	1.49	26.1	86.16	39.13	18.9
06/10/73	131.94	22.94	318.54	293.08	125.08	125.28	-0.28	18.70	259.7	5455.2	-3.0	210.7										

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -3793986.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia				Change in Magnolia				Drainage area = 2178 Runoff Coeff. = 0.01				Leakance = 3.29E-04 1/day			
	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs		Magnolia Volume at Start of Week ac-feet	Magnolia Volume During Week ac-feet	Magnolia Surface Area	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet				
	Sand Hill Elevation ft	Sand Hill Discharge cfs				Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet														Magnolia Discharge cfs	Magnolia Discharge ac-feet		
10/07/73	131.82	28.52	388.21	338.75	125.25	125.39	-0.14	24.43	339.2	5479.7	-34.4	211.1	0.22	3.9	0.0	0.0	1.45	1.10	19.5	87.15	36.25	18.6		
10/14/73	131.82	21.03	292.02	268.65	125.08	125.13	-0.05	20.74	268.0	5423.5	-56.2	210.0	0.00	0.0	0.0	1.38	1.03	18.2	87.00	36.13	18.6			
10/21/73	131.75	17.39	241.48	222.16	124.90	125.01	-0.11	15.78	219.1	5396.5	-24.0	209.8	0.26	4.6	0.5	1.02	0.78	13.8	87.05	37.97	18.5			
10/28/73	131.70	15.00	206.28	191.80	124.80	124.86	-0.06	14.02	194.7	5366.4	-33.1	208.9	0.03	0.5	5.4	0.1	0.98	0.70	12.3	86.98	37.90	18.4		
11/04/73	131.88	13.39	185.71	170.86	124.75	124.80	-0.05	11.90	165.2	5355.1	-11.3	208.7	0.66	11.5	119.7	1.2	0.92	0.65	11.4	86.80	36.01	18.3		
11/11/73	131.82	12.13	168.41	154.94	124.70	124.65	0.05	11.25	156.2	5323.0	-32.1	208.0	0.02	0.3	3.6	0.0	1.06	0.75	13.0	86.85	36.00	18.3		
11/18/73	131.58	10.93	151.80	139.65	124.62	124.53	0.09	9.59	133.1	5299.3	-23.7	207.5	0.00	0.0	0.0	0.0	0.98	0.70	12.1	86.34	36.19	18.2		
11/25/73	131.57	9.79	135.89	125.02	124.62	124.42	0.20	8.51	118.2	5275.3	-24.0	207.1	0.00	0.0	0.0	0.0	0.87	0.72	12.5	86.04	36.38	18.3		
12/02/73	131.56	9.51	132.03	121.46	124.56	124.36	0.20	7.55	104.8	5263.5	-11.8	206.8	0.16	2.8	29.0	0.3	0.92	0.76	13.2	85.75	36.61	18.3		
12/09/73	131.57	9.23	126.21	117.96	124.68	124.47	0.21	7.11	98.7	5266.3	22.8	207.3	1.86	26.6	301.0	3.0	0.67	0.56	9.6	85.68	36.79	18.4		
12/16/73	131.72	9.51	132.03	121.46	124.68	124.55	0.13	7.98	110.8	5303.4	17.1	207.6	1.85	32.0	335.5	3.4	0.72	0.60	10.3	85.66	36.68	18.4		
12/23/73	131.78	14.02	184.61	179.04	124.84	124.77	0.07	8.89	120.7	5349.4	46.0	208.5	0.74	12.8	134.2	1.3	0.59	0.45	7.9	85.62	36.15	18.6		
12/30/73	131.82	16.01	222.27	204.49	124.90	124.98	-0.08	10.93	151.8	5393.2	43.8	209.4	0.88	15.3	159.6	1.8	0.52	0.40	7.0	85.71	36.27	18.9		
01/06/74	131.80	17.39	241.48	222.16	124.88	125.02	-0.16	13.59	189.7	5400.1	6.9	209.8	0.01	0.2	1.8	0.0	0.58	0.45	7.8	85.70	36.32	18.0		
01/13/74	131.77	16.70	231.80	213.26	124.83	124.96	-0.13	14.08	195.2	5388.5	-11.6	209.3	0.00	0.0	0.0	0.0	0.79	0.61	10.6	85.56	36.30	19.0		
01/20/74	131.72	15.67	217.58	200.16	124.74	124.91	-0.17	13.27	184.3	5376.9	-11.8	209.1	0.00	0.0	0.0	0.0	0.63	0.49	8.5	85.58	36.32	19.0		
01/27/74	131.68	14.02	194.61	179.04	124.69	124.79	-0.10	12.53	174.0	5352.7	-24.1	208.6	0.00	0.0	0.0	0.0	0.65	0.59	10.2	85.43	36.36	19.0		
02/03/74	131.63	12.75	178.98	162.82	124.68	124.72	-0.04	11.11	154.3	5338.9	-13.9	208.3	0.28	5.0	52.6	0.5	0.75	0.52	9.0	85.26	36.46	19.0		
02/10/74	131.57	11.23	155.88	143.41	124.58	124.65	-0.07	10.37	144.0	5323.8	-15.1	208.0	0.87	16.8	175.9	1.8	1.18	0.81	14.1	85.22	36.43	19.0		
02/17/74	131.51	9.51	132.03	121.46	124.50	124.45	0.05	8.62	133.8	5281.1	-42.8	207.2	0.00	0.0	0.0	0.0	0.97	0.67	11.8	85.20	36.25	18.9		
02/24/74	131.58	7.91	109.83	101.05	124.52	124.41	0.11	7.77	107.9	5272.9	-8.3	207.0	1.58	28.9	282.9	2.8	0.98	0.72	12.4	85.06	36.32	18.8		
03/03/74	131.53	8.79	135.89	125.02	124.40	124.35	0.05	7.46	103.5	5262.1	-10.8	206.8	0.00	0.0	0.0	0.0	1.07	0.78	13.5	84.99	36.36	18.8		
03/10/74	131.49	8.43	107.68	102.98	124.36	124.23	0.13	7.08	98.0	5236.2	-25.9	206.3	0.00	0.0	0.0	0.0	1.33	0.97	16.7	84.82	36.41	18.8		
03/17/74	131.49	7.41	102.82	94.59	124.28	124.09	0.19	6.18	85.8	5206.0	-28.1	205.7	0.01	0.2	1.8	0.0	1.46	1.07	18.3	84.77	36.32	18.8		
03/24/74	131.52	7.41	102.82	94.59	124.40	124.24	0.16	5.32	73.9	5238.4	30.4	206.3	2.37	40.8	429.8	4.3	1.15	0.97	16.6	84.71	36.53	18.7		
03/31/74	131.58	8.17	113.41	104.34	124.38	124.14	0.24	8.28	86.9	5218.1	-20.4	205.9	0.01	0.2	1.8	0.0	1.33	1.12	18.2	84.68	36.48	18.8		
04/07/74	131.49	9.23	126.21	117.96	124.34	124.15	0.19	5.82	78.0	5218.4	1.4	205.9	0.27	4.6	46.0	0.5	1.73	1.45	24.9	84.59	36.56	18.8		
04/14/74	131.42	7.41	102.82	94.59	124.24	124.05	0.19	5.68	78.6	5198.7	-20.7	205.5	0.34	5.8	61.7	0.6	1.69	1.42	24.4	84.45	36.59	18.8		
04/21/74	131.40	5.75	79.84	73.45	124.16	123.88	0.30	5.05	70.1	5161.1	-37.6	204.7	0.12	2.1	21.8	0.2	1.74	1.43	24.4	84.29	36.57	18.8		
04/28/74	131.37	5.31	73.74	67.84	124.10	123.74	0.36	4.01	55.7	5136.6	-24.5	204.2	0.44	7.5	79.8	0.8	1.87	1.53	28.2	84.05	36.69	18.7		
05/05/74	131.27	4.68	64.98	59.78	124.04	123.59	0.45	3.38	46.7	5105.1	-31.6	203.8	0.02	0.3	3.6	0.0	1.89	1.56	28.4	84.05	36.54	18.7		
05/12/74	131.22	2.83	39.34	36.19	124.08	123.64	0.44	2.50	34.7	5115.7	10.6	203.8	2.87	48.7	520.4	5.2	1.88	1.54	28.2	83.98	36.66	18.6		
05/19/74	131.47	2.06	28.66	26.37	124.22	123.57	0.65	2.79	38.8	5100.9	-14.8	203.5	2.17	38.9	393.5	3.9	1.78	1.44	24.5	83.93	36.63	18.7		
05/26/74	131.52	6.91	98.00	88.32	124.18	123.68	0.50	2.38	33.1	5119.2	18.3	203.9	0.46	7.8	83.4	0.8	1.87	1.59	27.0	83.83	36.62	18.6		
06/02/74	131.47	8.17	113.41	104.34	124.08	123.78	0.30	2.89	40.1	5145.1	26.0	204.4	0.16	2.7	29.0	0.3	1.58	1.33	22.5	83.65	36.41	18.7		
06/09/74	131.42	6.91	98.00	88.32	124.12	123.67	0.15	3.59	49.8	5182.2	37.1	205.2	2.38	40.5	431.6	4.3	1.89	1.61	27.4	83.63	36.43	18.9		
06/16/74	131.42	5.75	79.84	73.45	124.20	124.10	0.10	4.59	63.7	5210.8	28.6	205.7	3.28	55.7	591.1	5.9	1.63	1.39	23.7	83.65	36.45	19.1		
06/23/74	131.48	5.75	79.84	73.45	124.14	123.88	0.26	5.40	75.0	5164.0	-46.8	204.8	0.00	0.0	0.0	0.0	1.87	1.52	28.1	83.69	36.49	19.2		
06/30/74	131.54	7.16	98.38	91.43	124.35	124.26	0.09	4.09	56.8	5242.4	78.4	206.4	4.41	75.3	799.7	8.0	1.32	1.20	20.5	83.65	36.61	19.0		
07/07/74	131.68	8.69	120.72	111.06	124.54	124.22	0.32	6.39	88.7	5235.4	-7.0	206.2	0.50	8.6	90.7	0.9	1.25	1.14	19.6	83.61	36.42	19.4		
07/14/74	131.62	12.75	178.98	162.82	124.68	124.65	0.03	8.16	85.5	5324.6	89.2	208.0	3.12	53.8	565.8	5.7	1.80	1.64	28.2	83.91	36.74	19.2		
07/21/74	131.82	17.39	241.48	222.16	124.88	124.98	-0.32	9.86	134.1	5392.7	66.1	209.4	1.33	23.1	241.2	2.4	1.64	1.49	25.9	83.83	36.41	19.6		
07/28/74	131.82	17.39	241.48	222.16	124.84	125.19	-0.35	13.55	188.1	5435.8	43.1	210.3	2.43	42.4	440.6	4.4	1.12	1.02	17.8	83.99	36.41	19.9		
08/04/74	131.92	21.03	292.02	268.65	124.88	125.28	-0.40	16.78	232.7	5450.8	15.0	210.8	1.00	17.5	181.3	1.8	1.27	1.16	20.3	83.94	36.32	20.0		
08/11/74	131.92	21.03	292.02	268.65	124.90	125.34	-0.44	18.04	250.4	5488.2	17.4	210.9	1.92	33.7	348.2	3.5	1.12	1.02	17.9	83.96	36.36	20.1		
08/18/74	131.81	21.03	292.02	268.65	124.86	125.32	-0.46	19.63	272.5	5484.9	-3.3	210.9	2.10	36.9	380.8	3.8	1.25	1.14	20.0	84.07	36.28	20.2		
08/25/74	131.78	17.04	236.62	217.99	124.92	125.11	-0.19	19.32	268.2	5419.4	-45.5	209.9	2.48	43.6	449.7	4.5	1.54	1.31	23.0	84.14	36.97	20.1		
09/01/74	131.90	16.01	222.27	204.49	124.98	124.99	-0.07	15.46	214.7	5372.7	-46.7	209.0	0.27	4.7	48.0	0.5	1.47	1.25	21.9	84.11	36.77	19.9		
09/08/74	132.12	20.28	281.63	259.10	125.28	125.37	-0.09	12.27	170.4	5474.5	101.9	211.0	2.63	45.8	478.9	4.8	1.20	1.02	17.8	84.22	36.15	19.7		
09/15/74	132.24	29.00	402.58	370.37	125.48	125.80	-0.32	20.23	290.9	5568.0	80.5	212.8	2.15	37.8	399.9	3.9	1.38	1.17	20.6	84.41	36.39	20.0		
09/22/74	132.20	34.14	473.96	436.04	125.44	125.84	-0.40	30.80	429.1	5573.4	8.4	213.0	2.14	38.0</										

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -3793966.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change In Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Predp. in/week	Lake Surface Predp. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gaineville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Predp. ac-feet				Overland Runoff Volume ac-feet	Magnolia Lake Elev. ft	Magnolia Lake Elev. ft	Florida Aquifer Elevation ft
01/05/75	131.61	10.93	151.90	139.65	124.58	124.38	0.22	6.00	83.3	5292.5	32.1	206.8	0.28	4.5	47.1	0.5	0.74	0.57	9.8	83.33	41.02	19.4
01/12/75	131.77	10.84	147.75	135.93	124.62	124.55	0.07	7.08	98.3	5302.1	39.6	207.6	1.79	30.8	324.6	3.2	0.95	0.73	12.6	83.30	41.24	19.8
01/19/75	131.74	15.87	217.56	200.16	124.65	124.80	-0.14	8.63	119.9	5355.7	53.6	206.7	0.19	3.3	34.5	0.3	0.79	0.61	10.5	83.27	41.53	19.8
01/28/75	131.72	14.67	203.67	187.36	124.72	124.91	-0.19	11.28	156.6	5377.7	22.0	206.1	0.86	15.0	155.9	1.8	0.44	0.30	5.3	83.24	41.67	20.0
02/02/75	131.70	14.02	194.61	179.04	124.70	124.79	-0.09	12.58	174.7	5352.2	-25.6	206.6	0.01	0.2	1.8	0.0	0.83	0.57	10.0	83.21	41.56	20.1
02/09/75	131.72	13.36	185.71	170.86	124.67	124.83	-0.16	11.08	153.9	5361.4	9.3	206.8	1.16	20.2	210.3	2.1	0.83	0.57	10.0	83.17	41.66	20.0
02/16/75	131.72	14.02	194.61	179.04	124.74	124.90	-0.16	11.61	161.1	5375.7	14.3	206.1	1.45	25.2	262.9	2.6	0.95	0.66	11.4	83.14	41.76	20.1
02/23/75	131.70	14.02	194.61	179.04	124.80	124.86	-0.06	12.46	173.0	5370.9	-4.8	206.0	1.02	17.8	165.0	1.8	0.81	0.59	10.3	83.11	41.77	20.2
03/02/75	131.67	13.36	185.71	170.86	124.74	124.79	-0.05	12.17	168.9	5363.1	-17.9	206.6	0.74	12.9	134.2	1.3	1.09	0.80	13.9	83.08	41.72	20.2
03/09/75	131.64	12.44	172.67	158.66	124.64	124.68	-0.04	11.13	154.6	5329.7	-23.4	206.2	0.36	6.6	68.9	0.7	1.17	0.85	14.8	83.04	41.64	20.1
03/16/75	131.60	11.53	160.02	147.22	124.58	124.55	0.03	9.91	137.6	5303.1	-26.6	207.6	0.00	0.0	0.0	0.0	1.28	0.93	16.2	83.01	41.54	20.0
03/23/75	131.58	10.35	143.75	132.25	124.62	124.46	0.16	8.66	120.5	5283.3	-18.8	207.2	0.34	5.9	61.7	0.6	1.25	1.05	18.2	82.98	41.46	19.9
03/30/75	131.52	9.23	128.21	117.95	124.52	124.30	0.22	7.86	109.1	5251.6	-31.6	206.6	0.15	2.8	27.2	0.3	1.62	1.36	23.5	82.95	41.36	19.8
04/06/75	131.52	8.17	113.41	104.34	124.30	124.14	0.16	6.70	93.0	5218.6	-33.1	205.9	0.00	0.0	0.0	0.0	1.71	1.44	24.7	82.91	41.23	19.7
04/13/75	131.50	8.17	113.41	104.34	124.35	124.24	0.11	5.63	78.2	5209.7	21.1	206.3	1.72	29.5	311.9	3.1	1.25	1.05	18.0	82.88	41.36	19.6
04/20/75	131.44	7.86	106.30	97.80	124.40	124.14	0.26	6.30	87.4	5218.7	-21.0	205.9	0.49	8.4	88.9	0.9	1.49	1.22	21.0	82.85	41.29	19.7
04/27/75	131.38	6.20	88.15	79.28	124.25	123.94	0.31	5.64	78.3	5177.8	-40.9	206.1	0.00	0.0	0.0	0.0	1.58	1.30	22.2	82.82	41.13	19.8
05/04/75	131.30	4.48	62.17	57.19	124.15	123.64	0.51	4.47	62.0	5156.7	-21.1	204.6	1.46	25.0	264.7	2.6	1.74	1.43	24.4	82.78	41.06	19.5
05/11/75	131.36	3.36	46.45	42.73	124.05	123.61	0.44	3.80	54.1	5110.3	-46.4	203.7	0.21	3.6	38.1	0.4	1.40	1.15	19.8	82.80	40.81	19.4
05/18/75	131.40	4.48	62.17	57.19	124.15	123.71	0.44	2.65	36.7	5130.9	20.5	204.1	2.33	39.6	422.5	4.2	1.76	1.44	24.5	82.74	40.96	19.2
05/25/75	131.37	5.31	73.74	67.84	124.05	123.60	0.45	3.21	44.5	5106.7	-24.2	203.6	0.00	0.0	0.0	0.0	1.95	1.68	28.2	82.55	41.05	19.3
06/01/75	131.37	4.68	64.86	59.78	123.90	123.59	0.31	2.55	35.3	5104.7	-2.0	203.6	1.04	17.6	186.6	1.9	1.85	1.57	26.7	82.46	41.13	19.3
06/08/75	131.37	4.68	64.86	59.78	123.75	123.62	0.13	2.49	34.6	5111.6	6.9	203.7	1.22	20.7	221.2	2.2	1.52	1.29	21.9	82.42	41.20	19.3
06/15/75	131.40	4.68	64.86	59.78	123.90	123.64	0.26	2.68	37.2	5115.7	4.1	203.8	1.41	23.9	255.7	2.6	1.77	1.50	25.5	82.37	41.27	19.4
06/22/75	131.46	5.31	73.74	67.84	123.85	123.61	0.24	2.79	38.8	5109.9	-5.8	203.7	0.43	7.3	78.0	0.8	1.52	1.38	23.5	82.35	41.26	19.4
06/29/75	131.50	6.67	92.67	85.25	124.00	123.61	0.39	2.64	36.6	5150.8	40.9	204.5	1.77	30.0	321.0	3.2	1.40	1.27	21.6	82.37	41.44	19.4
07/06/75	131.60	7.86	106.30	97.80	124.32	123.68	0.64	3.74	51.9	5194.5	13.7	204.8	0.78	13.3	141.4	1.4	1.76	1.60	27.3	82.35	41.53	19.6
07/13/75	131.70	10.35	143.75	132.25	124.68	124.39	0.29	4.11	57.0	5269.7	105.1	206.9	3.71	63.3	672.7	6.7	1.32	1.20	20.5	82.42	41.97	19.6
07/20/75	131.80	13.36	185.71	170.86	124.72	124.59	0.13	7.34	101.9	5310.9	41.2	207.8	0.52	9.34	94.9	0.9	1.12	1.02	17.8	82.39	42.20	20.1
07/27/75	131.78	16.70	231.80	213.26	124.90	124.66	-0.06	9.02	125.3	5368.7	77.8	209.3	1.44	24.9	261.1	2.6	1.11	1.01	17.5	82.48	42.46	20.2
08/03/75	131.74	16.01	222.27	204.49	124.84	125.03	-0.19	13.29	164.5	5403.4	14.7	206.6	1.86	29.5	305.5	3.1	1.09	0.99	17.9	82.56	42.47	20.5
08/10/75	131.70	14.67	203.67	187.36	124.66	124.78	-0.10	14.29	198.4	5351.4	-52.0	206.6	0.23	4.0	41.7	0.4	1.56	1.42	24.8	82.49	42.30	20.8
08/17/75	131.74	13.36	185.71	170.86	124.58	124.74	-0.16	11.04	153.3	5342.6	-8.8	206.4	0.85	14.8	154.1	1.5	1.41	1.28	22.3	82.54	42.20	20.4
08/24/75	131.60	14.67	203.67	187.36	124.62	124.78	-0.16	10.57	146.7	5350.8	8.2	206.6	1.02	10.7	107.0	1.1	1.59	1.35	23.5	82.62	42.16	20.3
08/31/75	131.72	16.70	231.80	213.26	124.58	124.66	-0.08	11.01	152.8	5361.6	40.8	206.4	1.06	18.4	182.2	1.9	1.33	1.13	19.6	82.73	42.25	20.3
09/07/75	131.77	14.02	194.61	179.04	124.78	125.22	-0.44	13.48	187.2	5442.3	50.7	210.4	5.27	82.0	955.6	9.6	1.50	1.28	22.2	82.76	42.46	20.4
09/14/75	131.82	15.87	217.56	200.16	124.68	125.01	-0.33	17.31	240.3	5399.4	-42.9	206.5	1.94	34.0	351.8	3.5	1.32	1.12	19.7	82.78	42.23	20.6
09/21/75	131.96	17.39	241.46	222.18	124.96	125.14	-0.16	14.01	194.6	5426.8	27.4	210.1	1.82	31.8	330.0	3.3	1.12	0.85	14.9	83.03	42.12	20.4
09/28/75	131.88	22.56	313.17	288.12	125.02	125.59	-0.57	16.04	222.7	5521.2	94.4	212.0	3.35	56.7	607.5	6.1	1.15	0.87	15.3	83.02	42.57	20.4
10/05/75	131.92	19.56	271.39	248.67	125.08	125.02	0.06	25.26	350.7	5401.7	-118.5	206.6	0.81	14.3	148.9	1.5	1.00	0.78	13.4	83.02	42.01	20.8
10/12/75	131.98	21.03	292.02	268.65	125.22	125.28	-0.04	14.17	198.7	5450.7	49.0	210.6	0.96	9.8	101.5	1.0	1.01	0.77	13.4	83.13	42.13	20.3
10/19/75	131.91	22.56	313.17	288.12	125.30	125.36	-0.06	18.02	250.3	5471.6	21.0	211.0	1.02	17.9	185.0	1.8	1.21	0.92	16.1	83.21	42.14	20.5
10/26/75	131.86	20.66	286.81	263.66	125.28	125.14	0.14	19.06	277.1	5425.6	-48.1	210.1	0.00	0.0	0.0	0.0	0.99	0.70	12.4	83.06	42.06	20.5
11/02/75	131.76	18.82	261.26	240.37	124.88	125.15	-0.27	15.94	221.3	5427.4	1.9	210.1	0.79	13.8	143.3	1.4	0.97	0.69	12.1	83.04	42.11	20.4
11/09/75	131.67	15.33	212.99	195.86	124.82	124.83	-0.01	16.09	223.4	5382.1	-45.3	209.2	0.59	10.3	107.0	1.1	0.71	0.50	8.8	82.95	41.96	20.4
11/16/75	131.62	12.44	172.67	158.66	124.62	124.73	0.09	12.86	178.5	5340.2	-41.9	208.4	0.40	7.0	72.5	0.7	0.78	0.55	9.7	82.92	41.91	20.3
11/23/75	131.57	10.93	151.90	139.65	124.74	124.56	0.18	10.44	145.0	5304.3	-35.8	207.6	0.06	1.0	10.9	0.1	0.80	0.66	11.5	82.73	41.83	20.2
11/30/75	131.52	9.51	132.03	121.48	124.66	124.41	0.27	8.73	121.2	5274.7	-29.6	207.0	0.00	0.0	0.0	0.0	0.68	0.56	9.8	82.65	41.77	20.1
12/07/75	131.52	8.17	113.41	104.34	124.66	124.27	0.39	7.53	104.5	5245.8	-29.0	206.5	0.01	0.2	1.8	0.0	0.83	0.52	9.0	82.61	41.68	20.0
12/14/75	131.50	8.17	113.41	104.34	124.64	124.21	0.43	6.50	90.2	5232.7	-13.0	206.2	0.06	1.0	10.9	0.1	0.59	0.49	8.4	82.42	41.80	19.9
12/21/75																						

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%				Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 123.2 C1 = -3793966.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day		
	Band Hill Elevation ft	Band Hill Discharge cfs	Band Hill Discharge ac-feet	Effective Discharge ac-feet	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Area Precip. ac-feet	Overland Runoff Volume ac-feet				Magnolia Lake Acqifer Elevation elev	Magnolia Lake Acqifer Elevation ft	Brooklyn Leakage ac-feet														
															Drainage Area Precip. ac-feet						Overland Runoff Volume ac-feet	Florida Acqifer Elevation elev				Florida Acqifer Elevation ft	Brooklyn Leakage ac-feet	
04/04/76	131.20	1.92	26.70	24.57	124.10	123.40	0.70	2.00	27.8	5088.6	-20.7	202.6	1.39	23.5	252.1	2.5	1.67	1.40	23.8	81.10	42.30	19.8						
04/11/76	131.15	1.79	24.80	22.82	124.04	123.41	0.63	1.37	19.1	5069.2	2.4	202.6	1.83	30.9	331.8	3.3	1.11	0.89	15.8	81.03	42.36	19.8						
04/18/76	131.11	1.17	16.22	14.92	123.86	123.18	0.80	1.45	20.1	5021.9	-47.4	201.9	0.00	0.0	0.0	0.0	1.61	1.32	22.3	80.85	42.32	19.8						
04/25/76	131.06	0.75	10.47	9.84	123.86	123.02	0.84			4999.5	-32.3	201.2	0.02	0.3	3.6	0.0	1.64	1.34	22.6	80.79	42.29	19.7						
05/02/76	131.02	0.34	4.73	4.35	123.78	122.94	0.84			4973.1	-16.4	200.9	1.10	18.4	199.5	2.0	1.57	1.29	21.8	80.65	42.29	19.6						
05/09/76	131.09	0.09	1.31	1.20	123.68	122.73	0.95			4931.7	-41.3	200.0	0.00	0.0	0.0	0.0	1.67	1.37	22.9	80.53	42.20	19.6						
05/16/76	131.15	0.57	7.98	7.34	123.65	122.84	0.84			4854.6	22.8	200.5	2.92	48.7	529.5	5.3	1.39	1.14	19.0	80.68	42.19	19.5						
05/23/76	131.21	1.17	16.22	14.92	123.76	122.85	0.91			4855.8	1.2	200.5	1.48	24.7	286.4	2.7	1.52	1.29	21.6	80.88	41.97	19.5						
05/30/76	131.26	1.82	26.70	24.57	123.90	122.97	0.93			4980.7	24.9	201.0	1.98	33.1	359.0	3.6	1.19	1.01	16.9	80.62	42.35	19.4						
06/06/76	131.32	3.00	41.65	38.32	124.04	123.00	1.04			4986.4	5.7	201.1	0.36	6.5	70.7	0.7	1.42	1.21	20.2	80.67	42.34	19.7						
06/13/76	131.38	3.71	51.48	47.35	124.18	123.03	1.15			4991.6	5.2	201.2	0.04	0.7	7.9	0.1	1.63	1.39	23.2	80.68	42.30	19.7						
06/20/76	131.40	4.48	62.17	57.19	124.28	123.51	0.75			5088.3	96.7	203.2	4.99	78.7	850.5	8.5	1.63	1.67	27.9	80.81	42.70	19.7						
06/27/76	131.44	5.31	73.74	67.84	124.38	123.88	0.48			5185.1	28.1	204.8	4.03	88.3	730.8	7.3	1.20	1.09	18.5	80.81	43.07	20.0						
07/04/76	131.48	6.20	86.15	79.26	124.40	124.04	0.36	4.12	57.2	5198.3	33.2	205.5	2.99	45.9	487.8	4.9	1.24	1.13	19.3	80.82	43.23	20.4						
07/11/76	131.46	7.16	96.38	91.43	124.66	124.06	0.60	5.04	70.0	5201.0	2.7	205.5	1.40	24.0	253.9	2.5	1.59	1.45	24.8	80.85	43.21	20.5						
07/18/76	131.44	6.67	92.67	85.25	124.66	123.90	0.76	5.12	71.0	5199.0	-32.0	204.9	0.09	1.5	16.3	0.2	1.76	1.60	27.4	80.77	43.13	20.5						
07/25/76	131.42	6.20	86.15	79.26	124.58	123.78	0.80	4.23	58.7	5144.7	-24.2	204.4	0.04	0.7	7.3	0.1	1.62	1.47	25.2	80.79	42.99	20.4						
08/01/76	131.40	5.75	79.84	73.45	124.54	123.94	0.60	3.58	49.7	5178.6	31.9	205.1	2.88	49.1	522.2	5.2	1.67	1.52	25.9	80.78	43.17	20.3						
08/08/76	131.38	5.31	73.74	67.84	124.38	123.83	0.53	4.43	61.8	5154.1	-22.8	204.6	0.56	9.6	101.5	1.0	1.22	1.11	19.0	80.62	43.21	20.4						
08/15/76	131.39	4.89	67.85	62.42	124.38	123.79	0.60	3.83	53.1	5140.3	-13.8	204.3	1.11	18.9	201.3	2.0	1.82	1.38	23.8	80.48	43.28	20.4						
08/22/76	131.39	3.89	54.08	48.73	124.30	123.64	0.66	3.48	48.0	5114.8	-25.7	203.8	0.98	10.6	107.0	1.1	1.25	1.06	18.1	80.46	43.16	20.4						
08/29/76	131.24	3.17	44.02	40.50	124.18	123.47	0.71	2.77	38.4	5080.5	-34.2	203.1	0.28	4.8	50.8	0.5	1.47	1.25	21.2	80.17	43.29	20.3						
09/05/76	131.20	2.36	32.78	30.14	124.22	123.45	0.77	1.79	24.9	5078.8	-3.7	203.0	1.78	30.1	322.8	3.2	1.53	1.30	22.0	80.24	43.20	20.3						
09/12/76	131.27	1.79	24.80	22.82	124.56	123.49	1.07	1.66	23.3	5084.9	8.1	203.2	2.80	44.0	471.5	4.7	1.36	1.17	19.8	80.31	43.18	20.2						
09/19/76	131.35	2.83	39.34	36.19	124.58	123.44	1.14	1.82	26.7	5075.5	-8.3	203.0	0.70	11.9	128.9	1.3	0.91	0.89	11.7	80.47	42.97	20.3						
09/26/76	131.42	4.28	59.41	54.66	124.56	123.46	1.10	1.64	22.8	5079.3	3.8	203.1	0.29	4.9	52.6	0.5	1.04	0.79	13.4	80.38	43.06	20.1						
10/03/76	131.50	5.75	79.84	73.45	124.52	123.53	0.99	1.78	24.4	5082.3	13.0	203.3	0.00	0.0	0.0	0.0	1.23	0.93	15.8	80.32	43.21	20.2						
10/10/76	131.43	7.86	108.30	97.80	124.46	123.77	0.69	2.14	29.7	5142.9	50.5	204.4	0.99	16.8	179.5	1.8	1.23	0.93	15.8	80.24	43.54	20.3						
10/17/76	131.38	5.88	82.97	76.33	124.30	123.82	0.48	3.53	49.0	5152.3	9.4	204.6	0.92	15.7	168.8	1.7	1.14	0.87	14.8	80.30	43.52	20.5						
10/24/76	131.29	4.48	62.17	57.19	124.22	123.68	0.54	3.78	52.5	5122.9	-29.3	204.0	0.04	0.7	7.3	0.1	1.18	0.84	14.3	80.10	43.58	20.6						
10/31/76	131.22	3.17	44.02	40.50	124.18	123.55	0.63	2.99	41.5	5088.5	-28.4	203.4	0.26	4.4	47.1	0.5	0.81	0.58	9.8	80.07	43.47	20.5						
11/07/76	131.22	2.06	28.66	26.37	124.00	123.37	0.63	2.86	31.4	5080.3	-36.2	202.7	0.01	0.2	1.8	0.0	0.91	0.65	11.0	79.89	43.48	20.4						
11/14/76	131.21	2.06	28.66	26.37	123.96	123.28	0.68	1.17	16.2	5041.6	-18.8	202.3	0.03	0.5	5.4	0.1	0.78	0.54	9.1	80.02	43.28	20.3						
11/21/76	131.21	1.82	28.70	24.57	123.90	123.47	0.43	0.54	7.6	5081.3	39.7	203.1	2.59	43.7	489.7	4.7	0.99	0.32	5.5	79.97	43.50	20.2						
11/28/76	131.20	1.82	28.70	24.57	123.96	123.33	0.63	1.82	25.2	5052.2	-29.0	202.5	0.00	0.0	0.0	0.0	0.57	0.47	8.0	80.05	43.28	20.4						
12/05/76	131.20	1.79	24.80	22.82	123.94	123.27	0.67	0.91	12.6	5039.6	-12.6	202.2	0.31	5.2	58.2	0.6	0.80	0.50	8.4	79.89	43.37	20.2						
12/12/76	131.32	1.79	24.80	22.82	124.00	123.45	0.75	0.48	6.6	5037.4	-2.2	202.2	0.40	6.7	72.5	0.7	0.40	0.33	5.6	79.91	43.34	20.3						
12/19/76	131.44	3.71	51.48	47.35	124.40	123.47	0.93	0.40	5.6	5080.2	42.8	203.1	1.38	23.3	250.2	2.5	0.35	0.27	4.5	80.22	43.25	20.2						
12/26/76	131.56	6.20	86.15	79.26	124.38	123.85	0.53	1.78	24.8	5157.5	77.3	204.7	2.87	45.2	484.2	4.8	0.53	0.41	6.9	80.60	43.24	20.3						
01/02/77	131.68	9.23	128.21	117.95	124.90	124.05	0.56	3.92	54.4	5199.5	41.9	205.5	0.41	7.0	74.3	0.7	0.88	0.52	8.9	80.52	43.53	20.4						
01/09/77	131.68	12.75	178.96	162.82	124.66	124.54	0.14	5.07	70.4	5300.3	100.9	207.6	1.85	31.7	335.5	3.4	0.45	0.35	5.9	80.85	43.68	20.7						
01/16/77	131.64	12.13	168.41	154.94	124.66	124.67	-0.01	8.56	118.8	5327.0	26.7	208.1	1.19	20.6	215.8	2.2	0.84	0.65	11.2	80.89	43.78	20.9						
01/23/77	131.61	11.53	160.02	147.22	124.58	124.58	-0.00	9.78	135.8	5309.8	-17.5	207.7	0.00	0.0	0.0	0.0	0.86	0.46	7.9	80.81	43.77	21.0						
01/30/77	131.58	10.84	147.75	135.93	124.50	124.50	-0.00	8.96	124.4	5292.9	-16.6	207.4	0.04	0.7	7.3	0.1	0.86	0.46	7.9	80.84	43.67	21.0						
02/06/77	131.58	9.79	135.89	125.02	124.82	124.64	-0.02	8.25	114.5	5321.7	28.8	208.0	2.44	42.2	442.5	4.4	0.82	0.43	7.4	80.92	43.72	20.9						
02/13/77	131.58	9.23	128.21	117.95	124.58	124.42	0.16	9.52	132.2	5275.3	-46.4	207.1	0.00	0.0	0.0	0.0	0.93	0.64	11.1	81.11	43.30	21.0						
02/20/77	131.61	9.79	135.89	125.02	124.52	124.37	0.15	7.55	104.8	5294.6	-10.8	208.8	0.13	2.2	23.6	0.2	1.01	0.74	12.7	81.03	43.34	20.7						
02/27/77	131.84	10.84	147.75	135.93	124.56	124.51	0.05	7.15	99.3	5293.5	28.9	207.4	1.70	29.3	308.3	3.1	1.54	1.12	19.4	81.11	43.40	20.7						
03/06/77	131.80	11.53	160.02	147.22	124.54	124.52	0.02	8.27	114.9	5298.3	2.8	207.5	0.28	4.8	50.8	0.5	1.12	0.82	14.1	81.02	43.50	20.8						
03/13/77	131.56	10.35	143.75	132.25	124.52	124.52	0.00	8.39	118.5	5295.8	-0.5	207.5	0.99	15.4	161.4	1.6	0.99	0.72	12.5	81.08	43.44	20.8						
03/20/77	131.51	8.98	124.44	114.48	124.56	124.30	0.26	8.37	116.2	5292.1	-43.7	208.8	0.00	0.0	0.0	0.0	1.46	1.23	21.2	80.98	43.32	20.8						
03/27/77	131.47	7.91	108.83	101.05	124.40	124.14	0.2																					

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241863.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -3793966.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Lackance = 3.29E-04 1/day				
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Magnolia Aquifer Elevation elev	Florida Aquifer Elevation ft	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																			
07/03/77	131.02	0.15	2.08	1.90	123.06	121.45	1.61		4679.0	-39.4	194.8	0.49	8.0	88.9	0.0	2.09	1.90	31.0	79.01	42.43	19.2		
07/10/77	131.05	0.09	1.31	1.20	123.00	121.26	1.74		4641.6	-37.4	193.8	0.34	5.5	61.7	0.6	1.74	1.58	25.7	79.04	42.21	19.1		
07/17/77	131.08	0.27	3.77	3.47	122.88	121.05	1.83		4601.5	-40.1	193.0	0.15	2.4	27.2	0.3	1.88	1.89	27.3	79.01	42.04	18.9		
07/24/77	131.11	0.49	6.83	6.28	122.74	120.84	1.90		4560.5	-41.0	192.1	0.00	0.0	0.0	0.0	1.95	1.77	28.5	78.87	41.98	18.7		
07/31/77	131.14	0.75	10.47	9.64	122.90	120.69	2.21		4531.9	-28.6	191.4	0.46	7.4	83.4	0.6	1.91	1.74	27.8	78.87	41.82	18.6		
08/07/77	131.14	1.08	14.69	13.52	122.88	120.52	2.36		4500.3	-31.7	190.8	0.05	0.8	9.1	0.1	1.80	1.73	27.6	78.82	41.70	18.5		
08/14/77	131.14	1.06	14.69	13.52	122.82	120.54	2.28		4503.2	2.9	190.8	1.68	28.7	304.6	3.0	1.52	1.38	22.0	78.73	41.81	18.4		
08/21/77	131.13	1.08	14.69	13.52	122.85	120.62	2.03		4557.0	53.6	192.0	4.35	69.2	788.6	7.9	1.36	1.16	18.4	78.75	42.07	18.4		
08/28/77	131.13	0.95	13.22	12.16	123.02	120.80	2.22		4554.5	-2.5	191.9	1.02	16.3	185.0	1.8	1.04	0.88	14.1	78.76	42.04	18.6		
09/04/77	131.13	0.95	13.22	12.16	123.10	120.75	2.35		4543.8	-10.7	191.7	0.64	10.2	116.1	1.2	1.15	0.98	15.6	78.86	41.89	18.6		
09/11/77	131.12	0.95	13.22	12.16	123.18	120.80	2.38		4515.9	-26.0	191.1	0.00	0.0	0.0	0.0	1.59	1.35	21.6	78.85	41.75	18.5		
09/18/77	131.12	0.85	11.82	10.87	123.14	120.78	2.36		4550.2	34.4	191.8	3.38	53.5	609.3	6.1	1.48	1.11	17.7	78.82	41.87	18.4		
09/25/77	131.12	0.85	11.82	10.87	123.38	120.78	2.60		4550.2	-0.0	191.8	1.27	20.3	230.3	2.3	1.23	0.93	14.9	79.10	41.69	18.5		
10/02/77	131.11	0.85	11.82	10.87	123.32	120.71	2.61		4538.4	-13.8	191.5	0.49	7.8	88.9	0.9	1.23	0.93	14.9	79.06	41.66	18.5		
10/09/77	131.11	0.75	10.47	9.64	123.10	120.58	2.52		4511.5	-24.9	191.0	0.03	0.5	5.4	0.1	1.37	1.04	16.6	78.95	41.63	18.4		
10/16/77	130.95	0.75	10.47	9.64	122.98	120.47	2.51		4491.3	-20.2	190.6	0.06	1.0	10.9	0.1	1.04	0.79	12.6	78.80	41.67	18.4		
10/23/77	130.91				122.80	120.31	2.49		4460.6	-30.7	189.9	0.00	0.0	0.0	0.0	1.10	0.78	12.4	78.66	41.63	18.3		
10/30/77	130.88				122.64	120.16	2.48		4432.7	-27.9	189.3	0.00	0.0	0.0	0.0	0.88	0.61	9.7	78.67	41.49	18.2		
11/06/77	130.85				122.62	120.05	2.57		4410.9	-21.7	188.8	0.21	3.3	38.1	0.4	0.65	0.46	7.3	78.79	41.28	18.1		
11/13/77	130.87				122.46	119.90	2.56		4382.1	-26.8	188.1	0.00	0.0	0.0	0.0	0.97	0.69	10.8	78.38	41.52	18.0		
11/20/77	130.89				122.34	119.75	2.59		4354.3	-27.8	187.5	0.00	0.0	0.0	0.0	0.75	0.62	9.8	78.32	41.43	18.0		
11/27/77	130.91				122.38	119.72	2.66		4348.0	-6.3	187.4	1.30	20.3	235.7	2.4	0.85	0.71	11.0	78.35	41.36	17.9		
12/04/77	130.93				122.40	119.65	2.75		4335.1	-13.0	187.1	0.75	11.7	136.0	1.4	0.63	0.52	8.2	78.49	41.15	17.9		
12/11/77	130.82				122.38	119.61	2.77		4327.4	-7.7	186.9	1.13	17.6	204.9	2.0	0.74	0.61	9.6	78.31	41.29	17.8		
12/18/77	130.92				122.44	119.62	2.82		4331.0	3.6	187.0	1.55	24.1	281.1	2.8	0.48	0.36	5.5	78.66	40.98	17.8		
12/25/77	131.02				122.44	119.62	2.82		4330.2	-0.8	187.0	1.35	21.0	244.8	2.4	0.55	0.42	6.6	78.83	40.79	17.7		
01/01/78	131.12	0.09	1.31	1.20	122.38	119.57	2.81		4321.6	-8.5	186.8	0.79	12.3	143.3	1.4	0.49	0.38	5.9	78.83	40.75	17.8		
01/08/78	131.22	0.85	11.82	10.87	122.40	119.54	2.86		4314.5	-7.1	186.6	0.41	6.4	74.3	0.7	0.63	0.49	7.6	79.05	40.49	17.8		
01/15/78	131.33	2.08	28.68	26.57	122.40	119.73	2.67		4350.2	35.6	187.4	2.09	32.5	379.0	3.8	0.80	0.62	9.6	78.91	40.82	17.4		
01/22/78	131.43	3.99	54.06	49.73	122.84	120.17	2.67		4433.8	83.6	199.3	3.29	51.4	598.6	6.0	0.54	0.37	5.8	79.17	41.00	17.7		
01/29/78	131.53	5.88	82.97	76.33	123.02	120.45	2.57		4487.2	53.5	190.5	0.22	3.5	39.9	0.4	0.61	0.58	6.8	79.55	40.80	17.9		
02/05/78	131.52	8.43	117.04	107.68	123.22	120.98	2.24		4567.8	100.5	192.7	0.83	13.2	150.5	1.5	0.35	0.24	3.8	79.97	41.01	18.0		
02/12/78	131.60	8.17	113.41	104.34	123.40	121.50	1.90		4689.3	101.5	194.9	1.28	20.6	232.1	2.3	0.67	0.48	7.4	79.94	41.56	18.2		
02/19/78	131.67	10.35	143.75	132.25	123.80	122.29	1.51		4844.3	155.0	196.2	2.76	44.8	500.5	5.0	0.71	0.52	6.4	80.04	42.25	18.7		
02/26/78	131.75	12.44	172.67	158.96	123.96	122.93	1.05		4971.8	127.5	200.8	0.00	0.0	0.0	0.0	1.00	0.73	12.1	79.94	42.99	19.3		
03/05/78	131.82	15.00	208.26	191.60	124.55	124.03	0.52		5195.4	223.7	205.4	3.33	55.7	603.8	6.0	0.80	0.58	9.8	80.15	43.88	19.9		
03/12/78	131.86	17.39	241.48	222.18	124.70	124.71	-0.01	4.98	5336.3	140.9	206.3	0.93	15.9	188.6	1.7	0.74	0.54	9.2	80.47	44.24	20.8		
03/19/78	131.90	18.82	281.28	240.37	124.74	125.04	-0.30	10.24	5404.3	66.0	209.6	0.37	6.4	67.1	0.7	1.10	0.92	16.0	80.84	44.40	21.3		
03/26/78	131.94	20.28	281.63	259.10	124.88	125.12	-0.46	14.35	5422.2	17.9	210.0	0.00	0.0	0.0	0.0	1.39	1.17	20.4	80.95	44.17	21.5		
04/02/78	131.80	21.79	302.53	278.33	124.52	125.20	-0.68	15.88	5436.5	-17.3	210.3	0.00	0.0	0.0	0.0	1.49	1.25	21.9	81.01	44.20	21.4		
04/09/78	131.77	16.70	231.80	213.26	124.40	124.87	-0.47	17.07	5368.8	-70.7	208.9	0.00	0.0	0.0	0.0	1.73	1.45	25.5	81.03	43.94	21.5		
04/16/78	131.74	15.67	217.56	200.16	124.32	124.86	-0.54	12.04	5367.9	-0.9	208.9	0.54	9.4	97.9	1.0	1.62	1.33	23.1	81.03	43.84	21.1		
04/23/78	131.71	14.67	203.67	187.36	124.30	124.73	-0.43	11.99	5341.3	-28.7	208.4	0.10	1.7	18.1	0.2	1.99	1.63	28.4	80.94	43.80	21.1		
04/30/78	131.69	13.69	190.14	174.93	124.18	124.63	-0.45	10.50	5320.2	-21.1	208.0	0.00	0.0	0.0	0.0	2.05	1.68	29.2	80.79	43.84	21.1		
05/07/78	131.89	13.06	181.32	168.82	124.38	124.87	-0.49	9.45	5389.1	48.9	208.9	2.82	48.9	511.4	5.1	1.38	1.13	19.6	80.88	43.99	21.0		
05/14/78	131.80	19.55	271.39	249.67	124.42	125.08	-0.64	12.06	5410.0	40.9	209.8	0.28	4.9	50.8	0.5	1.79	1.47	25.6	80.94	44.13	21.2		
05/21/78	131.72	16.70	231.80	213.26	124.28	124.90	-0.64	14.78	5375.7	-34.3	209.1	0.29	5.1	52.6	0.5	1.80	1.53	26.7	80.77	44.13	21.4		
05/28/78	131.64	14.02	194.61	179.04	124.18	124.69	-0.51	12.46	5332.5	-43.3	208.2	0.06	1.0	10.9	0.1	1.97	1.67	29.2	80.59	44.10	21.3		
06/04/78	131.56	11.53	160.02	147.22	124.24	124.74	-0.50	10.05	5341.7	9.2	208.4	2.54	44.1	460.6	4.6	1.78	1.50	26.0	80.71	44.03	21.2		
06/11/78	131.58	9.23	128.21	117.95	124.40	124.49	-0.09	10.52	5291.2	-50.6	207.4	0.95	16.5	172.3	1.7	1.32	1.12	19.5	80.80	43.89	21.2		
06/18/78	131.62	9.79	135.89	125.02	124.38	124.30	0.08	8.18	5252.0	-39.1	206.6	0.08	1.4	14.5	0.1	1.98	1.80	31.1	80.81	43.69	21.0		
06/25/78	131.66	10.93	151.80	139.65	124.24	124.35	-0.11	6.71	5261.3	9.2	206.8	0.33	5.7	58.8	0.6	1.45	1.32	22.7	80.58	43.77	20.8		
07/02/78	131.70	12.13	168.41	154.94	124.32	124.37	-0.05	7.03	5264.7	3.5	206.8	0.00	0.0	0.0	0.0	2.10	1.91	32.9	80.54	43.83	20.9		
07/09/78	131.88	13.38	185.71	170.86	124.80	124.75	0.05	7.16	5343.4	78.7	208.4	2.91	50.2	527.7	5.3	1.74	1.58	27.3	80.68	44.08	20.9		
07/16/78	132.06	19.55	249.67	249.67	125.22	125.22	-0.42	10.81	5443.7	100.2	210.4	2.14	37.2	388.1	3.9	1.39							

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -3793986.2 C2 = 91936.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.298E-04 1/day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Sand Hill Discharge ac-feet	Effective Magnolia Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Magnolia Lake Acqifer Elevation elev	Floridan Acqifer Elevation ft	Floridan Acqifer Elevation ft
10/01/78	131.82	22.94	318.54	293.08	124.89	125.25	-0.36	23.17	321.7	5448.7	-54.2	210.5	0.40	7.1	72.5	0.7	0.91	0.69	12.2	82.35	42.89	21.1
10/08/78	131.76	17.39	241.48	222.16	124.80	124.93	-0.13	17.86	247.9	5382.7	-66.1	209.2	0.00	0.0	0.0	0.0	1.46	1.11	19.5	82.04	42.89	20.8
10/15/78	131.70	15.33	212.89	195.88	124.80	124.84	-0.04	12.90	179.0	5364.0	-18.7	208.8	0.01	0.2	1.8	0.0	1.13	0.86	15.0	82.08	42.76	20.7
10/22/78	131.65	13.38	185.71	170.86	124.58	124.72	-0.14	11.75	163.2	5337.9	-26.0	208.3	0.00	0.0	0.0	0.0	1.08	0.75	13.1	81.94	42.78	20.6
10/29/78	131.60	11.83	164.19	151.08	124.48	124.60	-0.12	10.32	143.3	5313.8	-24.1	207.8	0.10	1.7	18.1	0.2	1.07	0.78	13.2	81.88	42.72	20.6
11/05/78	131.54	10.35	143.75	132.25	124.40	124.46	-0.06	9.15	127.1	5284.8	-29.0	207.2	0.00	0.0	0.0	0.0	1.11	0.79	13.6	81.68	42.60	20.5
11/12/78	131.50	8.69	120.72	111.08	124.37	124.32	0.05	7.92	110.0	5255.5	-29.3	206.7	0.00	0.0	0.0	0.0	0.81	0.58	9.9	81.48	42.63	20.5
11/19/78	131.46	7.66	108.30	97.80	124.35	124.18	0.17	6.83	94.8	5226.0	-28.5	206.1	0.00	0.0	0.0	0.0	0.84	0.70	12.0	81.28	42.60	20.4
11/26/78	131.42	6.67	92.67	85.25	124.31	124.04	0.27	5.88	81.4	5198.5	-27.5	205.5	0.00	0.0	0.0	0.0	0.77	0.64	11.0	81.28	42.77	20.4
12/03/78	131.63	5.75	79.84	73.45	124.50	124.17	0.33	5.04	70.0	5223.8	25.3	206.0	2.84	48.6	515.0	5.1	0.82	0.88	11.7	81.23	42.84	20.3
12/10/78	131.67	11.23	155.88	143.41	124.42	124.35	0.07	5.79	80.4	5280.7	38.9	208.8	0.25	4.3	45.3	0.5	0.73	0.61	10.4	81.08	43.27	20.4
12/17/78	131.71	12.44	172.67	158.88	124.30	124.54	-0.24	7.01	97.4	5298.8	36.2	207.5	0.36	6.2	65.3	0.7	0.85	0.50	8.6	81.00	43.54	20.7
12/24/78	131.75	13.69	190.14	174.93	124.25	124.69	-0.44	8.53	118.5	5332.4	32.7	208.2	0.35	6.1	63.5	0.6	0.72	0.55	9.6	81.24	43.45	20.9
12/31/78	131.78	15.00	208.26	191.60	124.25	124.89	-0.64	10.04	136.5	5374.6	42.2	209.1	0.98	17.2	179.5	1.8	0.60	0.46	8.0	81.07	43.82	20.9
01/07/79	131.82	16.01	222.27	204.48	124.24	125.05	-0.81	12.39	172.1	5406.9	32.3	208.7	1.58	27.2	282.9	2.8	0.67	0.52	9.0	81.18	43.67	21.2
01/14/79	131.85	17.39	241.48	222.16	124.95	125.27	-0.32	14.54	201.9	5452.8	45.8	210.8	2.79	48.8	505.9	5.1	0.52	0.40	7.0	81.20	44.08	21.2
01/21/79	132.08	22.17	307.84	283.21	124.66	125.49	-0.83	18.21	252.8	5500.1	47.3	211.8	2.32	40.7	420.7	4.2	0.54	0.37	6.5	81.48	44.03	21.4
01/28/79	132.09	27.34	379.56	349.19	124.85	125.64	-0.79	22.87	317.5	5531.9	31.8	212.2	1.54	27.1	279.3	2.8	0.69	0.48	8.4	81.37	44.28	21.5
02/04/79	132.10	27.75	385.27	354.45	124.94	125.47	-0.53	26.54	388.6	5498.0	-36.6	211.5	0.48	8.1	87.0	0.9	0.77	0.53	9.4	81.23	44.24	21.7
02/11/79	132.14	28.16	391.01	359.73	125.04	125.67	-0.63	22.43	311.4	5537.5	41.4	212.3	1.10	19.4	199.5	2.0	0.55	0.38	6.7	81.33	44.34	21.6
02/18/79	132.18	29.83	414.24	391.10	125.04	125.53	-0.49	27.24	378.2	5509.3	-28.2	211.7	0.00	0.0	0.0	0.0	0.72	0.53	9.3	81.30	44.23	21.7
02/25/79	132.22	31.54	437.85	402.82	125.50	125.84	-0.34	23.88	331.6	5574.8	65.5	213.0	1.24	21.9	224.9	2.2	0.64	0.47	8.2	81.59	44.25	21.6
03/04/79	132.26	33.26	461.84	424.89	125.40	125.58	-0.18	32.30	448.5	5517.9	-25.8	211.9	0.00	0.0	0.0	0.0	0.69	0.65	11.5	81.27	44.31	21.8
03/11/79	132.18	35.02	488.18	447.27	125.18	125.98	-0.80	24.67	345.3	5604.0	88.1	213.8	1.00	17.7	181.3	1.8	1.08	0.77	13.7	81.48	44.52	21.7
03/18/79	132.07	30.68	428.00	391.92	125.07	125.23	-0.16	36.77	510.5	5444.2	-158.8	210.4	0.00	0.0	0.0	0.0	1.29	1.08	19.3	81.27	43.98	22.0
03/25/79	131.97	28.93	373.87	343.98	124.96	125.51	-0.55	17.46	242.5	5504.5	80.3	211.8	0.17	3.0	30.8	0.3	1.57	1.32	23.1	81.42	44.09	21.4
04/01/79	131.88	22.94	318.54	293.08	124.88	125.16	-0.28	23.34	324.1	5429.5	-75.0	210.1	0.00	0.0	0.0	0.0	1.51	1.27	22.4	81.11	44.04	21.5
04/08/79	131.89	19.55	271.38	249.67	125.01	125.37	-0.36	16.25	225.6	5474.4	44.9	211.0	3.23	56.6	585.7	5.9	1.37	1.15	20.2	81.27	44.10	21.4
04/15/79	131.90	19.91	278.49	254.37	125.04	125.22	-0.18	20.22	280.8	5443.3	-31.1	210.4	2.07	36.4	375.4	3.8	1.82	1.33	23.4	81.31	43.91	21.5
04/22/79	131.91	20.26	281.83	259.10	124.84	125.09	-0.25	17.36	241.4	5415.2	-28.1	209.9	0.00	0.0	0.0	0.0	1.70	1.39	24.4	81.11	43.97	21.3
04/29/79	131.92	20.86	286.81	283.88	124.82	125.37	-0.55	15.15	210.3	5474.5	59.3	211.0	2.48	43.4	449.7	4.5	1.45	1.19	20.8	81.24	44.13	21.3
05/06/79	131.92	21.03	292.02	288.65	124.79	125.26	-0.47	20.23	280.9	5451.3	-23.2	210.8	1.85	29.0	299.2	3.0	1.49	1.22	21.5	81.29	43.97	21.5
05/13/79	131.84	21.03	292.02	288.65	124.77	125.28	-0.51	18.08	251.0	5484.7	3.5	210.7	1.19	20.9	215.8	2.2	1.10	0.90	15.8	81.39	43.88	21.4
05/20/79	131.77	18.10	251.31	231.20	124.75	124.99	-0.24	18.39	255.3	5394.4	-60.3	209.4	0.41	7.2	74.3	0.7	1.53	1.30	22.8	81.50	43.49	21.3
05/27/79	131.69	15.67	217.56	200.18	124.72	124.84	-0.12	13.87	189.8	5363.4	-31.0	208.8	0.27	4.7	46.0	0.5	1.72	1.46	25.5	81.36	43.48	21.0
06/03/79	131.82	13.06	181.32	166.82	124.70	124.74	-0.04	11.72	182.7	5343.2	-20.2	208.4	1.05	18.3	180.4	1.9	1.59	1.35	23.5	81.37	43.38	21.0
06/10/79	131.58	10.93	151.80	139.65	124.65	124.48	0.17	10.80	147.2	5288.3	-58.0	207.3	0.00	0.0	0.0	0.0	1.80	1.53	26.6	81.21	43.27	20.9
06/17/79	131.53	9.79	135.89	125.02	124.40	124.38	0.02	8.06	111.9	5267.7	-20.5	206.9	0.49	8.5	88.9	0.9	1.42	1.29	22.3	81.38	43.00	20.7
06/24/79	131.49	8.43	117.04	107.68	124.38	124.40	-0.02	7.27	100.9	5272.2	4.4	207.0	2.28	39.3	417.4	4.1	1.61	1.47	25.3	81.29	43.12	20.5
07/01/79	131.45	7.41	102.82	94.59	124.33	124.23	0.10	7.43	103.2	5235.7	-38.4	208.3	0.97	16.7	175.9	1.8	1.64	1.49	25.7	81.32	42.90	20.8
07/08/79	131.45	6.44	89.38	82.23	124.32	124.01	0.31	6.17	85.8	5191.7	-44.0	205.4	0.48	8.3	87.0	0.9	1.87	1.70	29.2	81.44	42.57	20.4
07/15/79	131.45	6.44	89.38	82.23	124.34	123.91	0.43	4.85	67.4	5171.4	-20.3	204.9	0.50	8.6	90.7	0.9	1.57	1.43	24.4	81.41	42.50	20.2
07/22/79	131.46	6.44	89.38	82.23	124.47	123.98	0.49	4.29	59.6	5185.2	13.8	205.2	1.84	28.0	297.4	3.0	1.27	1.16	19.7	81.52	42.46	20.1
07/29/79	131.46	6.67	92.67	85.25	124.44	123.91	0.53	4.87	64.8	5170.8	-14.6	204.9	0.58	9.8	101.5	1.0	1.49	1.49	25.5	81.47	42.43	20.1
08/05/79	131.46	6.67	92.67	85.25	124.48	123.97	0.51	4.27	59.3	5184.0	13.5	205.2	1.81	27.5	291.9	2.9	1.47	1.34	22.8	81.53	42.45	20.1
08/12/79	131.51	6.67	92.67	85.25	124.40	124.26	0.14	4.94	64.4	5242.9	58.9	206.4	4.20	71.8	761.8	7.6	1.37	1.25	21.3	81.58	42.68	20.1
08/19/79	131.57	7.91	109.83	101.05	124.46	124.16	0.30	6.40	88.9	5222.7	-20.2	206.0	0.35	6.0	65.5	0.6	1.28	1.09	18.7	81.53	42.63	20.3
08/26/79	131.55	9.51	132.03	121.48	124.47	124.30	0.17	5.78	79.9	5252.1	-29.4	206.8	1.80	27.5	290.1	2.8	1.52	1.29	22.2	81.48	42.85	20.3
09/02/79	131.54	8.99	124.44	114.48	124.45	124.30	0.15	6.71	93.2	5250.1	-1.9	206.5	0.98	16.5	174.1	1.7	1.44	1.22	21.1	81.45	42.85	20.4
09/09/79	131.68	8.89	120.72	111.08	124.44	124.50	-0.06	6.85	92.3	5292.8	42.7	207.4	3.38	57.8	809.3	6.1	1.34	1.14	19.8	81.40	43.10	20.4
09/16/79	131.80	12.13																				

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin = 123.2 C1 = -3793968.2 C2 = 91899.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Predp. In/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coef. = 0.01		Gainesville Pan Evap. In/week	Magnolia Lake Evap. In/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day			
	Effective Discharge = 82%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Predp. ac-feet						Overland Runoff Volume ac-feet	Florida Aquifer Elevation elev				Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet		
	Sand Hill Elevation ft	Sand Hill Discharge cfs																			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet
01/06/80	131.82	22.56	313.17	298.12	125.20	125.35	-0.15	21.20	294.3	5471.1	-13.1	211.0	1.10	19.4	199.5	2.0	0.54	0.42	7.3	82.11	43.24	21.0
01/13/80	132.02	21.03	292.02	268.65	125.22	125.33	-0.11	19.90	278.3	5468.7	-4.3	210.9	1.50	26.4	272.0	2.7	0.35	0.27	4.7	82.19	43.14	21.1
01/20/80	132.01	24.91	345.84	318.17	125.24	125.45	-0.21	19.49	270.6	5490.9	24.2	211.4	0.22	3.9	39.9	0.4	0.55	0.38	6.7	82.12	43.33	21.0
01/27/80	132.01	24.51	340.32	313.10	125.33	125.64	-0.31	21.89	303.9	5631.2	40.2	212.2	3.25	57.2	589.3	5.9	0.90	0.82	10.9	82.43	43.20	21.1
02/03/80	132.00	24.51	340.32	313.10	125.36	125.28	0.10	26.46	367.4	5450.5	-80.7	210.8	0.13	2.3	23.6	0.2	0.64	0.44	7.8	82.39	42.87	21.2
02/10/80	132.00	24.12	334.83	308.05	125.31	125.40	-0.09	18.01	250.0	5480.5	30.1	211.2	0.12	2.1	21.8	0.2	0.78	0.54	9.4	82.68	42.72	20.8
02/17/80	132.01	24.12	334.83	308.05	125.28	125.41	-0.15	20.83	299.2	5483.0	2.4	211.2	0.61	10.7	110.6	1.1	0.58	0.42	7.5	82.70	42.71	20.8
02/24/80	132.01	24.51	340.32	313.10	125.21	125.46	-0.25	21.07	292.6	5493.4	10.5	211.4	1.13	19.9	204.9	2.0	0.67	0.64	11.2	82.60	42.86	20.8
03/02/80	132.02	24.51	340.32	313.10	125.19	125.36	-0.17	22.15	307.6	5472.6	-20.8	211.0	0.27	4.8	49.0	0.5	0.83	0.81	10.7	82.78	42.59	20.9
03/09/80	132.03	24.91	345.84	318.17	125.19	125.47	-0.28	20.05	278.3	5494.8	22.2	211.4	0.88	15.1	155.9	1.6	1.08	0.77	13.6	82.68	42.81	20.7
03/16/80	132.04	25.31	351.39	323.28	125.21	125.43	-0.22	22.29	309.5	5498.1	-8.6	211.3	0.83	14.6	150.5	1.5	1.19	1.00	17.6	82.67	42.78	20.9
03/23/80	132.05	26.71	366.97	328.41	125.14	125.39	-0.25	21.39	297.0	5477.8	-8.4	211.1	0.04	0.7	7.3	0.1	1.33	1.12	19.7	82.62	42.76	20.9
03/30/80	132.08	26.11	362.57	323.57	125.06	125.52	-0.44	20.55	285.3	5505.9	28.1	211.7	0.99	17.4	179.5	1.8	1.25	1.05	18.5	82.68	42.64	20.8
04/06/80	132.12	27.34	379.56	348.19	125.04	125.73	-0.69	23.50	326.3	5551.4	45.5	212.6	3.14	55.4	569.4	5.7	1.19	1.00	17.6	82.68	42.65	20.8
04/13/80	132.03	29.00	402.56	370.37	125.01	125.39	-0.38	29.05	403.3	5479.4	-71.9	211.1	0.15	2.7	27.2	0.3	1.44	1.18	20.9	82.99	42.40	21.0
04/20/80	131.95	25.31	351.39	323.28	124.98	125.45	-0.47	20.72	287.7	5491.9	12.5	211.4	0.89	15.7	161.4	1.6	1.37	1.12	19.8	83.04	42.42	20.7
04/27/80	131.87	22.17	307.84	283.21	124.94	125.13	-0.19	21.99	305.3	5423.6	-88.2	210.0	0.00	0.0	0.0	0.0	1.78	1.44	25.4	82.85	42.28	20.7
05/04/80	131.78	19.18	269.31	246.01	124.90	125.05	-0.16	15.79	219.3	5409.5	-14.2	209.8	0.02	0.4	3.6	0.0	1.38	1.13	19.8	82.73	42.33	20.5
05/11/80	131.83	16.01	222.27	204.49	124.86	125.08	-0.22	14.73	204.5	5413.8	4.4	209.8	2.29	40.0	415.3	4.2	1.35	1.11	19.3	82.73	42.35	20.5
05/18/80	131.87	17.74	246.37	226.68	124.91	125.05	-0.15	15.05	206.9	5409.1	-4.7	209.7	0.90	15.7	163.2	1.6	1.30	1.11	19.3	82.73	42.33	20.5
05/25/80	131.92	19.18	269.31	246.01	124.93	125.21	-0.28	14.70	204.1	5441.1	32.0	210.4	1.84	32.2	333.7	3.3	1.61	1.37	23.9	82.93	42.28	20.5
06/01/80	131.84	21.03	292.02	268.65	124.90	125.14	-0.24	17.20	238.9	5428.1	-15.0	210.1	0.03	0.5	5.4	0.1	1.67	1.42	24.9	82.69	42.45	20.5
06/08/80	131.76	18.10	251.31	231.20	124.80	124.94	-0.14	15.98	221.9	5383.7	-42.4	209.2	0.00	0.0	0.0	0.0	2.09	1.78	31.1	82.40	42.54	20.6
06/15/80	131.71	15.33	212.89	196.86	124.88	124.80	-0.12	12.98	180.0	5355.3	-28.4	208.7	0.21	3.7	38.1	0.4	1.75	1.59	27.8	82.16	42.64	20.5
06/22/80	131.67	13.69	190.14	174.93	124.85	124.73	-0.08	11.26	156.3	5340.2	-15.1	208.4	0.89	12.0	125.1	1.3	1.52	26.4	82.07	42.66	20.5	
06/29/80	131.83	12.44	172.87	158.88	124.85	124.71	-0.08	10.44	145.0	5335.8	-4.7	208.3	1.20	20.8	217.8	2.2	1.33	1.21	21.0	81.97	42.74	20.5
07/06/80	131.70	11.23	155.88	143.41	124.79	124.56	0.23	10.20	141.7	5305.3	-30.2	207.7	0.78	13.5	141.4	1.4	1.67	1.52	26.4	81.63	42.94	20.6
07/13/80	131.77	13.38	170.88	154.98	124.81	124.61	0.37	8.78	121.9	5315.3	10.0	207.9	0.70	12.1	126.9	1.3	2.02	1.84	31.8	81.73	42.99	20.6
07/20/80	131.85	15.67	217.56	200.16	125.08	124.78	0.28	9.22	126.1	5349.7	34.3	208.6	0.88	11.4	119.7	1.2	1.89	1.72	29.8	81.70	43.06	20.6
07/27/80	131.93	18.48	256.27	235.77	125.20	125.49	-0.29	10.95	152.0	5500.8	-125.0	211.6	5.74	99.8	1040.9	10.4	1.40	1.27	22.1	81.97	43.53	20.7
08/03/80	132.00	21.41	297.26	273.48	125.20	125.14	0.06	22.94	318.5	5428.6	-74.2	210.1	0.97	17.1	175.9	1.8	1.67	1.52	26.6	82.04	43.10	21.3
08/10/80	131.99	24.12	334.83	308.05	125.21	125.35	-0.14	16.02	222.4	5470.9	44.3	211.0	0.38	6.7	68.9	0.7	1.74	1.58	27.7	82.03	43.32	20.9
08/17/80	131.99	23.72	329.37	303.02	125.21	125.38	-0.17	19.88	278.1	5475.6	4.7	211.1	0.99	17.4	179.5	1.8	1.38	1.16	20.3	82.21	43.17	21.1
08/24/80	131.90	23.72	329.37	303.02	125.14	125.40	-0.26	20.34	282.4	5481.1	5.5	211.2	1.33	23.4	241.2	2.4	1.33	1.13	19.9	82.23	43.17	21.0
08/31/80	131.81	20.28	281.63	259.10	124.92	125.09	-0.17	20.88	290.0	5415.5	-85.6	209.9	0.48	8.4	87.0	0.9	1.54	1.31	23.0	82.12	42.97	21.0
09/07/80	131.72	17.04	236.82	217.69	124.80	124.98	-0.18	15.17	210.6	5391.5	-23.9	209.4	0.55	9.6	99.7	1.0	1.40	1.19	20.6	82.13	42.85	20.8
09/14/80	131.86	14.02	194.61	179.04	124.73	124.90	-0.17	13.48	161.1	5353.9	-37.6	208.6	0.38	6.6	66.9	0.7	1.22	0.93	16.2	81.91	42.86	20.7
09/21/80	131.81	12.13	168.41	154.94	124.78	124.69	0.07	11.18	155.2	5332.7	-21.2	208.2	0.82	14.3	148.7	1.5	1.21	0.92	16.0	81.80	42.79	20.7
09/28/80	131.56	10.64	147.75	135.93	124.78	124.56	0.20	10.08	139.7	5304.9	-27.8	207.7	0.85	11.3	117.9	1.2	1.21	0.92	16.0	81.71	42.85	20.6
10/05/80	131.50	9.23	128.21	117.95	124.63	124.50	0.13	8.78	121.8	5293.1	-11.8	207.4	1.48	25.3	284.7	2.8	1.18	0.90	15.5	81.62	42.89	20.5
10/12/80	131.45	7.66	106.90	97.80	124.50	124.24	0.26	8.28	114.6	5299.2	-53.9	206.3	0.00	0.0	0.0	0.0	1.28	0.98	16.6	81.58	42.88	20.5
10/19/80	131.40	6.44	89.38	82.23	124.38	124.05	0.33	6.28	87.2	5199.0	-40.2	205.5	0.00	0.0	0.0	0.0	1.22	0.87	14.9	81.46	42.95	20.3
10/26/80	131.35	5.31	73.74	67.84	124.35	123.95	0.39	5.08	70.2	5180.1	-18.9	205.1	0.80	13.7	145.1	1.5	0.94	0.67	11.4	81.18	42.78	20.2
11/02/80	131.30	4.28	59.41	54.66	124.30	123.95	0.45	4.53	62.9	5158.2	-22.0	204.7	0.75	12.8	138.0	1.4	0.83	0.45	7.6	81.22	42.63	20.3
11/09/80	131.32	3.35	46.45	42.73	124.22	123.68	0.54	3.94	54.6	5123.1	-35.1	204.0	0.32	5.5	58.0	0.6	0.75	0.53	9.1	81.18	42.50	20.1
11/16/80	131.31	3.71	51.46	47.35	124.28	123.55	0.73	2.99	41.6	5097.7	-25.4	203.4	0.00	0.0	0.0	0.0	0.79	0.66	11.1	81.19	42.37	20.0
11/23/80	131.31	3.52	48.93	45.01	124.24	123.52	0.72	2.29	31.8	5092.2	-5.5	203.3	0.53	9.0	96.1	1.0	0.82	0.51	8.7	81.13	42.39	19.9
11/30/80	131.30	3.52	48.93	45.01	124.22	123.52	0.70	2.14	29.6	5091.6	-0.5	203.3	0.58	9.8	105.2	1.1	0.49	0.41	6.9	81.05	42.47	19.9
12/07/80	131.30	3.35	46.45	42.73	124.18	123.44	0.74	2.12	29.4	5075.2	-16.9	203.0	0.00	0.0	0.0	0.0	0.70	0.58	9.8	81.11	42.33	19.9
12/14/80	131.28	3.35	46.45	42.73	124.12	123.40	0.72	1.63	22.7	5088.7	-8.5	202.8	0.00	0.0	0.0	0.0	0.67	0.52	8.7	80.88	42.52	19.8</

MAGNOLIA LAKE LONG--TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241863.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -379366.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week		Change in Magnolia Volume During Week	Magnolia Surface Area	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 /day			
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Volume at Start of Week ac-feet					Magnolia Volume During Week ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
04/05/81	131.64	11.83	164.19	151.06	124.54	124.56	-0.02	8.75	121.5	5305.0	0.2	207.7	0.68	11.4	119.7	1.2	1.44	1.21	20.9	80.72	43.64	21.0	
04/12/81	131.55	11.53	160.02	147.22	124.45	124.48	-0.03	8.78	121.6	5287.9	-17.0	207.3	0.02	0.3	3.6	0.0	1.55	1.27	22.0	80.50	43.97	21.0	
04/19/81	131.46	8.98	124.44	114.46	124.30	124.28	0.02	8.04	111.7	5248.7	-41.2	206.5	0.00	0.0	0.0	0.0	1.62	1.33	22.9	80.41	43.67	21.0	
04/26/81	131.37	6.67	92.67	85.25	124.18	124.08	0.10	6.53	90.7	5206.2	-40.5	205.7	0.38	6.5	68.9	0.7	1.52	1.25	21.4	80.31	43.78	20.9	
05/03/81	131.28	4.68	64.98	59.78	124.10	123.79	0.31	5.27	73.1	5146.2	-60.0	204.4	0.00	0.0	0.0	0.0	1.84	1.51	25.9	79.80	43.99	20.8	
05/10/81	131.20	3.00	41.65	38.32	123.84	123.51	0.33	3.62	50.2	5098.8	-57.4	203.3	0.05	0.9	9.1	0.1	1.84	1.51	25.7	79.45	44.06	20.8	
05/17/81	131.13	1.79	24.80	22.82	123.77	123.24	0.53	2.04	28.3	5033.7	-55.1	202.1	0.00	0.0	0.0	0.0	2.01	1.71	28.9	79.45	43.79	20.7	
05/24/81	131.06	0.95	13.22	12.16	123.66	123.02	0.64	0.27	3.7	4886.5	-44.2	201.2	0.00	0.0	0.0	0.0	2.25	1.91	32.2	79.22	43.80	20.4	
05/31/81	131.00	0.34	4.73	4.36	123.60	122.86	0.74			4658.9	-30.6	200.6	0.78	13.1	141.4	1.4	2.04	1.73	29.1	79.25	43.62	20.3	
06/07/81	130.95				123.44	122.74	0.70			4633.6	-25.4	200.0	1.37	22.9	248.4	2.5	2.15	1.83	30.5	79.23	43.51	20.2	
06/14/81	130.80				123.38	122.67	0.71			4620.5	-13.1	199.8	1.92	32.0	348.2	3.5	1.88	1.71	28.5	79.19	43.49	20.1	
06/21/81	130.66				123.30	122.67	0.63			4619.6	-0.9	199.7	2.77	46.1	502.3	5.0	2.11	1.92	32.0	79.15	43.52	20.1	
06/28/81	130.69				123.22	122.92	0.70			4699.2	-30.4	199.1	0.73	12.2	132.4	1.3	1.57	1.43	23.8	79.09	43.43	20.1	
07/05/81	130.92				123.11	122.28	0.83			4642.8	-46.4	198.1	0.00	0.0	0.0	0.0	1.75	1.59	26.4	79.00	43.29	20.0	
07/12/81	131.01				123.18	122.14	1.04			4614.2	-26.6	197.5	0.89	14.7	161.4	1.6	1.67	1.52	25.1	78.84	43.29	19.8	
07/19/81	131.11	0.04	0.62	0.57	123.26	122.04	1.22			4794.4	-19.9	197.1	1.24	20.4	224.9	2.2	1.56	1.42	23.4	78.62	43.22	19.7	
07/26/81	131.20	0.75	10.47	9.64	123.26	121.89	1.37			4784.9	-29.4	196.5	0.05	0.8	9.1	0.1	1.36	1.24	20.3	78.81	43.08	19.7	
08/02/81	131.22	1.79	24.80	22.82	123.37	121.86	1.51			4760.0	-4.9	196.4	0.78	12.4	137.8	1.4	1.48	1.35	22.1	79.04	42.82	19.5	
08/09/81	131.25	2.06	28.66	26.37	123.46	121.62	1.84			4772.0	12.0	196.6	1.81	28.6	328.2	3.3	1.87	1.70	27.8	79.03	42.69	19.4	
08/16/81	131.28	2.51	34.89	32.10	123.55	121.93	1.62			4773.3	1.3	196.6	0.22	3.6	39.9	0.4	1.10	0.94	15.3	79.09	42.84	19.5	
08/23/81	131.40	3.00	41.65	38.32	123.64	122.03	1.61			4793.0	19.7	197.1	0.78	12.8	141.4	1.4	0.96	0.82	13.4	79.08	42.95	19.5	
08/30/81	131.53	5.31	73.74	67.84	124.00	122.36	1.64			4858.9	65.9	196.5	1.89	31.0	342.7	3.4	1.21	1.03	16.9	79.28	43.08	19.5	
09/06/81	131.66	8.43	117.04	107.68	124.10	122.75	1.35			4834.9	78.1	200.1	0.28	4.6	50.8	0.5	1.21	1.03	17.0	79.35	43.40	19.7	
09/13/81	131.62	12.13	168.41	154.64	124.18	123.37	0.81			5080.4	125.5	202.7	0.41	6.8	74.3	0.7	1.34	1.02	17.0	79.46	43.60	20.0	
09/20/81	131.56	10.83	151.80	139.65	124.24	123.85	0.39	1.17	16.3	5157.9	97.5	204.7	0.68	11.1	119.7	1.2	1.38	1.05	17.7	79.54	44.30	20.5	
09/27/81	131.50	9.23	128.21	117.95	124.16	123.97	0.19	3.93	54.5	5183.5	25.8	205.2	0.00	0.0	0.0	0.0	1.30	0.99	16.9	79.63	44.34	20.9	
10/04/81	131.45	7.66	108.30	97.80	124.02	123.63	0.09	4.62	64.2	5175.3	-8.2	205.0	0.00	0.0	0.0	0.0	1.60	1.22	20.8	79.48	44.45	21.0	
10/11/81	131.40	6.44	89.38	82.23	123.90	123.67	0.03	4.40	61.1	5162.7	-12.6	204.6	0.13	2.2	23.6	0.2	1.17	0.99	15.2	79.31	44.56	21.0	
10/18/81	131.36	5.31	73.74	67.84	123.72	123.75	-0.03	4.06	56.3	5139.0	-23.7	204.3	0.00	0.0	0.0	0.0	1.17	0.83	14.2	79.19	44.57	21.1	
10/25/81	131.33	4.48	62.17	57.19	123.64	123.69	-0.05	3.42	47.5	5126.5	-12.5	204.0	0.65	11.1	117.9	1.2	1.11	0.79	13.4	79.32	44.37	21.0	
11/01/81	131.30	3.69	54.06	46.73	123.62	123.59	0.03	3.09	42.9	5104.8	-21.6	203.8	0.07	1.2	12.7	0.1	0.74	0.53	6.9	79.21	44.37	20.9	
11/08/81	131.34	3.35	46.45	42.73	123.64	123.65	-0.01	2.49	34.6	5118.7	13.9	203.9	2.00	33.9	362.7	3.6	0.91	0.85	11.0	79.20	44.45	20.9	
11/15/81	131.34	4.06	56.71	52.17	123.70	123.72	-0.02	2.86	39.9	5131.3	12.6	204.1	1.65	26.0	299.2	3.0	0.89	0.89	9.7	79.31	44.41	20.9	
11/22/81	131.35	4.06	56.71	52.17	123.64	123.64	0.00	3.22	44.7	5114.7	-16.6	203.6	0.50	8.5	90.7	0.9	0.89	0.74	12.6	79.20	44.43	20.9	
11/29/81	131.36	4.28	59.41	54.66	123.60	123.58	0.04	2.77	38.4	5098.0	-15.8	203.5	0.01	0.2	1.8	0.0	0.80	0.66	11.3	79.18	44.36	20.9	
12/06/81	131.37	4.46	62.17	57.19	123.60	123.61	-0.01	2.33	32.3	5108.4	10.4	203.7	0.95	16.1	172.3	1.7	0.81	0.67	11.4	79.03	44.58	20.8	
12/13/81	131.40	4.68	64.98	59.78	123.50	123.59	-0.09	2.62	36.4	5106.0	-3.4	203.8	0.13	2.2	23.6	0.2	0.83	0.49	8.2	78.95	44.64	21.0	
12/20/81	131.44	5.31	73.74	67.84	123.44	123.61	-0.17	2.53	35.1	5110.1	4.0	203.7	0.02	0.3	3.6	0.0	0.82	0.46	8.1	78.75	44.66	21.0	
12/27/81	131.48	6.20	86.15	79.26	123.50	123.79	-0.29	2.64	36.6	5146.8	36.7	204.4	1.08	18.0	192.2	1.9	0.36	0.28	4.7	79.13	44.66	21.1	
01/03/82	131.52	7.16	99.38	91.43	123.60	123.93	-0.33	3.63	50.4	5174.1	27.3	205.0	0.87	14.8	157.8	1.8	0.69	0.53	9.1	78.99	44.64	21.1	
01/10/82	131.56	8.17	113.41	104.34	123.58	124.04	-0.46	4.36	60.8	5197.9	23.8	205.5	0.58	9.9	105.2	1.1	0.73	0.56	9.6	78.88	45.16	21.3	
01/17/82	131.64	9.79	135.89	125.02	124.08	124.55	-0.47	5.03	69.8	5302.3	104.4	207.6	4.08	69.9	739.6	7.4	0.56	0.39	6.6	79.05	45.50	21.4	
01/24/82	131.70	11.53	160.02	147.22	124.22	124.53	-0.31	6.65	120.0	5298.3	-4.1	207.5	0.00	0.0	0.0	0.0	0.79	0.55	9.4	79.34	45.19	21.8	
01/31/82	131.76	13.39	185.71	170.86	124.24	124.63	-0.39	8.47	117.6	5319.5	21.2	207.9	0.00	0.0	0.0	0.0	0.87	0.60	10.4	79.48	45.17	21.7	
02/07/82	131.82	15.33	212.89	195.86	124.38	124.91	-0.53	9.42	130.8	5377.0	57.8	209.1	1.15	19.9	208.5	2.1	0.66	0.46	7.9	79.34	45.57	21.7	
02/14/82	131.79	17.39	241.48	222.16	124.44	125.08	-0.62	12.54	174.1	5406.5	32.5	209.8	0.77	13.4	139.6	1.4	0.66	0.48	8.4	79.29	45.77	22.0	
02/21/82	131.76	16.35	227.02	208.86	124.42	125.19	-0.77	14.73	204.5	5436.1	26.6	210.3	3.08	53.8	558.5	5.6	1.18	0.86	15.1	79.53	45.66	22.2	
02/28/82	131.74	15.33	212.89	195.86	124.30	124.85	-0.55	16.78	233.0	5365.1	-71.0	208.9	0.00	0.0	0.0	0.0	0.91	0.66	11.6	79.34	45.51	22.2	
03/07/82	131.72	14.67	203.67	187.38	124.40	125.00	-0.60	11.82	164.1	5397.6	32.5	209.5	2.27	39.5	411.6	4.1	0.96	0.72	12.5	79.73	45.27	21.9	
03/14/82	131.74	14.02	194.61	179.04	124.32	124.75	-0.43	13.89	192.8	5344.3	-53.3	208.4	0.00	0.0	0.0	0.0	1.20	1.01	17.6	79.56	45.19	21.9	
03/21/82	131.76	14.67	203.67	187.38	124.26	124.75	-0.49	10.86	148.0	5345.1	0.8	208.5	0.07	1.2	12.7	0.1	1.25	1.05	18.2	79.50	45.25	21.7	
03/28/82	131.78	15.33	212.89	195.86	124.26	125.01	-0.75	10.70	146.5	5398.8	53.7	209.5	2.										

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.06 C4 = -4.57				Hmin= 123.2 C1 = -3703986.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet		Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakage = 3.29E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Surface Area at Start of Week ac-feet					Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																		
07/04/82	132.12	28.16	361.01	356.73	124.80	125.38	-0.58	26.07	362.0	5477.1	-50.9	211.1	0.05	0.9	9.1	0.1	1.71	1.56	27.5	80.50	44.69	22.1
07/11/82	132.14	29.00	402.56	370.37	124.86	125.67	-0.81	20.48	294.4	5537.2	60.2	212.3	0.73	12.8	132.4	1.3	1.13	1.03	18.1	80.76	44.60	21.9
07/18/82	132.17	29.83	414.24	361.10	124.78	125.65	-0.89	27.22	377.9	5534.5	-2.8	212.2	2.43	43.0	440.6	4.4	1.95	1.77	31.4	80.85	44.61	22.0
07/25/82	132.20	31.11	431.91	397.36	124.73	125.82	-1.09	26.87	373.0	5570.1	35.6	212.9	2.86	50.6	516.6	5.2	1.40	1.27	22.5	80.97	44.85	22.0
08/01/82	132.10	32.40	449.80	413.82	125.04	125.56	-0.52	31.62	439.0	5514.2	-55.9	211.8	0.74	13.1	134.2	1.3	1.43	1.30	23.1	81.08	44.46	22.0
08/08/82	132.14	28.18	361.01	358.73	125.20	125.58	-0.38	24.44	336.3	5519.0	4.8	211.9	1.47	25.9	286.6	2.7	1.40	1.27	22.5	81.13	44.45	21.8
08/15/82	132.18	29.83	414.24	361.10	125.54	125.55	-0.01	24.99	347.0	5512.2	-6.8	211.8	0.12	2.1	21.8	0.2	1.43	1.22	21.5	81.43	44.12	21.7
08/22/82	132.22	31.54	437.85	402.82	125.58	125.84	-0.26	24.21	336.1	5573.8	61.7	213.0	1.72	30.4	311.9	3.1	1.13	0.98	17.0	81.60	44.24	21.6
08/29/82	132.27	33.26	461.84	424.89	125.48	125.81	-0.33	32.18	446.5	5567.3	-6.5	212.9	2.87	50.9	520.4	5.2	1.28	1.09	19.3	81.69	44.12	21.6
09/05/82	132.32	35.46	482.29	452.91	125.34	125.72	-0.38	31.22	433.5	5549.3	-18.0	212.5	0.47	8.3	85.2	0.9	1.65	1.40	24.9	81.64	44.09	21.7
09/12/82	132.30	37.89	523.24	481.39	125.48	126.28	-0.80	26.77	396.4	5669.3	119.1	214.9	3.65	64.6	661.9	6.6	0.93	0.71	12.5	81.78	44.50	21.6
09/19/82	132.29	36.79	510.81	469.94	125.34	125.43	-0.09	45.00	624.6	5467.1	-181.2	211.3	0.79	14.1	143.3	1.4	1.46	1.11	19.9	81.89	43.54	22.1
09/26/82	132.27	36.34	504.92	464.25	125.32	126.24	-0.92	21.50	298.5	5660.5	173.4	214.7	2.09	38.8	379.0	3.8	0.86	0.67	11.8	82.09	44.15	21.2
10/03/82	132.28	35.46	482.29	452.91	125.32	125.30	0.02	45.00	624.8	5460.4	-200.1	210.8	0.46	8.1	81.8	0.8	1.12	0.85	15.2	82.21	43.09	21.9
10/10/82	132.17	35.02	486.16	447.27	125.26	126.05	-0.79	18.90	282.3	5618.4	158.1	213.9	0.51	9.0	92.5	0.9	1.18	0.90	15.8	82.16	43.89	21.0
10/17/82	132.08	31.11	431.91	397.36	125.14	125.19	-0.05	39.16	543.7	5435.9	-182.5	210.3	0.00	0.0	0.0	0.0	1.15	0.82	14.6	82.11	43.08	21.7
10/24/82	132.00	27.34	379.56	349.19	125.02	125.66	-0.64	16.77	232.9	5535.3	99.4	212.2	0.70	12.3	126.9	1.3	0.77	0.55	9.6	82.08	43.56	20.9
10/31/82	131.92	24.12	334.83	306.05	124.86	125.19	-0.33	26.97	374.5	5435.6	-99.5	210.3	0.00	0.0	0.0	0.0	0.93	0.68	11.7	82.03	43.16	21.4
11/07/82	131.92	21.03	292.02	268.65	125.06	125.34	-0.28	16.77	232.8	5468.6	32.9	210.9	1.51	26.5	273.8	2.7	0.90	0.64	11.2	82.06	43.29	21.0
11/14/82	131.92	21.03	292.02	268.65	125.02	125.17	-0.15	19.68	273.2	5432.7	-36.1	210.2	0.14	2.5	25.4	0.3	0.90	0.75	13.1	82.08	43.10	21.1
11/21/82	131.92	21.03	292.02	268.65	124.92	125.21	-0.29	16.51	229.2	5441.5	8.8	210.4	0.00	0.0	0.0	0.0	0.67	0.56	9.7	81.98	43.24	20.9
11/28/82	131.92	21.03	292.02	268.65	124.88	125.20	-0.32	17.29	239.3	5438.9	-2.5	210.3	0.00	0.0	0.0	0.0	0.75	0.62	10.9	82.01	43.19	21.0
12/05/82	131.92	21.03	292.02	268.65	124.82	125.19	-0.37	17.02	236.3	5436.8	-2.2	210.3	0.00	0.0	0.0	0.0	0.93	0.77	13.5	81.90	43.30	21.0
12/12/82	131.90	21.03	292.02	268.65	124.84	125.30	-0.46	16.84	233.6	5459.6	22.9	210.7	0.88	15.4	159.6	1.6	0.59	0.45	8.0	82.14	43.16	21.0
12/19/82	131.89	20.28	281.63	259.10	124.74	125.20	-0.46	18.83	261.4	5438.0	-21.6	210.3	0.54	9.5	97.9	1.0	0.65	0.50	8.8	81.90	43.30	21.0
12/26/82	131.88	19.91	276.49	254.37	124.72	125.14	-0.42	16.94	235.2	5426.6	-11.3	210.1	0.00	0.0	0.0	0.0	0.70	0.54	8.4	81.77	43.37	21.0
01/02/83	131.87	19.55	271.39	249.67	124.78	125.15	-0.39	16.03	222.5	5429.4	-1.7	210.1	0.08	1.4	14.5	0.1	0.44	0.34	5.9	81.81	43.35	21.0
01/09/83	131.80	19.18	266.31	245.01	124.78	125.19	-0.41	16.18	224.4	5435.6	7.3	210.3	0.74	13.0	134.2	1.3	0.49	0.38	6.6	81.77	43.42	21.0
01/16/83	131.72	16.70	231.80	213.26	124.66	124.96	-0.30	16.75	232.5	5367.9	-47.7	209.3	0.00	0.0	0.0	0.0	0.61	0.42	7.4	81.61	43.35	21.1
01/23/83	131.64	14.02	194.61	179.04	124.66	124.91	-0.25	13.29	183.7	5377.9	-10.0	209.1	1.13	19.7	204.9	2.0	0.51	0.35	6.1	81.72	43.19	20.9
01/30/83	131.56	11.53	160.02	147.22	124.68	124.73	-0.05	12.56	174.8	5340.4	-37.4	208.4	0.98	17.1	177.7	1.8	0.65	0.45	7.8	81.70	43.03	20.9
02/06/83	131.67	9.23	128.21	117.95	124.74	124.81	0.13	10.45	145.1	5314.5	-25.9	207.8	1.90	33.0	344.5	3.4	1.21	0.83	14.5	81.88	42.73	20.7
02/13/83	131.78	12.44	172.67	158.96	124.88	124.82	0.06	9.19	127.5	5368.3	43.8	208.7	2.12	36.7	364.4	3.8	0.80	0.44	7.6	82.00	42.61	20.5
02/20/83	131.89	16.01	222.27	204.49	124.84	124.96	-0.12	11.42	156.6	5368.6	30.3	209.3	0.80	13.9	145.1	1.5	0.81	0.59	10.3	81.94	43.02	20.6
02/27/83	132.00	19.91	276.49	254.37	124.74	125.17	-0.43	13.28	184.4	5431.5	42.9	210.2	0.28	4.9	50.8	0.5	0.82	0.67	11.7	82.06	43.09	20.8
03/06/83	132.12	24.12	334.83	308.05	124.86	125.42	-0.56	16.41	227.6	5485.2	53.7	211.3	0.36	6.3	65.3	0.7	0.98	0.72	12.5	82.15	43.27	20.9
03/13/83	132.19	29.00	402.56	370.37	124.84	125.87	-1.03	21.30	295.7	5580.5	95.3	213.1	2.88	52.5	540.4	5.4	1.09	0.92	16.1	82.28	43.59	21.1
03/20/83	132.28	31.97	443.81	408.31	125.32	125.65	-0.33	33.14	480.1	5532.9	-47.6	212.2	2.20	39.1	396.9	4.0	1.17	0.98	17.5	82.74	42.91	21.4
03/27/83	132.34	35.02	486.16	447.27	125.30	125.96	-0.66	26.67	370.3	5600.4	67.5	213.5	1.54	27.2	279.3	2.8	1.24	1.04	18.4	82.86	43.08	21.0
04/03/83	132.42	38.58	535.75	492.89	125.18	125.75	-0.57	36.20	502.6	5555.1	-45.3	212.6	0.31	5.5	56.2	0.6	1.37	1.15	20.5	82.99	42.76	21.2
04/10/83	132.41	42.24	586.41	539.50	125.20	126.37	-1.17	29.54	410.2	5687.1	132.0	215.2	2.10	37.2	360.8	3.6	1.19	0.98	17.3	83.10	43.27	21.0
04/17/83	132.41	41.78	580.03	533.62	125.12	125.85	-0.73	45.00	624.6	5576.2	-110.9	213.1	1.31	23.5	237.5	2.4	1.84	1.34	24.1	83.17	42.68	21.5
04/24/83	132.40	41.78	580.03	533.62	125.22	126.36	-1.16	32.51	451.3	5688.8	112.6	215.3	3.85	68.4	698.1	7.0	1.65	1.35	24.0	83.55	42.83	21.0
05/01/83	132.40	41.32	573.65	527.76	125.14	125.71	-0.57	45.00	624.6	5546.4	-142.4	212.5	0.00	0.0	0.0	0.0	1.84	1.34	24.1	83.70	42.01	21.3
05/08/83	132.32	41.32	573.65	527.76	125.06	126.22	-1.16	28.39	394.1	5654.5	106.1	214.6	1.00	17.7	181.3	1.8	1.88	1.38	24.4	83.65	42.57	20.8
05/15/83	132.23	37.48	520.13	478.52	124.96	125.32	-0.36	45.00	624.8	5463.0	-191.5	210.8	0.04	0.7	7.3	0.1	1.84	1.39	24.9	83.65	41.67	21.1
05/22/83	132.15	33.70	467.89	430.46	124.88	126.13	-1.25	19.14	286.7	5635.8	172.8	214.2	2.81	49.4	509.5	5.1	1.75	1.49	28.1	83.39	42.74	20.3
05/29/83	132.06	30.05	417.17	363.79	124.78	124.96	-0.20	42.18	566.6	5389.1	-248.7	208.3	0.26	4.6	47.1	0.5	1.90	1.62	28.8	83.30	41.66	21.1
06/05/83	131.97	26.52	368.21	338.75	124.80	125.81	-0.81	13.31	184.8	5524.4	136.3	212.0	1.11	19.4	201.3	2.0	1.34	1.14	19.9	83.57	42.03	20.1
06/12/83	131.89	22.67	317.47	292.07	124.98	125.41	-0.45	25.63	355.9	5483.0	-41.3	211.2	3.54	62.5	641.9	6.4	1.61	1.47	25.9	83.33	42.06	20.6
06/19/83	131.78</																					

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin= 123.2 C1 = -378386.2 C2 = 91836.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day				
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs						Magnolia Discharge ac-feet	Drainage Area Pre-dip. ac-feet				Overland Runoff Volume ac-feet	Magnolia Aquifer Elevation elev	Florida Aquifer Elevation ft	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet																			
10/02/83	132.30	34.79	483.10	444.45	125.28	125.98	-0.70	20.83	289.2	5580.0	118.4	213.5	0.00	0.0	0.0	1.24	0.94	18.6	83.79	42.17	20.3		
10/09/83	132.24	36.79	510.81	469.94	125.22	125.67	-0.45	35.97	469.4	5538.2	-80.8	212.3	0.31	5.5	56.2	0.6	1.23	0.93	16.6	83.74	41.93	20.8	
10/16/83	132.18	34.14	473.86	436.04	125.24	125.83	-0.59	27.34	379.6	5571.5	33.3	213.0	0.65	11.5	117.9	1.2	1.22	0.87	15.3	83.79	42.04	20.5	
10/23/83	132.12	31.54	437.85	402.82	125.16	125.53	-0.37	31.82	441.9	5508.8	-62.7	211.7	0.40	7.1	72.5	0.7	0.88	0.61	10.8	83.66	41.67	20.7	
10/30/83	132.08	29.00	402.58	370.37	125.12	125.56	-0.44	23.83	330.8	5515.6	6.8	211.9	0.00	0.0	0.0	0.0	0.89	0.70	12.4	83.60	41.98	20.4	
11/06/83	132.00	28.52	398.21	338.75	125.14	125.44	-0.30	24.60	341.8	5489.4	-28.2	211.3	0.37	6.5	67.1	0.7	0.80	0.57	10.0	83.70	41.74	20.5	
11/13/83	131.94	24.12	334.83	308.05	125.12	125.40	-0.28	21.73	301.7	5480.0	-9.4	211.2	0.88	11.6	119.7	1.2	0.58	0.46	8.2	83.63	41.77	20.4	
11/20/83	131.97	21.79	302.53	278.33	125.28	125.46	-0.18	20.77	288.4	5494.5	14.5	211.4	2.80	49.3	507.7	5.1	0.84	0.53	9.3	83.74	41.72	20.4	
11/27/83	132.00	22.94	318.54	293.06	125.32	125.28	0.04	22.27	309.2	5456.0	-38.5	210.7	0.46	8.1	83.4	0.8	0.64	0.62	11.0	83.59	41.69	20.4	
12/04/83	132.04	24.12	334.83	306.05	125.28	125.44	-0.16	18.50	256.9	5488.9	32.9	211.3	0.47	8.3	85.2	0.9	0.49	0.41	7.1	83.65	41.78	20.3	
12/11/83	132.05	25.71	356.87	328.41	125.32	125.47	-0.15	21.66	301.0	5496.6	6.7	211.5	0.33	5.8	56.6	0.6	0.50	0.39	6.8	83.71	41.78	20.4	
12/18/83	132.08	26.11	362.57	333.57	125.22	125.61	-0.39	22.36	310.7	5525.7	30.1	212.1	1.73	30.5	313.7	3.1	0.44	0.34	6.0	83.67	41.94	20.4	
12/25/83	132.14	26.52	368.21	338.75	125.08	125.40	-0.34	25.79	358.1	5481.6	-44.1	211.2	0.07	1.2	12.7	0.1	0.41	0.32	5.6	83.49	41.91	20.5	
01/01/84	132.22	29.83	414.24	381.10	125.32	126.02	-0.70	20.83	290.8	5612.1	130.6	213.8	3.46	60.9	627.4	6.3	0.49	0.38	6.8	83.80	42.42	20.4	
01/08/84	132.20	33.26	461.84	424.89	125.28	125.39	-0.11	38.10	529.0	5478.1	-134.0	211.1	0.01	0.2	1.8	0.0	0.67	0.52	9.2	83.84	41.54	20.9	
01/15/84	132.18	32.31	448.60	412.71	125.28	125.91	-0.63	20.59	285.8	5589.8	111.7	213.3	0.43	7.6	78.0	0.8	0.27	0.19	3.3	84.00	41.91	20.2	
01/22/84	132.15	31.36	436.47	400.64	125.28	125.46	-0.18	34.54	479.6	5494.2	-95.6	211.4	0.44	7.8	79.8	0.8	0.38	0.28	4.7	83.93	41.53	20.6	
01/29/84	132.19	30.43	422.46	388.66	125.28	125.74	-0.46	22.23	308.7	5552.0	57.8	212.6	0.31	5.5	56.2	0.6	0.65	0.45	7.9	84.20	41.53	20.3	
02/05/84	132.11	29.50	408.56	376.80	125.24	125.47	-0.23	29.13	404.5	5496.5	-56.5	211.5	0.06	1.1	10.9	0.1	0.79	0.55	9.7	84.24	41.23	20.4	
02/12/84	132.14	28.56	398.78	365.04	125.16	125.57	-0.41	22.37	310.6	5517.6	22.1	211.9	0.00	0.0	0.0	0.0	0.85	0.69	12.2	84.14	41.43	20.1	
02/19/84	132.18	29.94	415.70	382.45	125.18	125.66	-0.50	24.83	344.8	5535.6	18.0	212.3	0.80	10.8	108.8	1.1	0.88	0.63	11.1	84.06	41.60	20.3	
02/26/84	132.21	31.32	434.88	400.09	125.34	125.68	-0.34	27.01	375.0	5582.5	48.9	213.2	2.89	51.1	524.1	5.2	1.10	0.80	14.2	84.28	41.60	20.4	
03/04/84	132.24	32.72	454.30	417.98	125.34	125.80	-0.46	33.43	464.2	5523.7	-58.8	212.0	1.21	21.5	219.4	2.2	1.22	0.89	15.8	84.29	41.31	20.5	
03/11/84	132.23	34.14	473.96	436.04	125.42	125.90	-0.48	25.55	354.8	5567.4	63.7	213.3	0.98	17.5	179.5	1.8	1.12	0.94	16.6	84.30	41.60	20.2	
03/18/84	132.22	33.70	467.89	430.46	125.36	125.54	-0.18	34.17	474.4	5510.3	-77.0	211.8	0.25	4.4	45.3	0.5	1.17	0.98	17.5	84.41	41.13	20.5	
03/25/84	132.21	33.26	461.84	424.89	125.28	125.82	-0.54	24.00	333.3	5569.1	58.7	212.9	0.31	5.5	56.2	0.6	1.27	1.07	18.8	84.46	41.35	20.1	
04/01/84	132.20	32.83	455.81	418.34	125.36	125.71	-0.35	31.48	437.1	5546.0	-23.0	212.5	1.69	30.0	306.5	3.1	1.21	1.02	18.0	84.40	41.31	20.3	
04/08/84	132.46	32.40	448.80	413.82	125.34	125.85	-0.51	28.34	393.5	5576.6	30.6	213.1	2.63	46.6	478.9	4.8	1.43	1.17	20.8	84.78	41.08	20.3	
04/15/84	132.42	44.08	612.09	563.12	125.24	126.24	-1.00	32.57	452.2	5659.4	82.8	214.7	0.94	6.0	61.7	0.8	1.00	0.82	14.6	85.00	41.24	20.2	
04/22/84	132.38	42.24	588.41	539.50	125.16	125.69	-0.50	45.00	624.8	5535.1	-124.3	212.2	0.04	0.7	7.3	0.1	1.32	1.08	19.4	84.88	40.77	20.4	
04/29/84	132.34	40.40	560.98	516.08	125.14	126.15	-1.01	28.95	374.2	5640.4	105.3	214.3	0.25	4.4	45.3	0.5	1.48	1.21	21.5	84.76	41.39	20.0	
05/06/84	132.30	38.59	536.75	492.89	125.08	125.47	-0.39	43.02	567.3	5494.7	-145.7	214.4	0.26	4.8	47.1	0.5	1.77	1.45	25.9	84.77	40.70	20.5	
05/13/84	132.24	36.79	510.81	469.94	124.88	126.00	-1.02	22.29	309.4	5606.5	113.8	213.7	0.00	0.0	0.0	0.0	1.79	1.52	26.6	84.43	41.57	19.9	
05/20/84	132.19	34.25	475.46	437.44	124.78	125.35	-0.57	37.51	520.7	5471.3	-137.3	211.0	0.00	0.0	0.0	0.0	2.21	1.88	33.5	84.20	41.15	20.5	
05/27/84	132.13	31.75	440.83	405.56	124.86	126.12	-1.14	19.82	276.6	5633.5	162.3	214.2	3.82	67.2	692.7	8.9	1.39	1.18	20.8	84.26	41.65	20.0	
06/03/84	132.07	29.31	408.94	374.38	124.86	125.19	-0.33	41.78	580.1	5436.1	-197.4	210.3	2.84	50.7	515.0	5.1	1.77	1.50	28.9	84.13	41.08	20.7	
06/10/84	132.06	28.93	373.87	343.98	124.74	125.46	-0.72	16.79	233.1	5494.4	58.2	211.4	0.00	0.0	0.0	0.0	2.05	1.87	32.7	83.86	41.60	19.9	
06/17/84	132.08	28.62	369.82	340.05	124.70	125.40	-0.70	22.25	298.9	5481.4	-12.9	211.2	0.04	0.7	7.3	0.1	1.53	1.39	24.5	83.74	41.66	20.3	
06/24/84	132.05	26.32	365.39	336.16	124.80	125.51	-0.71	20.92	290.4	5503.7	22.3	211.6	1.11	19.5	201.3	2.0	1.54	1.40	24.7	83.79	41.72	20.3	
07/01/84	132.04	26.01	361.17	332.28	124.76	125.53	-0.77	23.27	323.0	5508.2	4.5	211.7	1.85	32.6	335.5	3.4	1.27	1.16	20.4	83.70	41.63	20.4	
07/08/84	131.78	25.71	356.97	328.41	124.86	125.38	-0.42	23.78	329.9	5478.0	-32.3	211.1	0.84	14.8	152.3	1.5	1.66	1.51	26.7	83.65	41.73	20.4	
07/15/84	131.52	16.01	222.27	204.49	124.90	124.92	-0.02	20.37	282.9	5379.4	-98.5	209.1	1.40	24.6	253.9	2.5	1.56	1.42	25.0	83.63	41.29	20.3	
07/22/84	131.79	8.17	113.41	104.34	125.02	124.56	0.46	12.69	176.2	5304.1	-75.3	207.6	1.78	31.0	322.8	3.2	1.12	1.02	17.8	83.69	40.87	19.9	
07/29/84	132.06	16.35	227.02	208.68	124.88	124.86	0.12	8.72	121.1	5386.6	62.5	206.9	0.89	11.9	125.1	1.3	1.20	1.09	18.9	83.68	41.17	19.6	
08/05/84	132.02	28.52	398.21	338.75	125.16	125.65	-0.49	11.91	165.3	5533.2	168.6	212.2	1.92	33.4	348.2	3.5	1.51	1.37	23.9	83.80	42.05	19.9	
08/12/84	131.97	24.75	343.83	316.14	125.12	125.17	-0.05	28.71	370.8	5432.4	-100.8	210.2	0.00	0.0	0.0	0.0	1.70	1.45	25.6	83.48	41.69	20.6	
08/19/84	131.83	23.02	319.62	294.05	124.92	125.43	-0.51	16.48	228.8	5487.2	54.9	211.3	1.59	27.9	288.3	2.9	1.40	1.19	20.8	83.48	41.96	20.2	
08/26/84	131.88	21.33	298.21	272.51	124.92	125.24	-0.32	21.51	298.6	5446.8	-40.6	210.5	1.17	20.8	212.2	2.1	1.12	0.95	16.8	83.51	41.73	20.5	
09/02/84	131.84	19.09	273.42	251.55	124.84	125.00	-0.15	17.67	245.4	5414.6	-32.0	209.9	0.30	5.3	54.4	0.5	1.59	1.35	23.7	83.35	41.74	20.3	
09/09/84	131.88	18.10	251.31	231.20	124.82	125.02	-0.20	15.10	209.7	5399.9	-14.7	209.6											

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Hmin = 123.2 C1 = -379396.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day			
	Effective Discharge = 92%		Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet						Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev				Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet		
	Sand Hill Elevation ft	Sand Hill Discharge cfs																			Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet
01/06/85	131.72	14.28	198.22	182.96	124.58	124.84	-0.26	11.41	158.5	5363.3	5.2	206.8	0.54	9.4	97.9	1.0	0.65	0.50	8.7	82.57	42.47	20.4
01/13/85	131.67	14.02	194.61	179.04	124.48	124.79	-0.31	11.71	162.6	5352.2	-11.1	206.6	0.00	0.0	0.0	0.59	0.41	0.71	7.1	82.16	42.62	20.5
01/20/85	131.63	12.54	174.10	160.18	124.32	124.71	-0.39	11.08	153.9	5335.4	-18.8	208.3	0.24	4.2	43.5	0.4	0.60	0.41	7.2	82.25	42.46	20.5
01/27/85	131.56	11.13	154.52	142.18	124.28	124.59	-0.31	10.19	141.5	5310.3	-25.0	207.8	0.22	3.8	39.9	0.4	0.79	0.55	9.5	81.92	42.68	20.4
02/03/85	131.63	9.79	135.89	125.02	124.28	124.48	-0.20	9.00	124.9	5267.9	-22.4	207.3	0.35	6.1	63.5	0.6	0.73	0.50	8.7	82.02	42.46	20.5
02/10/85	131.67	11.23	155.88	143.41	124.36	124.64	-0.28	8.04	111.7	5320.6	32.7	208.0	1.53	26.4	277.4	2.8	0.63	0.46	7.9	81.81	42.63	20.3
02/17/85	131.65	12.44	172.67	158.86	124.34	124.64	-0.30	9.47	131.5	5321.2	0.6	208.0	0.29	5.0	52.6	0.5	0.93	0.68	11.8	81.77	42.67	20.6
02/24/85	131.64	11.93	165.59	152.35	124.30	124.57	-0.27	9.50	131.9	5307.7	-13.5	207.7	0.00	0.0	0.0	0.0	1.06	0.77	13.4	81.69	42.88	20.6
03/03/85	131.62	11.43	158.63	145.94	124.30	124.52	-0.22	8.88	123.3	5296.5	-11.2	207.5	0.06	1.0	10.9	0.1	1.14	0.83	14.4	81.63	42.89	20.6
03/10/85	131.59	10.93	151.80	139.65	124.20	124.43	-0.23	8.40	116.6	5278.1	-18.4	207.1	0.00	0.0	0.0	0.0	1.44	1.21	20.9	81.34	43.09	20.5
03/17/85	131.54	9.79	135.89	125.02	124.20	124.44	-0.24	7.66	106.3	5260.1	2.0	207.2	1.05	18.1	190.4	1.9	1.11	0.93	16.1	81.41	43.03	20.6
03/24/85	131.50	8.89	120.72	111.06	124.20	124.30	-0.10	7.74	107.4	5250.5	-29.7	206.6	0.28	4.5	47.1	0.5	1.22	1.02	17.7	81.16	43.14	20.6
03/31/85	131.46	7.66	106.30	97.80	124.10	124.11	-0.01	6.86	92.4	5212.0	-38.5	206.8	0.00	0.0	0.0	0.0	1.61	1.35	23.3	80.94	43.17	20.6
04/07/85	131.46	6.67	92.67	85.25	124.00	124.01	-0.01	5.44	75.5	5190.3	-21.7	205.3	0.55	9.4	99.7	1.0	1.52	1.25	21.4	80.90	43.11	20.5
04/14/85	131.45	6.56	91.35	84.04	124.06	124.26	-0.20	4.81	66.8	5243.2	52.9	206.4	4.01	68.6	727.1	7.3	1.41	1.16	19.8	81.00	43.28	20.4
04/21/85	131.45	6.46	90.04	82.83	124.06	124.04	0.02	6.41	89.0	5196.5	-46.7	205.5	0.14	2.4	25.4	0.3	1.60	1.31	22.6	80.99	43.14	20.6
04/28/85	131.44	6.30	88.73	81.64	124.00	123.86	0.14	4.99	69.2	5180.1	-36.4	204.7	0.00	0.0	0.0	0.0	2.02	1.66	28.4	80.85	43.21	20.5
05/05/85	131.44	6.30	87.44	80.44	123.82	123.84	-0.02	3.99	55.3	5158.0	-4.1	204.6	0.84	14.3	152.3	1.5	1.76	1.44	24.6	80.65	43.19	20.4
05/12/85	131.39	6.20	86.15	79.28	123.82	123.74	0.08	3.88	53.6	5135.5	-20.5	204.2	0.00	0.0	0.0	0.0	1.78	1.50	25.5	80.28	43.46	20.4
05/19/85	131.33	4.99	69.30	63.75	123.78	123.58	0.18	3.33	46.2	5102.8	-32.7	203.5	0.14	2.4	25.4	0.3	2.24	1.90	32.4	80.03	43.55	20.5
05/26/85	131.28	3.89	54.08	49.73	123.76	123.66	0.10	2.44	33.8	5119.0	16.2	203.9	2.39	40.5	433.4	4.3	1.67	1.42	24.1	79.95	43.71	20.5
06/02/85	131.22	2.92	40.49	37.25	123.60	123.40	0.20	2.88	40.1	5067.4	-51.6	202.8	0.06	1.0	10.9	0.1	2.03	1.73	29.3	79.65	43.75	20.6
06/09/85	131.29	2.06	26.86	26.37	123.46	123.18	0.28	1.39	19.4	5021.9	-45.6	202.1	0.18	2.7	29.0	0.3	2.28	2.07	35.1	79.43	43.75	20.5
06/16/85	131.36	3.17	44.02	40.50	123.62	123.41	0.21			5068.3	-46.4	202.6	2.85	47.9	516.8	5.2	1.75	1.59	26.8	79.59	43.82	20.4
06/23/85	131.43	4.46	62.17	57.19	123.50	123.36	0.11	1.42	19.7	5064.9	-3.4	202.6	0.22	3.7	39.9	0.4	1.59	1.45	24.5	79.38	44.01	20.5
06/30/85	131.50	5.96	82.97	76.33	123.58	123.78	-0.18	1.32	18.3	5140.2	75.3	204.3	3.23	54.8	585.7	5.9	1.47	1.34	22.6	79.45	44.31	20.6
07/07/85	131.58	7.96	106.30	97.80	123.68	123.84	-0.16	3.46	48.0	5155.7	15.5	204.6	0.49	8.3	88.9	0.9	1.46	1.33	22.6	79.28	44.56	20.9
07/14/85	131.62	9.23	128.21	117.96	123.62	123.95	-0.33	3.87	53.7	5180.0	24.3	205.1	0.25	4.3	45.3	0.5	1.52	1.38	23.6	79.28	44.70	21.0
07/21/85	131.68	10.93	151.80	139.65	123.94	124.19	-0.25	4.53	62.9	5229.2	49.2	206.1	0.78	13.3	141.4	1.4	1.36	1.24	21.2	79.35	44.85	21.2
07/28/85	131.74	12.75	176.98	162.82	124.20	124.38	-0.18	5.96	82.8	5267.8	38.5	206.9	0.04	0.7	7.3	0.1	1.34	1.22	20.9	79.46	44.92	21.3
08/04/85	131.80	14.67	203.67	187.36	124.32	125.01	-0.69	7.27	100.9	5396.5	130.8	209.5	4.48	77.2	812.4	8.1	1.25	1.14	19.6	79.60	45.41	21.5
08/11/85	132.01	16.70	231.80	213.26	124.66	125.03	-0.37	13.95	193.7	5402.9	4.4	209.6	1.33	23.2	241.2	2.4	1.27	1.08	18.8	79.66	45.15	22.0
08/18/85	132.21	24.31	337.57	310.57	124.78	125.67	-0.91	14.28	197.9	5536.5	135.6	212.3	3.41	59.6	618.3	6.2	1.41	1.20	20.9	80.09	45.58	21.9
08/25/85	132.42	32.83	455.81	419.34	125.04	125.96	-0.94	27.36	390.1	5804.8	66.3	213.6	3.44	60.9	623.8	6.2	1.18	1.00	17.7	80.47	45.52	22.3
09/01/85	132.62	42.01	593.22	536.56	125.00	126.36	-1.36	36.89	512.3	5886.5	81.7	215.2	5.15	91.7	833.9	9.3	1.40	1.19	21.2	81.03	45.33	22.4
09/08/85	132.62	51.81	716.52	659.20	125.30	126.43	-1.13	45.00	624.8	5701.2	14.7	215.5	0.89	16.0	161.4	1.6	1.08	0.82	14.7	81.42	45.01	22.5
09/15/85	132.63	51.73	718.17	660.72	125.36	126.44	-1.08	45.00	624.8	5703.3	2.1	215.5	0.41	7.4	74.3	0.7	1.43	1.09	19.5	81.64	44.81	22.4
09/22/85	132.63	51.84	719.82	662.23	125.30	126.57	-1.27	45.00	624.8	5730.6	27.3	216.1	1.42	25.5	257.5	2.6	1.17	0.99	16.0	81.73	44.94	22.3
09/29/85	132.63	51.96	721.47	663.75	125.22	126.56	-1.34	45.00	624.8	5729.1	-1.5	216.0	0.00	0.0	0.0	0.0	1.32	1.00	18.1	81.59	44.97	22.4
10/06/85	132.62	52.08	723.12	665.27	125.25	126.80	-1.35	45.00	624.8	5736.4	7.3	216.2	0.28	4.7	47.1	0.5	1.16	0.88	15.9	81.74	44.85	22.4
10/13/85	132.60	51.61	718.52	659.20	125.34	126.65	-1.31	45.00	624.8	5747.8	11.4	216.4	0.64	11.5	116.1	1.2	1.04	0.74	13.3	81.82	44.83	22.4
10/20/85	132.57	50.42	700.06	644.06	125.38	126.57	-1.19	45.00	624.8	5731.5	-16.4	216.1	0.03	0.5	5.4	0.1	1.08	0.77	13.8	81.75	44.82	22.4
10/27/85	132.55	49.24	693.64	628.96	125.37	126.47	-1.10	45.00	624.8	5708.5	-22.0	215.7	0.50	9.0	90.7	0.9	1.07	0.78	13.7	81.85	44.82	22.4
11/03/85	132.52	48.06	687.28	613.89	125.42	126.74	-1.32	45.00	624.8	5767.9	59.4	216.8	5.29	96.1	999.3	9.6	1.03	0.73	13.1	81.97	44.77	22.2
11/10/85	132.45	46.89	650.67	596.99	125.32	126.45	-1.13	45.00	624.8	5705.4	-62.5	215.6	0.07	1.3	12.7	0.1	1.04	0.86	15.6	81.85	44.80	22.4
11/17/85	132.39	43.78	607.80	559.17	125.30	125.99	-0.69	45.00	624.8	5671.8	-98.3	213.7	0.08	1.4	14.5	0.1	0.81	0.67	12.1	81.81	44.18	22.2
11/24/85	132.32	40.71	565.18	519.97	125.28	125.93	-0.65	37.27	517.4	5594.0	-13.1	213.4	0.79	14.1	143.3	1.4	0.83	0.52	9.3	81.91	44.02	21.8
12/01/85	132.22	37.89	523.24	481.36	125.18	125.78	-0.56	35.19	488.5	5556.3	-37.7	212.7	0.00	0.0	0.0	0.0	0.60	0.50	8.9	81.94	43.82	21.7
12/08/85	132.29	33.26	461.84	424.89	125.00	125.68	-0.68	29.71	412.4	5539.8	-16.5	212.3	0.06	1.1	10.9	0.1	0.63	0.49	8.6	81.78	43.90	21.5
12/15/85	132.36	36.26	503.38	463.11	125.02	125.98	-0.96	27.54	382.4	5503.0	63.2	213.6	0.73	12.9	132.4	1.3	0.75	0.58	10.2	81.69	44.29	21.5
12/22/85	132.42	39.31	546																			

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 123.2 C1 = -3793966.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet					Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft				Brooklyn Leakage ac-feet		
																								Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet
04/06/86	132.22	37.69	523.24	481.38	125.02	125.67	-0.65	35.21	488.8	5539.0	-55.1	212.3	0.00	0.0	0.0	1.82	1.49	28.5	82.75	42.93	21.2				
04/13/86	132.12	33.28	461.84	424.89	124.86	125.69	-0.83	27.44	361.0	5541.9	2.9	212.4	0.39	6.9	0.0	1.90	1.56	27.6	82.85	42.84	21.0				
04/20/86	132.02	28.00	402.58	370.37	124.80	125.41	-0.61	27.81	396.1	5482.9	-59.0	211.2	0.00	0.0	0.0	1.53	1.25	22.2	82.49	42.82	21.0				
04/27/86	131.96	24.91	345.84	318.17	124.78	125.32	-0.58	21.07	292.5	5464.7	-18.2	210.9	0.24	4.2	0.0	1.91	1.57	27.8	82.33	43.00	20.9				
05/04/86	131.90	22.56	313.17	288.12	124.69	125.17	-0.48	19.30	269.0	5432.3	-32.5	210.2	0.00	0.0	0.0	2.20	1.80	31.7	82.11	43.08	20.9				
05/11/86	131.88	20.28	281.63	259.10	124.59	125.09	-0.50	16.47	228.7	5415.4	-18.9	209.9	0.00	0.0	0.0	1.77	1.50	26.4	81.97	43.12	20.9				
05/18/86	131.86	19.55	271.39	249.67	124.47	125.05	-0.58	15.16	210.5	5407.0	-8.3	209.7	0.00	0.0	0.0	1.79	1.52	26.6	81.72	43.33	20.9				
05/25/86	131.84	18.82	261.28	240.37	124.50	125.10	-0.60	14.56	202.0	5418.1	11.0	209.9	0.98	17.1	177.7	1.8	1.70	1.45	25.3	81.66	43.42	21.0			
06/01/86	131.82	18.10	251.31	231.20	124.40	124.98	-0.58	15.36	213.3	5367.8	-30.3	209.3	0.19	3.3	34.5	0.3	2.07	1.78	30.8	81.56	43.39	21.0			
06/08/86	131.80	17.39	241.48	222.16	124.34	124.94	-0.60	13.23	183.7	5394.7	-3.1	209.3	0.42	7.3	78.2	0.8	1.81	1.65	28.7	81.39	43.55	21.0			
06/15/86	131.78	16.70	231.80	213.26	124.38	125.19	-0.81	13.03	180.8	5436.5	51.8	210.3	3.41	59.5	618.3	6.2	1.59	1.45	25.2	81.45	43.74	21.0			
06/22/86	131.88	15.33	212.89	195.86	125.20	124.93	0.27	18.82	233.5	5361.8	-54.8	209.2	1.47	25.8	208.6	2.7	1.53	1.39	24.4	81.85	43.08	21.2			
06/29/86	132.00	19.55	271.39	249.67	125.10	125.05	0.05	12.83	178.1	5408.8	25.2	209.7	0.00	0.0	0.0	1.81	1.47	25.5	81.66	43.37	20.8				
07/06/86	132.12	24.12	334.83	306.05	125.08	125.43	-0.35	14.54	201.8	5487.0	80.2	211.3	1.09	19.0	197.7	2.0	1.64	1.49	28.1	81.94	43.79	21.0			
07/13/86	132.03	29.00	402.58	370.37	125.10	125.69	-0.59	21.46	296.3	5542.9	55.8	212.4	1.46	25.7	264.7	2.6	1.45	1.32	23.2	81.83	44.07	21.4			
07/20/86	131.93	25.18	349.54	321.57	124.94	125.12	-0.18	27.93	367.8	5422.0	-120.8	210.0	0.00	0.0	0.0	2.05	1.87	33.0	81.37	43.75	21.8				
07/27/86	131.84	21.54	299.01	275.09	124.89	125.55	-0.66	15.66	217.5	5511.9	89.9	211.8	4.10	71.8	743.5	7.4	1.61	1.47	25.6	81.44	44.11	21.2			
08/03/86	131.78	18.10	251.31	231.20	124.80	124.91	-0.11	24.18	335.8	5379.4	-134.5	209.1	0.74	13.1	134.2	1.3	1.42	1.29	22.8	81.30	43.60	21.8			
08/10/86	131.82	15.33	212.89	195.86	124.82	124.92	0.00	12.56	174.4	5379.5	2.1	209.2	1.12	19.5	203.1	2.0	1.34	1.14	19.8	81.30	43.61	21.1			
08/17/86	131.87	17.28	239.86	220.67	124.86	125.20	-0.22	12.99	176.2	5439.4	59.9	210.3	2.93	49.3	513.2	5.1	1.21	1.03	17.9	81.43	43.77	21.1			
08/24/86	131.93	19.30	268.00	246.56	124.90	125.30	-0.31	17.06	236.9	5459.9	29.5	210.8	2.93	51.4	531.3	5.3	1.65	1.40	24.6	81.36	43.94	21.3			
08/31/86	131.92	21.41	297.28	273.48	124.97	125.28	-0.31	18.85	261.8	5455.3	-4.6	210.7	1.17	20.5	212.2	2.1	1.18	1.00	17.6	81.29	43.88	21.4			
09/07/86	131.85	21.03	292.02	268.65	124.90	125.28	-0.38	18.44	251.7	5451.7	-3.8	210.6	1.25	21.3	228.7	2.3	1.43	1.09	19.1	81.25	44.01	21.4			
09/14/86	131.78	18.53	257.27	236.69	124.78	125.14	-0.36	18.12	251.6	5426.5	-25.2	210.1	1.57	27.6	284.7	2.8	1.45	1.10	19.3	81.29	43.86	21.4			
09/21/86	131.72	16.15	224.16	206.23	124.74	124.89	-0.15	16.02	224.4	5373.5	-53.0	209.0	0.11	1.9	19.9	0.2	1.33	1.01	17.7	81.12	43.77	21.3			
09/28/86	131.65	13.89	192.82	177.39	124.62	124.75	-0.13	12.32	171.1	5344.8	-28.6	208.5	0.17	3.0	30.8	0.3	1.30	0.99	17.2	80.94	43.61	21.1			
10/05/86	131.58	11.77	163.35	150.29	124.54	124.58	-0.04	10.88	148.3	5309.8	-34.9	207.8	0.00	0.0	0.0	1.20	0.91	15.8	80.85	43.74	21.1				
10/12/86	131.70	9.79	135.89	125.02	124.58	124.68	-0.10	8.97	124.6	5329.2	19.3	208.1	2.99	48.6	487.8	4.9	0.94	0.67	11.6	80.93	43.75	21.0			
10/19/86	131.64	13.38	185.71	170.86	124.52	124.87	-0.15	9.88	137.2	5327.4	-1.8	208.1	0.00	0.0	0.0	1.17	0.83	14.4	80.80	43.87	21.0				
10/26/86	131.58	11.53	160.02	147.22	124.29	124.58	-0.29	9.79	136.0	5308.1	-19.2	207.7	0.14	2.4	25.4	0.3	1.00	0.70	12.1	80.84	43.74	21.1			
11/02/86	131.52	9.78	135.89	125.02	124.30	124.55	-0.25	8.90	123.6	5302.7	-5.4	207.6	1.06	18.3	192.2	1.9	0.50	0.36	6.1	80.78	43.78	21.0			
11/09/86	131.53	8.17	113.41	104.34	124.26	124.32	-0.06	6.96	120.3	5255.3	-47.4	206.7	0.00	0.0	0.0	0.0	0.73	0.61	10.5	80.68	43.68	21.0			
11/16/86	131.54	8.36	116.31	107.01	124.18	124.29	-0.11	6.82	94.8	5249.1	-6.2	206.5	0.71	12.2	126.7	1.3	0.78	0.65	11.1	80.67	43.62	20.8			
11/23/86	131.54	6.59	118.24	109.70	124.11	124.24	-0.13	6.61	91.8	5238.0	-11.1	206.3	0.11	1.9	19.9	0.2	0.72	0.60	10.3	80.57	43.67	20.8			
11/30/86	131.55	6.80	122.20	112.42	124.28	124.50	-0.24	6.24	86.7	5293.0	54.9	207.4	3.14	54.0	569.4	5.7	0.68	0.58	9.7	80.70	43.80	20.8			
12/07/86	131.56	9.02	125.19	115.17	124.30	124.43	-0.13	8.25	114.5	5278.6	-14.4	207.1	0.80	13.8	145.1	1.5	0.70	0.54	9.3	80.56	43.87	21.0			
12/14/86	131.62	9.23	128.21	117.95	124.47	124.48	0.01	7.88	106.6	5283.5	4.9	207.2	1.31	22.7	237.5	2.4	0.79	0.61	10.5	80.57	43.86	21.0			
12/21/86	131.68	10.83	151.80	139.65	124.48	124.48	0.00	7.87	109.2	5267.9	4.4	207.3	0.05	0.9	9.1	0.1	0.45	0.35	6.0	80.82	43.86	21.0			
12/28/86	131.74	12.75	178.98	162.82	124.44	124.70	-0.26	6.04	111.7	5334.0	48.1	208.2	1.14	19.7	208.7	2.1	0.44	0.34	5.9	80.85	44.05	21.0			
01/04/87	131.80	14.67	203.67	187.38	124.70	124.96	-0.26	10.12	140.5	5368.1	54.2	209.3	1.87	32.5	339.1	3.4	0.55	0.42	7.3	80.83	44.13	21.2			
01/11/87	131.87	16.70	231.80	213.26	124.84	124.98	-0.34	13.25	194.0	5362.2	4.1	209.4	0.18	3.1	32.6	0.3	0.61	0.42	7.3	80.76	44.21	21.3			
01/18/87	131.94	19.11	265.30	244.06	124.70	125.15	-0.45	13.52	187.7	5428.0	35.8	210.1	0.96	6.3	65.3	0.7	0.51	0.35	6.1	80.86	44.29	21.4			
01/25/87	132.00	21.84	300.42	276.38	124.85	125.49	-0.64	16.13	224.0	5500.3	72.4	211.8	2.47	43.2	447.9	4.5	0.52	0.38	6.3	80.94	44.55	21.5			
02/01/87	132.07	24.27	337.02	310.08	124.80	125.31	-0.51	22.89	317.9	5462.3	-38.1	210.8	0.00	0.0	0.0	0.0	0.70	0.48	8.5	81.00	44.31	21.8			
02/08/87	132.14	27.01	375.00	345.00	124.95	125.73	-0.78	19.07	264.8	5551.2	88.9	212.6	1.98	34.8	359.0	3.6	0.63	0.46	8.1	81.29	44.45	21.6			
02/15/87	132.28	29.83	414.24	381.10	125.00	125.47	-0.47	29.02	403.0	5495.4	-55.8	211.5	0.00	0.0	0.0	0.0	0.94	0.69	12.2	81.35	44.12	21.8			
02/22/87	132.38	36.02	486.16	447.27	125.24	126.27	-1.03	22.36	310.4	5665.1	169.7	214.8	3.39	59.7	614.7	6.1	0.89	0.65	11.4	81.58	44.68	21.5			
03/01/87	132.50	40.40	560.96	516.08	125.28	125.75	-0.49	45.00	624.8	5555.5	-108.6	212.6	1.81	32.4	328.2	3.3	1.10	0.80	14.4	81.82	43.83	22.2			
03/08/87	132.48	45.95	637.98	588.93	125.45	126.52	-1.07	29.80	411.0	5721.0	165.4	215.9	1.35	23.9	244.8	2.4	1.03	0.67	15.3	82.33	44.20	21.5			
03/15/87	132.48	45.48	631.48	580.96	125.35	126.15	-0.80	45.00	624.8	5640.6	-80.4	214.3	0.03	0.5	5.4	0.1	1.00	0.84	15.1	82.46	43.69	22.0			
03/22/87	132.59	45.48	631.48	580.96	125.22	125.91	-0.69	43.05																	

MAGNOLIA LAKE LONG - TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241883.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 82%				Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 123.2 C1 = -3793986.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Discharge ac-feet	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Florida Aquifer Elevation elev	Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet														
07/05/87	131.98	23.18	321.78	298.04	125.02	125.20	-0.18	23.73	329.5	5437.9	-70.1	210.3	0.43	7.8	78.0	0.8	1.48	1.35	23.8	81.95	43.25	21.2						
07/12/87	131.94	22.50	313.17	288.12	125.00	125.35	-0.35	16.93	236.1	5408.8	32.0	211.0	1.54	27.0	279.3	2.8	1.87	1.70	29.8	81.93	43.42	21.0						
07/19/87	131.92	21.79	302.53	278.33	124.90	125.20	-0.30	19.78	274.7	5438.4	-31.5	210.3	0.40	7.0	72.5	0.7	1.36	1.24	21.8	81.81	43.38	21.1						
07/26/87	131.90	21.03	292.02	268.65	124.80	125.22	-0.42	16.97	236.7	5442.0	3.8	210.4	1.46	25.6	264.7	2.8	2.29	2.08	36.5	81.66	43.55	21.1						
08/02/87	131.88	20.28	281.63	259.10	124.80	125.19	-0.39	17.28	239.9	5437.1	-4.9	210.3	1.08	18.6	192.2	1.9	1.47	1.34	23.5	81.55	43.65	21.2						
08/09/87	131.82	19.55	271.39	249.67	124.79	125.11	-0.32	16.87	234.2	5419.3	-17.8	209.9	0.53	9.3	96.1	1.0	1.50	1.28	22.3	81.22	43.89	21.2						
08/16/87	131.97	21.18	294.11	270.58	125.14	125.58	-0.44	15.45	214.6	5518.0	98.7	211.9	4.03	70.5	730.8	7.3	0.93	0.79	13.8	81.83	43.95	21.3						
08/23/87	132.01	22.87	317.47	292.07	125.38	125.10	0.28	24.88	345.4	5417.9	-100.1	209.9	0.00	0.0	0.0	0.0	1.88	1.43	25.2	81.54	43.58	21.5						
08/30/87	132.08	24.99	341.42	314.11	125.23	125.38	-0.15	15.35	213.1	5472.9	55.0	211.0	0.03	0.5	5.4	0.1	1.71	1.45	25.4	81.34	44.02	21.1						
09/06/87	132.10	26.38	365.85	336.67	125.18	125.50	-0.32	20.08	278.8	5501.5	28.6	211.8	0.22	3.9	39.9	0.4	0.91	0.89	12.2	81.48	44.04	21.4						
09/13/87	132.00	28.16	391.01	359.73	125.12	125.88	-0.58	23.02	319.6	5540.8	39.4	212.4	2.03	35.8	388.1	3.7	1.40	1.08	18.8	81.40	44.28	21.5						
09/20/87	131.90	24.12	334.83	308.05	125.25	125.25	-0.23	27.67	384.2	5448.7	-91.2	210.8	1.28	22.3	228.5	2.3	1.33	1.01	17.9	81.24	44.01	21.7						
09/27/87	131.80	20.28	281.63	259.10	124.82	125.12	-0.30	17.94	249.0	5421.8	-27.9	210.0	0.00	0.0	0.0	0.0	1.24	0.94	16.5	81.01	44.11	21.4						
10/04/87	131.70	18.70	251.80	213.28	124.64	124.94	-0.30	15.65	217.3	5385.1	-38.6	209.3	0.43	7.5	78.0	0.8	1.47	1.12	19.8	80.94	44.01	21.4						
10/11/87	131.50	13.38	185.71	170.86	124.51	124.72	-0.21	13.08	181.3	5338.5	-48.7	206.3	0.00	0.0	0.0	0.0	1.21	0.86	15.0	80.89	43.83	21.3						
10/18/87	131.43	7.88	106.30	97.80	124.32	124.32	0.00	10.35	143.7	5255.0	-83.5	206.6	0.00	0.0	0.0	0.0	1.34	0.95	16.5	80.74	43.58	21.1						
10/25/87	131.37	6.05	84.03	77.30	124.18	124.07	0.11	8.81	94.8	5203.8	-51.1	205.8	0.00	0.0	0.0	0.0	1.07	0.78	13.1	80.50	43.57	20.8						
11/01/87	131.30	4.61	64.04	58.91	124.06	123.84	0.22	5.20	72.2	5155.8	-48.0	204.8	0.00	0.0	0.0	0.0	1.10	0.82	14.1	80.41	43.43	20.7						
11/08/87	131.37	3.35	46.45	42.73	124.28	123.75	0.51	3.67	53.8	5138.3	-17.5	204.3	1.42	24.2	257.5	2.8	0.96	0.75	12.7	80.50	43.28	20.5						
11/15/87	131.43	4.80	63.85	58.74	124.20	123.84	0.58	3.40	47.3	5118.6	-21.8	203.8	0.00	0.0	0.0	0.0	0.90	0.75	12.7	80.41	43.24	20.4						
11/22/87	131.50	6.02	83.80	78.91	124.48	123.91	0.55	2.82	39.2	5170.6	-53.9	204.9	2.78	48.9	500.5	5.0	1.09	0.90	15.4	80.44	43.47	20.3						
11/29/87	131.56	7.61	105.80	97.15	124.48	123.96	0.52	4.27	59.3	5180.3	9.7	205.1	0.13	2.2	23.6	0.2	0.71	0.59	10.1	80.54	43.42	20.6						
12/06/87	131.83	9.94	129.73	119.35	124.45	124.08	0.37	4.53	63.0	5204.8	24.5	205.6	0.00	0.0	0.0	0.0	0.88	0.68	11.3	80.09	43.68	20.8						
12/13/87	131.83	11.23	155.88	143.41	124.38	124.28	0.10	5.23	72.6	5248.7	42.0	206.5	0.05	0.9	9.1	0.1	0.88	0.52	9.0	80.08	44.20	20.9						
12/20/87	131.83	11.15	154.88	142.47	124.54	124.48	0.08	6.53	90.7	5287.6	40.9	207.3	0.98	16.9	177.7	1.8	0.84	0.49	8.5	80.05	44.43	21.1						
12/27/87	131.82	11.08	153.84	141.53	124.54	124.48	0.08	6.03	111.5	5289.3	1.7	207.3	0.02	0.3	3.6	0.0	0.56	0.43	7.4	80.07	44.41	21.3						
01/03/88	131.82	11.01	152.81	140.59	124.48	124.50	-0.02	8.10	112.5	5292.7	3.4	207.4	0.13	2.2	23.6	0.2	0.45	0.35	6.0	80.01	44.49	21.3						
01/10/88	131.82	10.93	151.80	139.65	124.44	124.81	-0.37	8.24	114.4	5314.8	22.1	207.9	1.23	21.3	223.0	2.2	0.45	0.31	5.4	79.99	44.71	21.3						
01/17/88	131.83	10.93	151.80	139.65	124.38	124.53	-0.15	9.20	127.7	5298.1	-18.7	207.5	0.02	0.3	3.6	0.0	0.63	0.43	7.5	79.85	44.68	21.5						
01/24/88	131.75	11.23	155.88	143.41	124.60	124.78	-0.18	8.48	117.5	5350.4	52.3	208.6	2.82	50.5	528.5	5.3	0.87	0.48	8.0	80.08	44.71	21.4						
01/31/88	131.88	15.00	208.28	191.80	124.70	124.92	-0.22	10.98	152.5	5379.0	28.7	209.1	0.94	18.3	170.5	1.7	0.58	0.40	7.0	80.09	44.82	21.5						
02/07/88	131.92	19.55	271.39	249.67	124.70	125.16	-0.46	12.67	175.9	5428.9	50.8	210.2	0.42	7.3	76.2	0.8	0.74	0.54	9.4	80.07	45.08	21.8						
02/14/88	131.98	21.03	292.02	268.65	124.68	125.23	-0.55	16.28	228.1	5444.9	15.0	210.5	0.25	4.4	45.3	0.5	0.82	0.80	10.5	80.08	45.17	21.9						
02/21/88	132.00	22.58	313.17	288.12	124.98	125.68	-0.70	17.53	243.4	5539.3	94.3	212.3	4.08	71.6	739.8	7.4	0.58	0.42	7.4	80.32	45.35	21.9						
02/28/88	132.04	24.12	334.83	308.05	124.98	125.16	-0.20	27.47	381.4	5430.4	-108.9	210.2	0.00	0.0	0.0	0.0	1.03	0.75	13.3	80.42	44.74	22.2						
03/06/88	132.19	25.71	358.97	328.41	125.20	125.75	-0.55	16.32	228.6	5554.7	124.3	212.6	2.98	52.2	540.4	5.4	0.91	0.76	13.4	80.66	45.09	21.7						
03/13/88	132.33	31.97	443.81	408.31	125.40	125.85	-0.45	29.49	409.4	5577.2	22.5	213.1	3.24	57.4	587.5	5.9	1.18	0.99	17.6	81.04	44.81	22.1						
03/20/88	132.28	38.14	529.49	487.13	125.42	125.96	-0.54	32.65	453.3	5600.3	23.1	213.5	1.56	27.7	282.9	2.8	1.29	1.08	19.2	81.07	44.89	22.0						
03/27/88	132.23	35.90	488.45	458.57	125.40	125.56	-0.16	38.17	502.2	5514.0	-88.2	211.8	0.00	0.0	0.0	0.0	1.37	1.15	20.5	81.21	44.34	22.1						
04/03/88	132.18	33.70	467.89	430.46	125.28	125.78	-0.50	34.42	339.1	5560.4	48.4	212.7	0.00	0.0	0.0	0.0	1.81	1.32	23.3	81.30	44.47	21.7						
04/10/88	132.10	31.54	437.85	402.82	125.10	125.52	-0.42	30.27	420.3	5508.6	-53.8	211.7	0.30	5.3	54.4	0.5	1.40	1.15	20.4	81.05	44.47	21.8						
04/17/88	132.01	27.96	388.14	367.08	124.98	125.58	-0.58	23.59	327.5	5514.2	7.5	211.8	0.82	18.2	188.8	1.7	1.26	1.03	18.2	80.94	44.81	21.7						
04/24/88	131.83	24.51	340.32	313.10	124.82	125.24	-0.32	24.44	339.3	5448.6	-67.4	210.5	0.13	2.3	23.8	0.2	1.51	1.24	21.9	80.81	44.43	21.8						
05/01/88	131.84	21.22	294.83	271.08	124.80	125.20	-0.40	17.69	246.6	5436.5	-7.3	210.3	0.51	8.9	92.5	0.9	1.48	1.20	21.0	80.79	44.41	21.6						
05/08/88	131.83	18.10	251.31	231.20	124.64	124.94	-0.30	17.07	237.0	5384.3	-55.3	209.2	0.00	0.0	0.0	0.0	1.87	1.59	22.9	80.43	44.51	21.6						
05/15/88	131.82	17.82	247.36	227.57	124.90	125.10	-0.20	13.00	180.5	5417.5	33.2	209.9	1.58	27.2	282.9	2.8	1.51	1.28	22.4	80.65	44.45	21.5						
05/22/88	131.82	17.53	243.43	223.98	124.84	124.92	-0.08	15.32	212.7	5379.4	-38.1	209.1	0.00	0.0	0.0	0.0	1.87	1.59	27.8	80.28	44.68	21.5						
05/29/88	131.81	17.25	239.53	220.37	124.78	125.01	-0.25	12.69	178.2	5398.2	18.8	209.5	1.17	20.4	212.2	2.1	1.78	1.51	28.4	80.24	44.78	21.6						
06/05/88	131.80	16.97	235.85	216.80	124.84	124.85	-0.02	13.93	193.4	5387.1	-31.1	208.9	0.00	0.0	0.0	0.0	2.07	1.88	32.9	80.09	44.77	21.7						
06/12/88	131.71	16.70	231.80	213.28	124.52	124.98	-0.44	11.93	165.7	5389.2	22.2	209.3	1.08	18.8	195.8	2.0	1.55	1.41	24.6	80.01	44.95	21.6						
06/19/88	131.61	13.59	188.88	173.57	124.40	124.86	-0.28	13																				

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%				Hmin = 123.2 C1 = -378398.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 2176 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.29E-04 1/day		
	Band Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Drainage Area Precip. ac-feet						Overland Runoff Volume ac-feet	Florida n Aquifer Elevation elev				Florida n Aquifer Elevation ft	Brooklyn Leakage ac-feet	
																									Florida n Aquifer Elevation elev
10/02/88	132.13	25.21	350.00	322.00	125.46	125.52	-0.06	17.68	245.5	5506.3	59.6	211.7	0.94	16.5	170.5	1.7	1.04	0.79	13.9	81.69	43.83	21.3			
10/09/88	132.02	29.41	406.39	375.72	125.15	125.67	-0.52	23.54	326.9	5537.0	30.7	212.3	0.98	17.3	177.7	1.8	1.26	0.89	15.8	81.62	44.05	21.4			
10/16/88	131.95	24.91	345.84	318.17	124.88	125.22	-0.34	27.18	377.4	5442.9	-94.1	210.4	0.00	0.0	0.0	0.0	1.06	0.75	13.3	81.54	43.68	21.6			
10/23/88	131.88	22.17	307.84	283.21	124.78	125.24	-0.46	17.35	240.9	5447.4	4.5	210.5	0.00	0.0	0.0	0.0	1.33	0.94	16.6	81.53	43.71	21.2			
10/30/88	131.81	19.55	271.39	249.67	124.80	125.10	-0.30	17.74	246.3	5417.1	-30.3	209.9	0.00	0.0	0.0	0.0	1.00	0.71	12.5	81.38	43.71	21.2			
11/06/88	131.74	17.04	236.62	217.89	124.82	125.04	-0.22	15.29	212.3	5404.7	-12.3	209.7	0.81	14.2	146.9	1.5	0.84	0.70	12.2	81.49	43.55	21.2			
11/13/88	131.78	14.67	203.67	187.39	124.82	124.82	-0.00	14.39	199.7	5359.6	-45.2	208.8	0.00	0.0	0.0	0.0	0.81	0.67	11.7	81.31	43.51	21.1			
11/20/88	131.82	16.01	222.27	204.49	124.82	124.89	-0.07	11.50	159.6	5373.1	13.5	209.0	0.00	0.0	0.0	0.0	0.72	0.60	10.4	81.34	43.55	21.0			
11/27/88	131.86	17.39	241.48	222.16	124.82	125.16	-0.34	12.29	170.7	5431.1	58.0	210.2	1.99	34.7	380.9	3.6	0.74	0.61	10.7	81.44	43.73	21.0			
12/04/88	131.80	18.82	261.28	240.37	124.82	125.12	-0.30	16.38	227.4	5421.6	-9.3	210.0	0.40	7.0	72.5	0.7	0.65	0.50	8.8	81.42	43.70	21.2			
12/11/88	131.80	20.26	281.63	259.10	124.88	125.18	-0.32	15.65	217.3	5436.0	13.2	210.3	0.00	0.0	0.0	0.0	0.55	0.42	7.4	81.45	43.74	21.2			
12/18/88	131.79	18.70	231.80	213.26	124.83	125.09	-0.26	16.70	231.9	5415.5	-19.5	209.9	1.33	23.3	241.2	2.4	0.40	0.31	5.4	81.22	43.67	21.2			
12/25/88	131.78	16.35	227.02	208.86	124.80	124.85	-0.15	15.17	210.6	5385.2	-30.3	209.3	0.00	0.0	0.0	0.0	0.54	0.42	7.3	81.30	43.64	21.3			
01/01/89	131.78	16.01	222.27	204.49	124.78	124.92	-0.14	13.06	181.3	5378.6	-5.6	209.2	0.00	0.0	0.0	0.0	0.57	0.44	7.7	81.33	43.59	21.1			
01/08/89	131.77	16.01	222.27	204.49	124.74	124.91	-0.17	12.70	178.4	5377.4	-2.2	209.1	0.00	0.0	0.0	0.0	0.77	0.53	9.3	81.10	43.81	21.0			
01/15/89	131.77	15.67	217.56	200.16	124.72	124.90	-0.18	12.57	174.5	5376.1	-1.3	209.1	0.00	0.0	0.0	0.0	0.49	0.34	5.9	80.96	43.92	21.2			
01/22/89	131.76	15.67	217.56	200.16	124.70	124.98	-0.29	12.46	173.3	5394.5	18.5	209.5	1.14	19.9	206.7	2.1	0.78	0.52	9.1	81.09	43.90	21.2			
01/29/89	131.76	15.33	212.69	195.86	124.70	124.87	-0.17	13.68	189.9	5370.3	-24.2	209.0	0.01	0.2	1.8	0.0	0.78	0.52	9.2	80.92	43.96	21.2			
02/05/89	131.70	15.33	212.69	195.86	124.70	124.85	-0.15	12.13	168.4	5365.6	-4.7	208.9	0.00	0.0	0.0	0.0	0.88	0.63	10.9	80.78	44.07	21.2			
02/12/89	131.64	13.36	185.71	170.86	124.64	124.72	-0.08	11.85	164.5	5337.5	-28.1	208.3	0.00	0.0	0.0	0.0	1.04	0.76	13.2	80.57	44.15	21.3			
02/19/89	131.63	11.53	160.02	147.22	124.54	124.58	-0.04	10.30	143.0	5309.3	-26.2	207.7	0.00	0.0	0.0	0.0	0.88	0.64	11.2	80.51	44.07	21.2			
02/26/89	131.63	11.23	155.88	143.41	124.52	124.59	-0.07	8.95	124.3	5310.7	1.4	207.8	0.84	14.5	152.3	1.5	1.00	0.73	12.6	80.31	44.28	21.1			
03/05/89	131.62	11.23	155.88	143.41	124.62	124.62	-0.00	9.02	125.2	5317.7	7.0	207.9	1.28	21.8	228.5	2.3	0.97	0.81	14.1	80.45	44.17	21.2			
03/12/89	131.58	10.83	151.80	139.85	124.52	124.50	0.02	9.34	129.6	5293.2	-24.6	207.4	0.00	0.0	0.0	0.0	0.92	0.77	13.4	80.31	44.20	21.2			
03/19/89	131.53	9.85	133.95	123.24	124.46	124.33	0.13	8.26	114.7	5257.6	-35.4	206.7	0.00	0.0	0.0	0.0	1.57	1.32	22.6	79.97	44.37	21.2			
03/26/89	131.49	8.43	117.04	107.68	124.42	124.23	0.19	6.91	95.9	5237.0	-20.8	206.3	0.30	5.2	54.4	0.5	1.18	0.99	17.1	80.01	44.22	21.2			
04/02/89	131.44	7.28	101.10	93.01	124.34	124.05	0.29	6.21	86.2	5189.5	-37.5	205.5	0.00	0.0	0.0	0.0	1.65	1.35	23.3	79.71	44.34	21.1			
04/09/89	131.43	6.20	86.15	79.26	124.26	123.91	0.37	5.07	70.4	5171.4	-28.1	204.9	0.31	5.3	56.2	0.6	1.56	1.27	21.8	79.71	44.20	21.0			
04/16/89	131.42	5.98	82.97	75.33	124.20	123.91	0.29	4.29	59.6	5171.8	0.4	205.0	1.02	17.4	185.0	1.8	1.05	0.86	14.7	79.69	44.23	20.9			
04/23/89	131.41	5.75	79.84	73.45	124.14	123.79	0.35	4.30	59.7	5145.6	-26.2	204.4	0.01	0.2	1.8	0.0	1.37	1.12	19.2	79.39	44.39	20.9			
04/30/89	131.40	5.53	76.78	70.82	123.98	123.66	0.32	3.80	50.0	5119.0	-28.6	203.9	0.00	0.0	0.0	0.0	1.88	1.54	26.3	79.13	44.53	21.0			
05/07/89	131.35	5.31	73.74	67.84	123.90	123.64	0.26	2.88	40.1	5116.5	-2.5	203.8	0.77	13.1	139.6	1.4	1.65	1.40	23.8	79.18	44.47	21.0			
05/14/89	131.30	4.28	59.41	54.66	123.82	123.51	0.31	2.82	39.1	5090.1	-26.4	203.3	0.30	5.1	54.4	0.5	1.85	1.57	26.7	78.99	44.53	20.9			
05/21/89	131.25	3.35	46.45	42.73	123.72	123.35	0.37	2.03	28.8	5056.6	-34.2	202.6	0.02	0.3	3.8	0.0	1.62	1.63	27.6	78.73	44.62	20.9			
05/28/89	131.20	2.51	34.89	32.10	123.62	123.29	0.33	1.02	14.2	5044.2	-11.7	202.3	0.84	14.2	152.3	1.5	1.70	1.45	24.4	78.50	44.78	20.9			
06/04/89	131.08	1.79	24.80	22.82	123.51	123.09	0.42	0.63	8.6	5004.3	-39.9	201.5	0.05	0.8	9.1	0.1	2.21	2.01	33.9	78.27	44.82	20.9			
06/11/89	131.07	0.49	6.83	6.29	123.48	123.02	0.46			4990.3	-13.9	201.2	1.29	21.7	233.9	2.3	1.53	1.39	23.4	78.43	44.59	20.9			
06/18/89	131.06	0.41	5.75	5.29	123.34	122.82	0.42			4979.9	-19.4	200.8	1.33	22.3	241.2	2.4	1.68	1.71	26.7	78.27	44.65	20.7			
06/25/89	131.05	0.34	4.73	4.35	123.34	122.19	0.15			5024.4	53.5	201.9	5.17	86.5	937.5	9.4	1.71	1.96	26.0	78.40	44.79	20.7			
07/02/89	131.04	0.27	3.77	3.47	123.40	123.26	0.12			5041.9	17.5	202.3	3.22	54.2	583.9	5.8	1.64	1.49	25.1	78.42	44.85	20.9			
07/09/89	131.04	0.21	2.88	2.65	123.34	123.03	0.31	0.56	7.7	4992.2	-49.7	201.3	0.02	0.3	3.6	0.0	1.57	1.43	24.1	78.22	44.81	20.9			
07/16/89	131.04	0.21	2.88	2.65	123.40	122.83	0.57			4951.9	-40.3	200.4	0.18	3.0	32.6	0.3	1.67	1.52	25.5	78.27	44.56	20.8			
07/23/89	131.04	0.21	2.88	2.65	123.36	122.94	0.44			4974.3	22.5	200.9	3.39	56.6	614.7	6.1	1.47	1.34	22.3	78.20	44.74	20.6			
07/30/89	131.05	0.21	2.88	2.65	123.36	122.71	0.65			4928.6	-45.5	199.9	0.04	0.7	7.3	0.1	1.85	1.69	26.2	78.14	44.59	20.8			
08/06/89	131.05	0.27	3.77	3.47	123.24	122.58	0.66			4901.8	-27.0	199.4	0.75	12.5	136.0	1.4	1.68	1.43	23.8	78.05	44.52	20.6			
08/13/89	131.05	0.27	3.77	3.47	123.14	122.61	0.53			4906.2	6.4	199.5	2.26	37.5	409.6	4.1	1.29	1.10	18.2	78.08	44.53	20.5			
08/20/89	131.04	0.27	3.77	3.47	123.14	122.51	0.63			4889.2	-19.9	199.1	1.00	18.8	181.3	1.8	1.51	1.28	21.3	78.02	44.49	20.5			
08/27/89	131.04	0.21	2.88	2.65	123.00	122.58	0.42			4901.4	13.1	199.4	3.06	50.8	554.9	5.5	1.80	1.53	25.4	78.04	44.54	20.4			
09/03/89	131.04	0.21	2.88	2.65	122.40	122.73	-0.33			4931.7	30.4	200.0	3.67	64.3	701.8	7.0	1.83	1.39	23.1	78.04	44.69	20.5			
09/10/89	131.06	0.21	2.88	2.65	122.54	122.69	-0.15			4924.7	-7.1	199.8	1.53	25.5	277.4	2.8	1.37	1.04	17.4	78.13	44.57	20.6			
09/17/89	131.08	0.34	4.73	4.35	122.86	122.62	0.24			4908.5	-15.2	199.5	0.98	16.3	177.7	1.8	1.35	1.03	17.1	78.26	44.36	20.6			
09/24/89	131.10	0.49	6.83	6.29	122.44	122.61	-0.1																		

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 131.0 C1 = 10702300 C2 = -241893.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%				Hmin = 123.2 C1 = -3793966.2 C2 = 91939.34 C3 = -742.7 C4 = 2				Drainage area = 2176 Runoff Coeff. = 0.01				Leakance = 3.296E-04 1/day					
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gaineville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Florida Aquifer Elevation elev	Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
	01/07/90	130.68				121.58	121.42	0.14			4673.1	-12.4	194.5	0.82	13.3	148.7	1.5	0.88	0.48	7.4	77.51	43.91
01/14/90	130.67				121.50	121.31	0.19			4652.4	-20.7	194.1	0.46	7.5	83.4	0.8	0.83	0.57	9.3	77.23	44.06	19.7
01/21/90	130.67				121.44	121.18	0.26			4623.1	-29.2	193.4	0.00	0.0	0.0	0.0	0.85	0.59	9.5	77.35	43.81	19.7
01/28/90	130.66				121.34	121.02	0.32			4596.7	-26.5	192.9	0.21	3.4	38.1	0.4	0.95	0.66	10.7	77.28	43.76	19.8
02/04/90	130.70				121.34	120.91	0.43			4574.5	-22.1	192.4	0.39	6.3	70.7	0.7	0.82	0.60	9.6	77.30	43.61	19.5
02/11/90	130.70				121.34	120.83	0.51			4559.2	-15.3	192.0	0.89	14.3	161.4	1.6	1.01	0.74	11.8	77.27	43.56	19.4
02/18/90	130.71				121.28	120.71	0.57			4537.4	-21.8	191.6	0.80	9.8	108.8	1.1	1.13	0.82	13.2	77.17	43.55	19.3
02/25/90	130.71				121.36	120.70	0.66			4534.0	-3.4	191.5	1.37	21.9	248.4	2.5	0.73	0.53	8.5	77.27	43.42	19.3
03/04/90	130.72				121.22	120.56	0.66			4507.3	-26.7	190.9	0.43	6.9	78.0	0.8	1.13	0.95	15.1	77.51	43.05	19.2
03/11/90	130.68				121.10	120.38	0.72			4473.5	-33.6	190.2	0.04	0.6	7.3	0.1	1.18	0.97	15.5	77.28	43.10	19.0
03/18/90	130.63				121.02	120.24	0.78			4446.1	-27.4	189.6	0.58	9.2	105.2	1.1	1.41	1.18	18.8	77.27	42.96	18.9
03/25/90	130.59				120.98	120.04	0.92			4409.2	-36.8	188.7	0.00	0.0	0.0	0.0	1.36	1.14	18.0	77.11	42.93	18.8
04/01/90	130.56				120.88	120.09	0.79			4418.2	9.0	188.9	2.57	40.4	498.0	4.7	1.35	1.11	17.4	77.14	42.95	18.7
04/08/90	130.49				120.82	120.08	0.74			4418.1	-2.1	188.9	2.11	33.2	382.6	3.8	1.58	1.30	20.4	76.94	43.14	18.7
04/15/90	130.42				120.63	119.87	0.76			4376.8	-39.3	188.0	0.01	0.2	1.8	0.0	1.60	1.31	20.7	76.80	42.98	18.8
04/22/90	130.45				120.56	119.67	0.89			4338.9	-37.9	187.2	0.00	0.0	0.0	0.0	1.50	1.23	19.3	76.82	42.85	18.7
04/29/90	130.46				120.48	119.60	0.88			4326.5	-12.4	186.9	1.55	24.2	281.1	2.8	1.63	1.34	20.8	76.82	42.78	18.5
05/06/90	130.45				120.42	119.37	1.05			4293.0	-43.5	185.9	0.00	0.0	0.0	0.0	1.89	1.61	25.0	76.66	42.70	18.5
05/13/90	130.43				120.38	119.20	1.18			4251.1	-31.9	185.2	0.54	8.4	97.9	1.0	1.74	1.48	22.9	76.46	42.74	18.3
05/20/90	130.40				120.32	119.08	1.24			4229.3	-21.8	184.7	1.34	20.7	243.0	2.4	2.03	1.73	26.6	76.44	42.64	18.3
05/27/90	130.37				120.30	118.86	1.44			4188.9	-40.4	183.8	0.03	0.5	5.4	0.1	1.74	1.48	22.6	76.24	42.62	18.2
06/03/90	130.30				120.06	118.73	1.33			4168.0	-22.9	183.3	1.42	21.7	257.5	2.6	2.09	1.90	29.1	76.03	42.71	18.1
06/10/90	130.35				120.08	118.68	1.40			4156.6	-9.4	183.1	1.58	24.1	286.5	2.9	1.32	1.20	18.3	76.17	42.51	18.1
06/17/90	130.39				120.10	118.44	1.66			4111.9	-44.7	182.0	0.02	0.3	3.6	0.0	1.95	1.77	27.1	75.99	42.45	18.0
06/24/90	130.44				120.15	118.57	1.58			4136.9	25.0	182.6	3.96	80.1	718.1	7.2	1.77	1.61	24.4	76.21	42.36	17.8
07/01/90	130.48				120.22	118.69	1.54			4156.5	19.6	183.1	3.34	50.8	605.7	6.1	1.40	1.27	19.4	76.23	42.45	17.9
07/08/90	130.46				120.18	118.55	1.61			4131.9	-24.6	182.5	0.88	13.1	155.9	1.8	1.54	1.40	21.4	76.05	42.49	17.9
07/15/90	130.43				120.06	118.99	1.07			4213.1	81.2	184.3	7.14	108.6	1294.7	12.9	1.62	1.47	22.4	76.14	42.85	17.9
07/22/90	130.41				120.12	118.99	1.13			4212.7	-0.4	184.3	2.29	35.2	415.3	4.2	1.54	1.40	21.5	76.16	42.83	18.2
07/29/90	130.40				120.01	118.75	1.26			4189.4	-43.3	183.3	0.07	1.1	12.7	0.1	1.88	1.71	28.3	76.21	42.54	18.2
08/05/90	130.40				119.90	118.57	1.33			4135.9	-33.5	182.6	0.41	6.3	74.3	0.7	1.73	1.47	22.5	75.91	42.68	18.0
08/12/90	130.35				119.78	118.64	1.14			4149.6	13.7	182.9	2.79	42.5	505.9	5.1	1.22	1.04	15.8	75.86	42.76	18.0
08/19/90	130.29				119.70	118.56	1.14			4134.9	-14.7	182.6	1.32	20.1	239.4	2.4	1.48	1.26	19.2	75.83	42.73	18.1
08/26/90	130.24				119.58	118.53	1.05			4128.5	-6.4	182.4	1.80	27.4	328.4	3.3	1.47	1.25	19.0	75.78	42.74	18.0
09/02/90	130.18				119.44	118.52	0.92			4127.1	-1.5	182.4	2.07	31.5	375.4	3.8	1.82	1.29	18.7	75.72	42.60	18.0
09/09/90	130.07				119.32	118.36	0.96			4097.7	-29.4	181.7	0.29	4.4	52.6	0.5	1.41	1.07	16.3	75.86	42.70	18.0
09/16/90	129.95				119.18	118.22	0.96			4072.1	-25.6	181.1	0.52	7.9	94.3	0.9	1.43	1.09	16.5	75.80	42.62	17.9
09/23/90	129.84				119.12	118.03	1.09			4038.9	-33.3	180.3	0.22	3.3	36.9	0.4	1.67	1.27	19.2	75.54	42.49	17.8
09/30/90	129.72				118.92	117.93	0.99			4019.8	-19.1	179.9	0.82	12.3	148.7	1.5	1.33	1.01	15.2	75.48	42.45	17.7
10/07/90	129.72				118.84	117.78	1.06			3990.3	-29.5	179.2	0.08	1.2	14.5	0.1	1.24	0.88	13.2	75.42	42.35	17.6
10/14/90	129.71				118.06	117.87	1.19			4010.2	19.9	179.7	3.00	44.8	544.0	5.4	1.21	0.86	12.8	75.36	42.52	17.5
10/21/90	129.71				119.08	117.72	1.34			3982.9	-27.3	179.0	0.12	1.8	21.8	0.2	1.10	0.78	11.7	75.29	42.43	17.6
10/28/90	129.70				118.90	117.60	1.30			3960.9	-22.0	178.5	0.31	4.6	56.2	0.6	0.91	0.65	9.6	75.23	42.37	17.5
11/04/90	129.70				118.76	117.44	1.32			3932.7	-26.2	177.9	0.00	0.0	0.0	0.0	0.87	0.72	10.7	75.17	42.27	17.5
11/11/90	129.65				118.76	117.35	1.41			3917.1	-15.8	177.5	0.77	11.4	136.6	1.4	0.90	0.75	11.1	75.11	42.24	17.4
11/18/90	129.60				118.60	117.19	1.41			3888.7	-28.4	176.8	0.00	0.0	0.0	0.0	0.90	0.75	11.0	75.07	42.12	17.3
11/25/90	129.55				118.50	117.06	1.44			3865.8	-22.9	176.3	0.14	2.1	25.4	0.3	0.88	0.55	8.1	74.97	42.10	17.2
12/02/90	129.50				118.36	116.94	1.44			3843.2	-22.5	175.7	0.16	2.4	29.0	0.3	0.71	0.55	8.0	74.83	42.10	17.1
12/09/90	129.49				118.40	116.93	1.47			3841.8	-1.4	175.7	1.32	19.3	239.4	2.4	0.54	0.42	6.1	74.84	42.09	17.1
12/16/90	129.47				118.30	116.80	1.50			3818.7	-23.0	175.2	0.00	0.0	0.0	0.0	0.53	0.41	6.0	74.90	41.89	17.1
12/23/90	129.45				118.22	116.66	1.56			3795.3	-23.5	174.6	0.00	0.0	0.0	0.0	0.58	0.45	6.5	74.85	41.81	16.9
12/30/90	129.44				118.12	116.53	1.59			3772.9	-22.4	174.1	0.07	1.0	12.7	0.1	0.60	0.46	6.7	74.85	41.68	16.9
01/06/91	129.42				118.06	116.42	1.64			3752.8	-20.1	173.6	0.00	0.0	0.0	0.0	0.63	0.23	3.3	74.75	41.67	16.8
01/13/91	129.48				118.12	116.49	1.63			3764.6	11.8	173.9	2.20	31.8	396.9	4.0	0.73	0.50	7.3	74.84	41.84	16.7
01/20/91	129.54				118.12	116.51	1.61			3768.4	3.7	174.0	1.84	23.8	297.4	3.0	0.63	0.43	6.3	74.80	41.71	16.7
01/27/91	129.59				118.12	116.49	1.63			3764.7	-3.6	173.9	1.18	17.1	214.0	2.1	0.61	0.42	6.1	74.70	41.79	16.8
02/03/91	129.65				118.11	116.55	1.56			3775.4	10.6	174.1	1.98	28.7	359.0	3.6	0.48	0.34	4.9	74.72	41.82	16.8
02/10/91	129.71				118.11	116.42	1.69			3753.8	-21.6	173.6	0.13	1.9	23.6	0.2	0.85	0.47	6.9			

MAGNOLIA LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 131.0 C1 = 10702300 C2 = -241883.9 C3 = 1822.08 C4 = -4.57				Effective Discharge = 92%	Measured Magnolia Elevation ft	Calculated Magnolia Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 123.2 C1 = -3783866.2 C2 = 91838.34 C3 = -742.7 C4 = 2		Magnolia Volume at Start of Week ac-feet	Change in Magnolia Volume During Week ac-feet	Magnolia Surface Area acres	Etonia Predp. in/week	Lake Surface Predp. ac-feet	Drainage area = 2178 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Magnolia Lake Evap. in/week	Magnolia Lake Evap. ac-feet	Leakance = 3.298E-04 1/day		
	Sand Hill Elevation ft	Sand Hill Discharge cfs	Sand Hill Discharge ac-feet	Effective Sand Hill Discharge ac-feet					Magnolia Discharge cfs	Magnolia Discharge ac-feet						Drainage Area Predp. ac-feet	Overland Runoff Volume ac-feet				Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
04/07/91	130.18				118.04	118.09	1.95	3695.4	-30.7	172.2	0.01	0.1	1.8	0.0	1.25	1.03	14.8	76.10	39.69	16.1			
04/14/91	130.22				118.10	118.01	2.09	3682.1	-13.4	171.9	1.11	15.9	201.3	2.0	1.31	1.07	15.4	76.24	39.77	15.9			
04/21/91	130.40				118.28	118.17	2.11	3709.5	27.5	172.5	3.43	49.1	622.0	6.2	1.03	0.84	12.1	76.42	39.75	15.8			
04/28/91	130.58				118.44	118.14	2.30	3704.2	-5.3	172.4	1.40	20.1	253.9	2.5	1.03	0.84	12.1	76.54	39.60	15.8			
05/05/91	130.76				118.46	115.97	2.49	3674.9	-29.4	171.7	0.36	5.2	85.3	0.7	1.59	1.35	19.4	76.52	39.45	15.8			
05/12/91	130.86				118.51	115.83	2.68	3650.9	-23.9	171.1	0.61	8.7	110.8	1.1	1.49	1.27	18.1	76.58	39.25	15.6			
05/19/91	130.82				118.56	115.69	2.87	3627.3	-23.6	170.5	0.80	11.4	145.1	1.5	1.73	1.47	21.0	76.57	39.12	15.5			
05/26/91	130.55				118.62	115.61	3.01	3613.8	-13.5	170.2	1.04	14.8	186.6	1.9	1.22	1.04	14.7	76.59	39.02	15.4			
06/02/91	130.48				118.67	115.70	2.97	3629.3	15.5	170.6	2.98	42.0	536.7	5.4	1.28	1.16	16.5	76.64	39.06	15.3			
06/09/91	130.58				118.72	115.66	3.06	3622.5	-6.8	170.4	1.60	22.7	290.1	2.9	1.32	1.20	17.1	76.94	36.72	15.4			
06/16/91	130.88				118.78	115.44	3.34	3584.7	-37.8	168.5	0.00	0.0	0.0	0.0	1.75	1.59	22.6	77.37	36.07	15.2			
06/23/91	130.87				119.13	115.39	3.74	3577.2	-7.5	169.3	1.61	22.7	291.9	2.9	1.42	1.29	18.3	77.51	37.99	14.9			
06/30/91	131.06				119.47	115.37	4.10	3573.7	-3.5	169.2	1.85	27.5	353.6	3.5	1.54	1.40	19.8	77.57	37.80	14.8			
07/07/91	131.23	0.34	4.73	4.35	119.82	115.24	4.58	3551.2	-22.4	168.7	0.43	6.1	78.0	0.8	1.47	1.34	18.9	77.57	37.67	14.8			
07/14/91	131.39	2.14	29.66	27.29	120.16	115.42	4.74	3581.9	30.7	169.4	1.92	27.0	348.2	3.5	0.97	0.88	12.4	77.64	37.79	14.7			
07/21/91	131.56	5.10	70.77	65.10	120.51	115.70	4.81	3629.8	47.9	170.6	0.99	14.0	179.5	1.8	1.42	1.29	18.2	77.64	38.06	14.8			
07/28/91	131.72	9.10	126.32	118.21	120.85	116.42	4.43	3754.0	124.3	173.6	2.47	35.1	447.9	4.5	1.28	1.16	16.6	77.97	38.45	15.0			
08/04/91	131.74	14.02	194.61	179.04	121.20	117.59	3.61	3960.1	208.1	178.5	3.25	47.0	569.3	5.9	0.85	0.72	10.5	78.30	39.30	15.4			
08/11/91	131.73	14.67	203.67	187.36	121.56	118.48	3.08	4119.9	159.8	182.2	0.38	5.7	66.9	0.7	1.40	1.19	17.7	78.37	40.11	16.2			
08/18/91	131.72	14.34	199.12	183.19	121.91	119.34	2.57	4278.0	158.0	185.6	0.66	10.0	119.7	1.2	1.51	1.28	19.5	78.39	40.95	16.9			
08/25/91	131.71	14.02	194.61	179.04	122.46	120.19	2.27	4438.2	160.3	186.4	0.82	12.7	148.7	1.5	1.17	0.99	15.4	78.25	41.95	17.6			
09/01/91	131.70	13.99	190.14	174.93	123.01	121.32	1.69	4654.1	215.8	194.1	4.07	64.2	738.0	7.4	1.03	0.78	12.4	78.20	43.12	18.3			
09/08/91	131.62	13.38	185.71	170.86	123.56	122.05	1.51	4796.9	142.8	197.2	0.48	7.4	83.4	0.8	1.38	1.05	17.0	78.22	43.84	19.3			
09/15/91	131.55	11.05	153.43	141.15	123.74	122.57	1.17	4898.7	102.6	199.3	0.01	0.2	1.8	0.0	1.49	1.13	16.6	78.05	44.52	20.0			
Max	132.72	56.37	762.70	720.06	125.65	127.36	4.81	45.00	624.79	5902.34	279.09	219.36	10.02	175.45	1616.96	18.17	2.72	2.23	37.79	67.78	45.77	22.52	
Min	129.42	0.00	0.00	0.00	118.04	115.24	-1.88	0.00	0.00	3551.22	-246.68	168.65	0.00	0.00	0.00	0.00	0.27	0.19	3.29	74.58	37.21	14.67	
Mean	131.63	14.91	206.69	190.43	124.26	124.13	0.1333	12.43	172.61	5223.93	-0.36	205.64	1.00	17.05	180.63	1.81	1.22	1.00	17.21	62.38	41.75	19.84	
Std.Dev.	0.52	11.77	163.36	150.29	1.39	2.02	0.79	11.06	153.56	396.25	56.66	8.45	1.26	21.67	229.02	2.29	0.45	0.42	7.19	2.85	2.12	1.33	

D10. Brooklyn Lake Long-Term Lake Stage Simulation

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793066 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.8903		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day				
	Magnolia Elevation ft	Magnolia Discharge cfs	Effective Discharge = 65%					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet						Overland Runoff Volume ac-feet	Florida Pan Evap. in/week				Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Florida Aquifer Elevation ft	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
			Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet																				
01/03/65	125.16				116.46	116.46	0.00		10772.7	0.0	670.0										88.68	27.79		
01/10/65	125.06	16.31	228.50	147.23	116.47	116.10	0.37	15.04	206.8	10535.8	-236.9	662.8	0.00	0.0	0.0	0.0	0.72	0.55	31.0	88.70	27.40	144.4		
01/17/65	124.96	14.71	204.25	132.78	116.49	115.90	0.60	8.86	123.0	10401.2	-134.6	658.3	0.40	22.1	64.0	0.6	0.62	0.48	26.4	88.70	27.20	140.7		
01/24/65	124.95	13.54	187.99	122.20	116.52	115.74	0.78	5.87	81.5	10299.8	-101.4	655.1	0.42	23.0	67.2	0.7	0.64	0.49	27.0	88.58	27.18	138.8		
01/31/65	124.90	13.12	182.23	118.45	116.54	115.65	0.89	3.93	54.6	10239.9	-59.9	653.1	1.04	56.8	166.4	1.7	1.05	0.81	44.1	88.66	26.99	136.0		
02/07/65	125.01	12.46	173.01	112.46	116.57	115.56	1.00	2.94	40.8	10184.4	-55.5	651.4	0.72	39.2	115.2	1.2	0.82	0.57	30.8	88.31	27.25	136.7		
02/14/65	125.13	13.97	193.94	126.06	116.59	115.62	0.97	2.13	29.5	10219.1	34.7	652.5	1.94	105.3	310.4	3.1	0.67	0.60	32.6	88.48	27.14	137.6		
02/21/65	125.06	15.82	219.59	142.74	116.61	115.52	1.09	2.62	36.4	10156.8	-62.3	650.5	0.05	2.7	8.0	0.1	0.91	0.63	34.1	88.52	27.00	137.3		
02/28/65	125.09	15.02	208.53	135.54	116.64	115.59	1.05	1.78	24.5	10189.7	42.9	651.9	2.03	110.0	324.8	3.2	1.21	0.83	45.3	88.75	26.84	138.2		
03/07/65	125.18	15.18	210.70	136.95	116.66	115.63	1.03	2.34	32.5	10226.8	27.1	652.7	1.95	105.9	312.0	3.1	1.28	0.83	50.8	89.02	26.81	135.6		
03/14/65	125.09	16.85	231.22	150.29	116.63	115.63	1.01	2.74	38.0	10224.8	-2.1	652.7	0.98	53.3	158.8	1.8	0.87	0.64	34.5	88.95	26.88	134.6		
03/21/65	125.22	15.18	210.70	136.95	116.61	115.59	1.02	2.71	37.6	10200.0	-24.8	651.9	1.08	58.7	172.8	1.7	1.25	0.91	49.6	89.03	26.56	135.0		
03/28/65	125.17	17.35	240.94	156.61	116.58	115.49	1.09	2.35	32.6	10136.3	-63.7	649.8	0.00	0.0	0.0	0.0	1.35	0.99	53.5	89.08	26.41	134.2		
04/04/65	125.03	16.48	228.85	148.75	116.55	115.39	1.16	1.51	21.0	10071.4	-64.9	647.7	0.00	0.0	0.0	0.0	1.31	1.10	59.6	88.96	26.43	133.0		
04/11/65	124.90	14.26	198.00	128.70	116.53	115.25	1.28	0.82	11.4	9978.0	-93.4	644.7	0.00	0.0	0.0	0.0	1.72	1.44	78.0	88.98	26.29	132.7		
04/18/65	124.75	12.46	173.01	112.46	116.50	115.07	1.43	0.14	1.9	9882.6	-115.4	640.9	0.02	1.1	3.2	0.0	2.12	1.78	95.7	88.75	26.32	131.4		
04/25/65	124.62	10.66	148.06	98.24	116.32	115.13	1.19			9904.3	41.7	642.3	2.74	146.3	438.4	4.4	1.66	1.39	74.5	88.72	26.41	130.8		
05/02/65	124.60	9.32	129.39	84.10	116.15	114.98	1.17			9904.5	-99.8	639.0	0.38	20.3	60.8	0.6	1.67	1.37	73.3	88.44	26.54	131.5		
05/09/65	124.52	9.13	126.74	82.36	115.97	114.75	1.22			9961.6	-143.0	634.3	0.00	0.0	0.0	0.0	2.15	1.76	93.9	88.31	26.44	131.5		
05/16/65	124.40	8.40	116.65	75.82	115.80	114.52	1.27			9517.9	-143.7	629.6	0.18	9.5	28.8	0.3	2.29	1.88	96.3	88.07	26.45	130.0		
05/23/65	124.26	7.42	102.97	66.93	115.62	114.27	1.35			9357.2	-160.7	624.2	0.00	0.0	0.0	0.0	2.29	1.88	98.5	87.45	26.62	129.1		
05/30/65	124.19	6.54	90.76	59.00	115.45	114.03	1.41			9212.1	-145.1	619.3	0.26	13.5	41.6	0.4	2.07	1.70	88.3	87.16	26.67	129.6		
06/06/65	124.12	5.94	82.41	53.56	115.27	113.89	1.38			9123.5	-88.6	613.3	1.46	75.4	233.6	2.3	2.07	1.76	90.8	86.98	26.91	129.0		
06/13/65	124.74	5.49	78.29	49.59	115.41	114.16	1.25			9288.8	165.3	621.9	5.75	295.3	920.0	9.2	1.38	1.17	60.2	87.33	26.83	128.6		
06/20/65	124.86	10.55	148.53	95.25	115.54	114.28	1.26			9396.2	77.4	624.5	3.08	158.6	489.6	4.9	1.18	1.00	52.0	87.43	26.85	129.3		
06/27/65	124.87	12.20	169.46	110.15	115.68	114.22	1.46			9326.2	-37.9	623.2	1.04	54.1	166.4	1.7	1.67	1.42	73.9	87.56	26.86	130.0		
07/04/65	124.83	12.08	167.71	109.01	115.82	114.09	1.72			9249.1	-79.2	620.6	0.48	24.9	76.8	0.8	1.80	1.64	85.1	87.89	26.20	128.8		
07/11/65	124.82	11.59	160.88	104.57	115.95	114.06	1.89			9227.1	-21.9	618.8	1.51	78.1	241.6	2.4	1.72	1.57	80.9	88.01	26.05	126.1		
07/18/65	124.90	11.47	159.22	103.49	116.09	114.28	1.81			9364.3	137.1	624.4	4.05	206.2	648.0	6.5	1.21	1.10	56.9	88.20	26.08	125.2		
07/25/65	124.86	12.46	173.01	112.46	116.22	114.16	2.05			9299.9	-64.3	622.3	0.55	26.6	88.0	0.9	1.69	1.54	80.0	88.34	25.84	126.2		
08/01/65	125.15	11.95	165.97	107.88	116.36	114.41	1.95			9444.1	144.2	627.1	4.14	214.7	662.4	6.6	1.16	1.04	60.4	88.72	25.99	124.6		
08/08/65	125.37	16.15	234.18	145.71	116.50	114.47	2.02			9465.6	41.5	628.5	1.62	84.7	259.2	2.6	1.40	1.27	66.6	89.15	25.32	124.9		
08/15/65	125.33	20.23	290.89	182.58	116.63	114.53	2.11			9519.8	34.0	629.8	0.92	48.2	147.2	1.5	1.57	1.43	74.8	89.38	25.15	123.4		
08/22/65	125.26	19.42	269.68	175.29	116.77	114.55	2.22			9533.2	13.5	630.1	0.78	40.9	124.8	1.2	1.70	1.55	81.2	89.44	25.11	122.7		
08/29/65	125.48	18.08	251.04	163.18	117.03	114.69	2.34			9622.3	89.1	633.0	2.54	133.4	406.4	4.1	1.86	1.69	88.9	89.57	25.12	122.6		
09/05/65	125.32	22.61	313.93	204.05	116.89	114.73	2.16			9645.2	22.9	633.6	0.14	7.4	22.4	0.2	1.46	1.24	65.5	89.61	25.12	123.3		
09/12/65	125.10	19.23	266.94	173.51	116.72	114.71	2.01			9636.0	-9.2	633.5	0.18	9.5	28.8	0.3	1.54	1.31	69.1	89.52	25.19	123.4		
09/19/65	125.06	15.33	212.89	138.38	116.61	114.69	1.92			9621.6	-14.4	633.0	0.53	28.0	84.8	0.8	1.29	1.10	57.9	89.51	25.16	123.7		
09/26/65	124.95	14.71	204.25	132.78	116.70	114.83	2.07			9685.2	-36.4	631.8	0.25	13.2	40.0	0.4	1.32	1.12	59.2	89.54	25.09	123.6		
10/03/65	125.29	13.12	182.23	118.45	116.85	114.73	2.12			9646.8	61.7	633.9	2.17	114.3	347.2	3.5	1.29	0.98	51.6	89.72	25.01	122.9		
10/10/65	125.35	18.08	251.04	163.18	116.81	114.78	2.03			9681.2	34.4	635.0	0.85	44.9	136.0	1.4	1.30	0.99	52.2	89.80	24.98	122.9		
10/17/65	125.22	19.82	275.23	178.90	116.68	114.81	1.85			9696.0	16.8	635.5	0.05	2.6	8.0	0.1	1.04	0.79	41.8	89.74	25.07	123.0		
10/24/65	125.08	17.35	240.94	156.61	116.53	114.80	1.73			9695.2	-2.8	636.4	0.08	4.2	12.8	0.1	1.00	0.78	40.3	89.56	25.24	123.5		
10/31/65	124.95	15.02	208.53	135.54	116.44	114.78	1.66			9677.5	-17.7	634.9	0.20	10.6	32.0	0.3	0.99	0.75	36.8	89.57	25.21	124.1		
11/07/65	124.86	13.12	182.23	118.45	116.42	114.72	1.65			9642.2	-35.3	633.7	0.11	5.8	17.8	0.2	0.95	0.67	35.7	89.47	25.25	124.1		
11/14/65	124.81	11.95	165.97	107.88	116.29	114.66	1.63			9601.7	-40.5	632.4	0.00	0.0	0.0	0.0	0.0	0.65	0.46	24.4	89.39	25.27	124.0	
11/21/65	124.75	11.35	157.58	102.42	116.18	114.57	1.61			9549.2	-52.5	630.6	0.00	0.0	0.0	0.0	0.0	0.83	0.59	31.1	89.35	25.22	123.9	
11/28/65	124.74	10.66	148.06	98.24	116.07	114.56	1.49			9551.8	2.6	630.7	1.10	57.8	176.0	1.8	0.80	0.57	29.8	89.23	25.35	123.3		
12/05/65	124.63	10.55	146.53	95.25	115.97	114.51	1.46			9510.1	-41.7	629.3	0.30	15.8	48.0	0.5	0.67	0.58	29.2	89.23	25.28	123.9		
12/12/65	124.65	9.42	130.74	84.98	116.02	114.40	1.62			9443.0	-67.1	627.1	0.00	0.0	0.0	0.0	0.86	0.55	28.7	89.01	25.39	123.3		
12/19/65	125.00	9.61	133.48	86.78	116.07	114.64	1.44			9590.1	147.0	632.0	3.83	200.1	612.8	6.1	0.52	0.43	22.6	89.36	25.28	123.5		
1																								

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3793966 C2 = 91909.34 C3 = -742.7 C4 = 2							Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 563.7937 C4 = -1.6903							Drainage area = 1920 Runoff Coeff. = 0.01				Leakance = 1.107E-03 1/day			
	Effective Discharge		Effective Discharge		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Volume at Start of Week ac-feet	Change in Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake Aquifer Elevation ft	Brooklyn Leakage ac-feet
	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Magnolia Discharge cfs	Magnolia Discharge ac-feet																		
04/03/66	124.90	14.11	195.98	127.37	116.19	114.94	1.25	9781.7	-96.5	838.3	0.00	0.0	0.0	233.6	2.3	1.99	1.59	80.2	90.18	24.78	123.6	
04/10/66	124.84	12.46	173.01	112.46	116.10	114.92	1.18	9767.1	-14.6	837.8	1.46	77.7	77.7	233.6	2.3	1.99	1.59	84.4	90.04	24.88	122.6	
04/17/66	124.71	11.71	162.56	105.66	115.99	114.79	1.20	9699.0	-78.1	835.2	0.08	4.3	12.8	0.1	1.46	1.23	1.63	65.2	89.93	24.86	123.0	
04/24/66	124.62	10.23	142.04	92.33	115.86	114.66	1.20	9602.6	-86.4	832.4	0.55	29.1	88.0	0.9	1.94	1.83	1.63	66.3	89.69	24.97	122.4	
05/01/66	124.55	9.32	129.39	84.10	115.72	114.47	1.25	9496.1	-116.5	826.5	0.00	0.0	0.0	0.0	0.0	1.81	1.48	78.2	89.54	24.93	122.4	
05/08/66	124.70	8.67	120.34	78.22	114.56	114.56	1.01	9536.3	52.2	830.3	3.01	157.7	481.6	4.8	1.56	1.28	1.56	67.0	89.75	24.81	121.5	
05/15/66	124.69	10.12	140.58	91.38	115.57	114.49	1.09	9494.6	-43.6	828.8	1.01	53.0	161.6	1.6	1.59	1.30	1.59	68.5	89.59	24.90	121.2	
05/22/66	124.68	10.02	139.13	90.43	115.65	114.37	1.28	9420.1	-74.6	826.3	0.60	31.4	96.0	1.0	1.77	1.45	1.77	71.1	89.54	24.83	121.4	
05/29/66	124.66	9.92	137.69	89.50	115.73	114.39	1.34	9434.2	14.1	826.8	1.93	100.7	306.8	3.1	1.37	1.12	1.37	58.6	89.62	24.77	120.6	
06/05/66	124.68	11.95	165.97	107.88	115.68	114.25	1.43	9345.0	-89.2	823.8	0.10	5.2	16.0	0.2	1.85	1.57	1.85	62.1	89.39	24.86	120.4	
06/12/66	124.78	9.92	137.69	89.50	115.82	114.39	1.43	9433.7	88.7	826.8	3.59	188.6	574.4	5.7	1.65	1.40	1.65	72.9	89.75	24.84	120.2	
06/19/66	124.80	11.00	152.74	99.28	115.78	114.42	1.36	9451.0	17.2	827.3	2.30	120.1	368.0	3.7	1.94	1.65	1.94	86.1	89.52	24.90	119.7	
06/26/66	124.70	11.23	155.95	101.37	115.63	114.28	1.35	9367.6	-83.4	824.6	0.27	14.1	43.2	0.4	1.78	1.50	1.78	78.2	89.33	24.95	121.1	
07/03/66	124.90	10.12	140.58	91.38	115.88	114.29	1.59	9370.2	2.6	824.6	1.86	96.8	297.6	3.0	1.43	1.30	1.43	67.7	89.58	24.71	120.6	
07/10/66	124.86	12.46	173.01	112.46	115.81	114.14	1.67	9276.3	-93.8	821.5	0.08	4.2	12.8	0.1	1.92	1.75	1.92	90.9	89.47	24.67	119.6	
07/17/66	124.78	11.95	165.97	107.88	115.73	114.00	1.73	9193.1	-83.2	818.7	0.35	18.1	56.0	0.6	1.93	1.76	1.93	91.0	89.36	24.64	118.8	
07/24/66	124.69	11.00	152.74	99.28	115.66	113.95	1.72	9158.8	-34.3	817.5	0.92	47.4	147.2	1.5	1.37	1.25	1.37	64.3	89.32	24.63	118.2	
07/31/66	124.61	9.92	137.69	89.50	115.57	114.04	1.53	9213.0	54.2	819.4	2.81	144.8	449.6	4.5	1.42	1.29	1.42	66.5	89.27	24.77	117.9	
08/07/66	124.68	9.22	128.05	83.24	115.77	114.01	1.78	9199.9	-13.1	818.9	1.59	82.1	254.4	2.5	1.32	1.20	1.32	62.0	89.25	24.76	118.9	
08/14/66	124.95	9.92	137.69	89.50	115.89	114.23	1.66	9232.1	132.1	823.4	4.36	224.9	697.6	7.0	1.50	1.37	1.50	70.4	89.49	24.74	118.8	
08/21/66	124.90	13.12	182.23	118.45	116.03	114.25	1.78	9347.8	15.7	823.9	1.70	88.3	272.0	2.7	1.57	1.43	1.57	74.2	89.57	24.68	119.5	
08/28/66	125.10	12.46	173.01	112.46	116.08	114.23	1.85	9331.0	-16.8	823.3	1.36	70.7	217.6	2.2	1.75	1.59	1.75	82.8	89.84	24.39	119.4	
09/04/66	124.92	15.33	212.89	136.38	116.08	114.14	1.94	9275.6	-55.4	821.5	0.00	0.0	0.0	0.0	1.72	1.46	1.72	75.9	89.71	24.43	117.8	
09/11/66	124.86	12.72	178.84	114.82	116.09	114.27	1.82	9356.4	80.8	824.2	3.08	158.5	489.6	4.9	1.61	1.54	1.61	79.7	89.84	24.43	117.7	
09/18/66	124.92	11.95	165.97	107.88	116.11	114.28	1.84	9362.4	6.0	824.4	1.50	78.0	240.0	2.4	1.45	1.23	1.45	64.1	89.65	24.43	118.2	
09/25/66	125.03	12.72	178.84	114.82	116.14	114.50	1.64	9500.5	136.1	829.0	3.67	191.0	587.2	5.9	1.25	1.06	1.25	55.3	89.74	24.76	118.2	
10/02/66	125.16	14.26	198.00	126.70	116.14	114.71	1.43	9637.0	136.5	833.5	3.25	170.4	520.0	5.2	1.18	0.90	1.18	47.0	90.05	24.66	120.7	
10/09/66	124.98	16.31	226.50	147.23	116.13	114.70	1.43	9626.8	-8.2	833.3	0.21	11.1	33.6	0.3	1.14	0.87	1.14	45.7	90.30	24.40	121.1	
10/16/66	125.01	13.54	187.99	122.20	116.08	114.71	1.38	9632.5	3.6	833.4	0.90	47.5	144.0	1.4	1.19	0.90	1.19	47.7	90.26	24.45	119.8	
10/23/66	124.85	13.97	193.94	126.05	116.02	114.67	1.35	9606.6	-23.6	832.6	0.24	12.7	38.4	0.4	1.07	0.81	1.07	42.9	90.26	24.41	120.0	
10/30/66	124.99	11.83	164.26	106.77	115.92	114.67	1.26	9607.3	-1.3	832.5	0.90	47.4	144.0	1.4	0.93	0.71	0.93	47.3	90.28	24.39	119.7	
11/06/66	124.91	13.68	189.96	123.47	115.83	114.62	1.22	9578.2	-29.2	831.6	0.08	3.2	9.6	0.1	0.97	0.69	0.97	36.3	90.08	24.56	119.6	
11/13/66	124.82	12.59	174.82	113.63	115.76	114.56	1.20	9537.9	-40.2	830.2	0.00	0.0	0.0	0.0	0.90	0.64	0.90	33.6	89.88	24.66	120.2	
11/20/66	124.72	11.47	159.22	103.49	115.63	114.47	1.17	9493.5	-54.4	828.4	0.00	0.0	0.0	0.0	1.00	0.71	1.00	37.3	89.75	24.72	120.6	
11/27/66	124.62	10.34	143.52	93.29	115.53	114.38	1.16	9424.4	-59.1	826.5	0.00	0.0	0.0	0.0	0.86	0.61	0.86	32.0	89.66	24.72	120.4	
12/04/66	124.52	9.32	129.39	84.10	115.48	114.26	1.23	9352.1	-72.4	824.0	0.18	8.4	25.6	0.3	1.04	0.86	1.04	45.1	89.33	24.93	120.0	
12/11/66	124.51	8.40	116.65	75.82	115.42	114.15	1.28	9283.1	-69.0	821.7	0.00	0.0	0.0	0.0	0.56	0.46	0.56	24.2	89.27	24.86	120.6	
12/18/66	124.54	8.31	115.45	75.04	115.34	114.13	1.22	9269.6	-13.5	821.3	0.87	45.1	139.2	1.4	0.35	0.29	0.35	15.1	89.02	25.11	119.9	
12/25/66	124.55	8.58	119.09	77.41	115.28	114.02	1.26	9205.1	-64.6	819.1	0.08	4.1	12.8	0.1	0.59	0.49	0.59	25.4	88.86	25.16	120.9	
01/01/67	124.54	8.67	120.34	78.22	115.40	113.92	1.46	9139.4	-65.7	816.9	0.14	7.2	22.4	0.2	0.77	0.59	0.77	30.6	88.87	25.05	120.8	
01/08/67	124.71	8.58	119.09	77.41	115.46	114.05	1.41	9219.3	79.9	819.6	2.83	145.5	452.8	4.5	0.70	0.54	0.70	27.7	88.88	25.19	119.8	
01/15/67	124.72	10.23	142.04	92.33	115.41	114.04	1.37	9215.2	-4.1	819.4	0.85	43.9	136.0	1.4	0.92	0.40	0.92	20.7	88.90	25.14	121.0	
01/22/67	124.69	10.34	143.52	93.29	115.35	113.95	1.40	9162.9	-52.3	817.7	0.07	3.6	11.2	0.1	0.72	0.55	0.72	28.6	88.53	25.42	120.7	
01/29/67	124.63	10.02	139.13	90.43	115.30	113.86	1.44	9104.1	-58.9	815.7	0.28	14.4	44.8	0.4	1.07	0.82	1.07	42.4	88.64	25.22	121.7	
02/05/67	124.57	9.42	130.74	84.98	115.25	113.76	1.49	9044.6	-59.5	813.6	0.08	4.1	12.8	0.1	0.80	0.55	0.80	28.3	88.72	25.04	120.4	
02/12/67	124.80	8.65	122.86	79.86	115.41	114.03	1.38	9207.7	163.1	819.2	4.40	225.0	704.0	7.0	0.84	0.56	0.84	29.6	88.91	25.12	119.1	
02/19/67	124.97	11.23	155.95	101.37	115.73	114.04	1.69	9214.3	6.6	819.4	1.16	59.9	185.6	1.9	1.01	0.70	1.01	36.0	89.13	24.91	120.6	
02/26/67	124.88	13.40	186.05	120.94	115.69	114.01	1.68	9199.7	-14.6	818.9	0.45	23.2	72.0	0.7	1.12	0.77	1.12	39.9	88.94	25.07	119.6	
03/05/67	124.81	12.20	169.46	110.15	115.67	113.94	1.73	9151.5	-46.2	817.9	0.00	0.0	0.0	0.0	1.01	0.74	1.01	38.0	89.06	24.86	120.3	
03/12/67	124.79	11.35	157.58	102.42	115.66	113.88	1.78	9114.5	-37.0	818.0	0.55	28.3	88.0	0.9	1.32	0.96	1.32	49.6	88.94	24.94	119.0	
03/19/67	124.64	11.12	154.34	100.32	115.52	113.74	1.78	9032.0	-82.5	813.2	0.00	0.0	0.0	0.0	1.70	1.24	1.70	63.7	88.70	25.04	119.1	
03/26/67	124.53	9.51	132.10	85.67	115.41	113.60	1.81	8942.5	-89.5	810.1	0.00	0.0	0.0	0.0	1.51	1.10	1.51	56.3	88.66	24.94	119.0	
04/02/67	124.47	8.49	117.67	76.61	115.34	113.47	1.87	8863.2	-79.2	807.4	0.45	2										

BROOKLYN LAKE LONG - TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2								Hmin = 115.2 C1 = 2711789.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903								Drainage area = 1920 Runoff Coeff. = 0.01				Leakance = 1.107E-03 1/day			
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet				
	Magnolia Elevation ft	Magnolia Discharge cfs				Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet														Brooklyn Discharge cfs	Brooklyn Discharge ac-feet		
07/02/67	124.52	6.54	90.78	59.00	114.28	112.09	2.17	8048.7	175.8	578.8	5.73	273.2	916.8	9.2	1.32	1.20	57.3	87.50	24.59	108.3				
07/09/67	124.48	8.40	116.66	75.82	114.20	112.11	2.09	8056.5	9.8	578.9	2.96	113.8	377.6	3.8	1.67	1.52	73.3	87.55	24.56	110.3				
07/16/67	124.40	8.14	113.07	73.50	114.10	112.12	1.98	8065.0	8.5	579.2	2.65	127.8	424.0	4.2	1.98	1.80	66.9	87.66	24.46	110.2				
07/23/67	124.44	7.42	102.97	66.93	114.08	112.03	2.03	8010.1	-54.8	577.3	0.95	45.9	152.0	1.5	1.35	1.23	56.3	87.60	24.43	109.8				
07/30/67	124.55	7.73	107.35	69.78	114.15	111.91	2.24	7944.2	-65.9	574.9	0.84	30.8	102.4	1.0	1.33	1.21	58.2	87.66	24.25	109.3				
08/06/67	124.68	8.67	120.34	78.22	114.24	111.87	2.37	7922.8	-21.4	574.1	1.35	64.7	216.0	2.2	1.34	1.22	56.4	87.72	24.15	108.1				
08/13/67	124.67	9.92	137.69	89.50	114.47	112.13	2.34	8069.5	146.7	579.4	4.30	205.7	688.0	6.9	1.10	1.00	47.9	87.86	24.27	107.5				
08/20/67	124.89	9.81	136.27	86.58	114.54	111.96	2.58	7986.0	-83.4	576.4	0.12	5.8	19.2	0.2	1.57	1.43	69.0	87.96	24.02	109.0				
08/27/67	124.87	12.33	171.22	111.30	114.58	111.88	2.70	7928.3	-57.7	574.3	0.29	13.9	46.4	0.5	1.74	1.58	76.1	88.34	23.54	107.3				
09/03/67	124.78	12.08	167.71	109.01	114.61	111.90	2.71	7939.9	11.5	574.7	1.53	73.2	244.8	2.4	1.68	1.43	68.3	88.46	23.44	104.8				
09/10/67	124.79	11.00	152.74	99.28	114.61	111.83	2.78	7900.4	-39.5	573.3	0.40	19.2	64.0	0.8	1.33	1.13	54.1	88.47	23.36	104.4				
09/17/67	124.64	11.12	154.34	100.32	114.51	111.73	2.78	7840.1	-60.3	571.1	0.01	0.5	1.8	0.0	1.41	1.20	57.3	88.36	23.37	103.8				
09/24/67	124.58	9.51	132.10	85.87	114.37	111.59	2.78	7759.4	-80.7	568.1	0.00	0.0	0.0	0.0	1.56	1.33	63.1	88.23	23.30	103.5				
10/01/67	124.54	8.94	124.14	80.99	114.26	111.53	2.75	7726.4	-33.0	568.9	0.94	44.5	150.4	1.5	1.58	1.20	56.8	88.18	23.35	102.9				
10/08/67	124.49	8.58	119.09	77.41	114.17	111.40	2.77	7654.1	-72.2	564.2	0.00	0.0	0.0	0.0	1.31	1.00	47.0	88.13	23.27	102.6				
10/15/67	124.44	8.14	113.07	73.50	114.08	111.33	2.73	7615.1	-39.1	562.7	0.89	32.4	110.4	1.1	1.24	0.94	44.3	87.93	23.40	101.8				
10/22/67	124.31	7.73	107.35	69.78	113.86	111.23	2.63	7558.8	-56.2	560.6	0.44	20.6	70.4	0.7	1.27	0.97	45.3	87.82	23.41	102.1				
10/29/67	124.24	6.75	93.69	60.90	113.61	111.09	2.52	7478.8	-80.1	557.7	0.07	3.3	11.2	0.1	1.20	0.91	42.6	87.55	23.54	101.8				
11/05/67	124.20	6.26	86.87	56.53	113.46	111.00	2.46	7431.9	-46.9	555.9	0.70	32.5	112.0	1.1	1.07	0.76	35.3	87.93	23.07	101.8				
11/12/67	124.02	6.00	83.31	54.15	113.33	110.86	2.47	7351.7	-80.2	552.9	0.00	0.47	0.0	0.0	1.06	0.75	34.9	87.30	23.56	99.4				
11/19/67	123.95	4.90	68.02	44.22	113.14	110.70	2.44	7284.9	-86.9	549.6	0.00	0.0	0.0	0.0	0.92	0.65	30.1	87.01	23.69	101.0				
11/26/67	123.91	4.50	62.48	40.61	113.00	110.53	2.47	7172.7	-92.2	546.0	0.00	0.47	0.0	0.0	0.98	0.70	31.9	87.12	23.41	100.9				
12/03/67	123.83	4.28	59.36	38.59	112.78	110.36	2.42	7076.3	-96.4	542.3	0.08	3.6	12.8	0.1	1.05	0.87	39.7	86.70	23.66	99.1				
12/10/67	123.95	3.84	53.26	34.62	112.91	110.22	2.69	7003.3	-72.9	536.5	0.14	6.3	22.4	0.2	0.39	0.32	14.6	86.85	23.37	99.5				
12/17/67	124.10	4.50	62.48	40.61	112.60	110.42	2.18	7110.1	108.8	543.6	4.01	180.3	641.8	6.4	0.61	0.51	22.8	86.99	23.53	97.8				
12/24/67	124.14	5.37	74.80	48.49	112.60	110.27	2.33	7031.1	-79.1	540.6	0.10	4.5	18.0	0.2	0.88	0.73	33.1	86.76	23.51	99.2				
12/31/67	124.18	5.62	78.01	50.71	112.57	110.24	2.33	7014.2	-16.9	536.9	1.05	47.3	168.0	1.7	0.52	0.40	18.0	86.67	23.37	96.5				
01/07/68	124.17	5.87	81.51	52.96	112.42	110.13	2.29	6955.9	-58.3	537.7	0.12	5.4	19.2	0.2	0.55	0.42	19.1	86.74	23.39	97.8				
01/14/68	124.11	5.81	80.63	52.41	112.29	110.03	2.26	6897.5	-58.4	535.4	0.10	4.5	18.0	0.2	0.52	0.40	17.9	86.67	23.36	97.5				
01/21/68	124.07	5.43	75.44	49.04	112.15	109.89	2.26	6824.8	-72.6	532.5	0.00	0.0	0.0	0.0	0.72	0.55	24.7	86.47	23.42	96.9				
01/28/68	124.02	5.19	72.10	46.86	112.01	109.77	2.24	6763.3	-61.6	530.1	0.19	8.4	30.4	0.3	0.60	0.46	20.5	86.25	23.52	96.7				
02/04/68	124.00	4.90	68.02	44.22	111.82	109.62	2.30	6694.7	-78.5	527.0	0.03	1.3	4.8	0.0	0.80	0.62	27.4	86.27	23.35	96.7				
02/11/68	123.97	4.78	66.42	43.17	111.68	109.51	2.17	6625.4	-59.3	524.6	0.39	17.1	62.4	0.6	0.82	0.57	24.8	86.24	23.27	96.4				
02/18/68	123.94	4.61	64.05	41.63	111.55	109.35	2.20	6542.4	-83.0	521.3	0.01	0.4	1.8	0.0	1.01	0.70	30.5	86.11	23.24	94.6				
02/25/68	123.91	4.44	61.70	40.10	111.42	109.30	2.12	6514.3	-28.1	520.2	1.01	43.9	161.8	1.6	0.86	0.46	19.8	85.90	23.40	93.9				
03/03/68	123.89	4.28	59.36	38.59	111.23	109.15	2.08	6439.1	-75.1	517.1	0.40	17.3	64.0	0.6	1.18	0.86	37.3	85.78	23.37	94.4				
03/10/68	123.91	4.17	57.84	37.59	111.20	109.06	2.12	6368.4	-40.7	515.5	1.09	47.0	174.4	1.7	1.06	0.77	33.3	85.84	23.24	93.7				
03/17/68	123.97	4.26	59.36	38.59	111.09	108.94	2.15	6331.0	-67.4	512.7	0.43	18.5	66.8	0.7	1.03	0.75	32.3	85.58	23.36	92.9				
03/24/68	123.89	4.61	64.05	41.63	110.86	108.74	2.12	6226.7	-104.3	508.5	0.00	0.0	0.0	0.0	1.70	1.24	53.0	85.61	23.13	92.9				
03/31/68	123.82	4.17	57.84	37.59	110.70	108.53	2.17	6121.9	-104.8	504.1	0.00	0.0	0.0	0.0	1.44	1.21	51.3	85.43	23.10	91.2				
04/07/68	123.77	3.78	52.50	34.13	110.53	108.35	2.18	6028.0	-93.9	500.2	0.26	10.9	41.6	0.4	1.39	1.17	49.1	85.37	22.98	90.3				
04/14/68	123.67	3.51	48.71	31.66	110.32	108.11	2.21	5909.5	-118.5	495.2	0.02	0.8	3.2	0.0	1.77	1.49	62.0	85.31	22.60	89.1				
04/21/68	123.53	2.96	41.09	26.71	110.06	107.85	2.21	5790.0	-129.5	489.7	0.00	0.0	0.0	0.0	1.66	1.06	66.6	84.88	22.97	87.5				
04/28/68	123.38	2.17	30.07	19.55	109.82	107.57	2.25	5646.8	-133.2	484.0	0.00	0.0	0.0	0.0	1.96	1.61	65.6	84.52	23.05	87.2				
05/05/68	123.28	1.25	17.33	11.27	109.62	107.30	2.32	5516.7	-130.1	478.3	0.53	21.4	84.8	0.8	2.33	1.91	77.1	84.53	22.77	86.5				
05/12/68	123.24	0.58	8.03	5.22	109.41	107.10	2.31	5423.3	-93.5	474.2	1.06	42.3	169.6	1.7	1.76	1.46	58.2	84.29	22.81	84.4				
05/19/68	123.24	0.29	4.09	2.86	109.29	106.86	2.43	5306.2	-117.1	468.0	0.83	32.8	132.8	1.3	2.16	1.77	70.0	84.05	22.81	83.9				
05/26/68	123.06	0.29	4.09	2.86	109.20	106.75	2.45	5257.5	-48.7	468.9	2.25	87.9	360.0	3.6	1.67	1.53	59.9	83.98	22.79	82.9				
06/02/68	123.20				109.06	106.61	2.47	5192.0	-65.6	463.9	2.01	78.2	321.6	3.2	1.95	1.66	64.5	84.12	22.49	82.5				
06/09/68	123.32				109.06	106.51	2.57	5143.2	-48.8	461.7	2.03	78.5	324.8	3.2	1.51	1.28	49.6	84.04	22.47	80.9				
06/16/68	123.33	0.85	11.84	7.70	108.88	106.30	2.58	5048.1	-65.1	457.4	1.00	36.5	160.0	1.6	1.91	1.62	62.5	84.08	22.22	80.4				
06/23/68	123.34	0.92	12.78	8.31	108.68	106.13	2.55	4970.3	-77.7	453.8	1.09	41.5	174.4	1.7	1.56	1.33	50.5	84.24	21.89	78.8				
06/30/68	123.36	0.99	13.70	8.91	108.48	105.93	2.55	4881.3	-69.0	446.7	1.18	44.6	188.8	1.9	1.96	1.78	67.4	83.94	21.99	77.0				
07/07/68	123.38	1.12	15.53	10.10	108.40	105.98	2.42	4901.5	20.2	450.6	3.40	127.4	544.0	5.4	1.35	1.23	46.0	84.14	21.84	76.7				
07/14/68	123.40	1.25	17.33	11.27	108.36	106.00	2.36	4909.8	8.3	451.0	2.78	104.4	444.8	4.4	1.04	0.95	35.5	84.14	21.86	76.3				
07/21/68	123.42	1.38	19.10	12.42	108.31	105.85	2.46	4844.4	-65.4	447.9	1.43													

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2				Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 115.2 C1 = 2711769.8 C2 = -66513.29 C3 = 563.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day			
	Magnoia Elevation ft	Magnoia Discharge cfs	Magnoia Discharge ac-feet	Effective Magnoia Discharge ac-feet					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Florida Pan Evap. in/week	Florida Lake Evap. in/week				Florida Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet
10/06/88	124.30	6.69	92.98	60.37	108.49	105.22	3.27	4588.6	-46.0	434.8	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.41	1.07	39.0	85.44	19.78	67.4			
10/13/88	124.42	7.34	101.90	66.23	108.65	105.26	3.39	4584.3	17.6	435.8	1.30	47.1	208.0	2.1	1.13	0.86	31.1	1.13	0.86	31.1	85.58	19.68	66.7			
10/20/88	124.46	7.59	105.41	68.52	109.01	105.52	3.49	4697.4	113.1	441.0	3.48	126.7	558.4	5.6	0.77	0.59	21.2	0.59	0.77	21.2	85.78	19.74	66.5			
10/27/88	124.49	7.85	109.04	70.87	109.03	105.47	3.56	4677.5	-19.9	440.1	0.18	6.6	28.8	0.3	1.08	0.82	30.2	1.08	0.82	30.2	85.79	19.68	67.5			
11/03/88	124.52	8.12	112.78	73.31	109.06	105.43	3.55	4658.4	-19.1	439.2	0.00	0.0	0.0	0.0	0.0	0.97	0.69	0.97	0.69	25.3	85.88	19.55	67.2			
11/10/88	124.49	8.40	116.65	75.82	109.06	105.56	3.50	4717.1	58.7	441.9	1.92	70.3	307.2	3.1	0.92	0.65	23.9	0.92	0.65	23.9	85.88	19.68	66.6			
11/17/88	124.46	8.13	112.66	73.37	109.06	105.56	3.48	4726.6	8.5	442.4	0.59	21.7	94.4	0.9	0.73	0.52	19.1	0.73	0.52	19.1	85.73	19.65	67.4			
11/24/88	124.43	7.87	109.23	71.00	109.08	105.57	3.51	4719.1	-7.5	442.0	0.24	8.8	38.4	0.4	0.75	0.53	19.6	0.75	0.53	19.6	85.71	19.66	68.1			
12/01/88	124.39	7.61	105.99	68.70	109.08	105.51	3.57	4695.6	-23.5	440.9	0.00	0.0	0.0	0.0	0.0	0.79	0.66	0.79	0.66	24.2	85.58	19.93	68.1			
12/08/88	124.36	7.36	102.25	66.46	109.02	105.46	3.56	4673.0	-22.6	439.9	0.21	7.7	33.6	0.3	0.95	0.79	26.0	0.95	0.79	26.0	85.44	20.02	68.1			
12/15/88	124.33	7.12	98.92	64.30	109.02	105.42	3.50	4654.2	-18.8	439.0	0.17	6.2	27.2	0.3	0.70	0.58	21.3	0.70	0.58	21.3	85.56	19.86	68.3			
12/22/88	124.29	6.89	95.69	62.20	108.86	105.36	3.50	4626.4	-27.9	437.6	0.00	0.0	0.0	0.0	0.0	0.74	0.61	0.74	0.61	22.5	85.50	19.86	67.6			
12/29/88	124.25	6.62	91.85	59.70	108.79	105.36	3.43	4627.6	1.4	437.7	0.74	27.0	118.4	1.2	0.66	0.52	19.1	0.66	0.52	19.1	85.34	20.02	67.4			
01/05/89	124.21	6.35	88.14	57.29	108.81	105.36	3.43	4636.6	8.8	438.1	0.91	33.2	145.6	1.5	0.54	0.42	15.2	0.54	0.42	15.2	85.31	20.07	67.9			
01/12/89	124.18	6.09	84.55	54.98	108.78	105.35	3.41	4622.6	-14.0	437.5	0.43	15.7	68.8	0.7	0.61	0.47	17.1	0.61	0.47	17.1	85.45	19.90	68.2			
01/19/89	124.14	5.84	81.07	52.70	108.69	105.28	3.41	4590.8	-31.9	435.9	0.03	1.1	4.8	0.0	0.65	0.50	18.2	0.65	0.50	18.2	85.39	19.99	67.5			
01/26/89	124.10	5.60	77.69	50.50	108.61	105.21	3.40	4563.4	-27.3	434.6	0.14	5.1	22.4	0.2	0.57	0.44	15.9	0.57	0.44	15.9	85.15	20.06	67.2			
02/02/89	124.06	5.36	74.39	48.35	108.56	105.12	3.44	4524.7	-38.7	432.7	0.00	0.0	0.0	0.0	0.0	0.78	0.54	0.78	0.54	18.5	84.99	20.13	67.6			
02/09/89	124.02	5.13	71.17	46.26	108.50	105.19	3.31	4552.5	27.9	434.1	1.84	66.4	294.4	2.9	0.81	0.56	20.2	0.81	0.56	20.2	85.07	20.12	67.5			
02/16/89	124.07	4.90	68.02	44.22	108.65	105.30	3.35	4601.6	49.1	436.4	2.43	87.9	388.8	3.9	0.77	0.53	19.2	0.77	0.53	19.2	85.29	20.01	67.7			
02/23/89	124.12	5.19	72.10	46.88	108.59	105.24	3.35	4576.1	-25.5	435.2	0.32	11.6	51.2	0.5	0.67	0.46	16.8	0.67	0.46	16.8	85.13	20.11	67.7			
03/02/89	124.17	5.49	76.29	49.59	108.52	105.14	3.38	4533.1	-43.0	433.1	0.01	0.4	1.6	0.0	0.95	0.69	25.2	0.95	0.69	25.2	85.16	19.98	67.9			
03/09/89	124.22	5.81	80.63	52.41	108.52	105.18	3.34	4550.8	17.8	434.0	1.42	51.3	227.2	2.3	0.80	0.58	21.1	0.80	0.58	21.1	85.21	19.97	67.1			
03/16/89	124.27	6.13	85.12	55.33	108.61	105.22	3.39	4567.7	16.9	434.8	1.46	52.8	233.6	2.3	1.00	0.73	26.4	1.00	0.73	26.4	85.08	20.14	67.2			
03/23/89	124.32	6.47	89.80	58.37	108.62	105.25	3.57	4579.9	12.2	435.4	1.21	43.8	193.8	1.9	0.91	0.66	24.1	0.91	0.66	24.1	85.53	19.72	67.9			
03/30/89	124.31	6.82	94.68	61.54	108.76	105.25	3.51	4590.1	0.2	435.4	1.32	47.9	211.2	2.1	1.47	1.23	44.8	1.47	1.23	44.8	85.44	19.81	66.6			
04/06/89	124.30	6.75	93.69	60.90	108.75	105.12	3.63	4524.7	-55.3	432.7	0.00	0.0	0.0	0.0	1.82	1.36	46.4	1.82	1.36	46.4	85.45	19.67	66.9			
04/13/89	124.20	6.66	92.71	60.26	108.63	104.96	3.64	4467.5	-57.2	430.0	0.00	0.0	0.0	0.0	1.70	1.43	51.5	1.70	1.43	51.5	85.36	19.63	66.0			
04/20/89	124.18	6.00	83.31	54.15	108.60	104.95	3.65	4447.8	-19.7	429.0	0.91	32.6	145.8	1.5	1.41	1.18	42.4	1.41	1.18	42.4	85.30	19.65	65.4			
04/27/89	124.04	5.67	81.51	52.98	108.39	104.79	3.60	4381.2	-66.6	425.7	0.00	0.0	0.0	0.0	1.85	1.52	54.2	1.85	1.52	54.2	85.19	19.60	65.3			
05/04/89	124.18	5.02	69.64	45.27	108.38	104.71	3.67	4345.6	-35.6	424.0	0.67	23.8	107.2	1.1	1.41	1.16	41.0	1.41	1.16	41.0	84.94	19.77	64.7			
05/11/89	124.18	5.87	81.51	52.98	108.26	104.55	3.71	4278.3	-67.3	420.6	0.00	0.0	0.0	0.0	1.91	1.57	55.3	1.91	1.57	55.3	84.69	19.86	65.0			
05/18/89	124.20	5.87	81.51	52.98	108.35	104.57	3.78	4289.9	8.6	421.1	1.81	63.4	289.8	2.9	1.80	1.31	46.0	1.80	1.31	46.0	84.63	19.94	64.8			
05/25/89	124.32	6.00	83.31	54.15	108.26	104.48	3.78	4251.2	-35.7	419.3	0.47	16.5	75.2	0.8	1.46	1.20	42.0	1.46	1.20	42.0	84.50	19.98	65.1			
06/01/89	124.22	6.82	94.68	61.54	108.15	104.36	3.79	4198.6	-52.6	416.7	0.02	0.7	3.2	0.0	1.68	1.43	49.9	1.68	1.43	49.9	84.49	19.87	65.0			
06/08/89	124.20	6.13	85.12	55.33	108.01	104.33	3.68	4187.1	-11.6	416.1	1.55	53.6	246.0	2.5	2.00	1.70	59.0	2.00	1.70	59.0	84.38	19.95	64.2			
06/15/89	124.12	6.00	83.31	54.15	107.86	104.25	3.61	4154.8	-32.3	414.5	0.74	25.7	116.4	1.2	1.66	1.41	48.9	1.66	1.41	48.9	84.36	19.89	64.3			
06/22/89	124.12	5.49	76.29	49.59	107.69	104.13	3.56	4104.0	-50.8	411.9	0.46	15.9	73.6	0.7	1.81	1.54	53.1	1.81	1.54	53.1	84.16	19.97	63.9			
06/29/89	124.10	5.49	76.29	49.59	107.49	103.94	3.55	4025.6	-78.4	407.9	0.02	0.7	3.2	0.0	2.08	1.89	65.0	2.08	1.89	65.0	83.84	20.10	63.8			
07/06/89	124.02	5.37	74.60	48.49	107.32	103.77	3.55	3959.5	-66.0	404.5	0.28	9.5	44.8	0.4	1.97	1.79	60.9	1.97	1.79	60.9	83.73	20.04	63.5			
07/13/89	124.00	4.90	68.02	44.22	107.21	103.73	3.48	3943.0	-16.5	403.6	1.51	50.9	241.6	2.4	1.67	1.52	51.2	1.67	1.52	51.2	83.67	20.06	62.8			
07/20/89	124.00	4.78	66.42	43.17	107.10	103.82	3.28	3976.9	33.9	405.4	2.89	97.2	462.4	4.6	1.58	1.44	48.4	1.58	1.44	48.4	83.64	20.18	62.8			
07/27/89	124.10	4.78	66.42	43.17	107.20	103.75	3.45	3949.8	-27.0	404.0	1.12	37.8	179.2	1.8	1.51	1.37	46.4	1.51	1.37	46.4	83.78	19.97	63.4			
08/03/89	124.20	5.37	74.60	48.49	107.26	103.75	3.51	3949.5	-0.3	404.0	1.58	53.2	252.8	2.5	1.37	1.25	42.0	1.37	1.25	42.0	83.67	19.86	62.5			
08/10/89	124.44	6.00	83.31	54.15	107.19	103.93	3.26	4024.2	74.7	407.8	3.39	114.1	542.4	5.4	1.20	1.09	36.6	1.20	1.09	36.6	83.96	19.97	62.3			
08/17/89	124.40	7.73	107.35	69.78	107.27	103.96	3.29	4041.5	17.3	408.7	1.36	46.2	217.6	2.2	1.22	1.11	37.7	1.22	1.11	37.7	84.01	19.97	63.1			
08/24/89	124.54	7.42	102.97	66.93	107.40	104.04	3.36	4088.5	24.9	410.0	1.70	57.9	272.0	2.7	1.27	1.16	39.4	1.27	1.16	39.4	84.36	19.68	63.3			
08/31/89	124.44	8.58	119.09	77.41	107.47	104.09	3.38	4088.5	22.1	411.1	1.20	41.0	182.0	1.9	1.23	1.05	35.7	1.23	1.05	35.7	84.46	19.63	62.5			
09/07/89	124.45	7.73	107.35	69.78	107.34	104.23	3.11	4147.6	59.1	414.1	2.51	86.0	401.8	4.0	1.31	1.11										

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2							Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 583.7937 C4 = -1.8903							Drainage area = 1820 Runoff Coeff. = 0.01			Leakance = 1.107E-03 1/day		
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
	Magnolia Elevation ft	Magnolia Discharge cfs																		
01/04/70	125.00	14.71	204.25	132.78	109.86	108.65	3.21	5209.0	82.1	464.7	0.89	34.2	142.4	1.4	0.49	0.38	14.5	86.38	20.29	71.8
01/11/70	125.18	13.82	191.94	124.78	110.26	108.83	3.33	5336.8	129.8	470.5	2.33	90.2	372.8	3.7	0.53	0.41	15.8	86.56	20.38	73.1
01/18/70	125.20	16.65	231.22	150.29	110.57	107.12	3.45	5432.6	83.7	474.6	0.65	25.5	104.0	1.0	0.29	0.22	8.8	86.90	20.22	74.3
01/25/70	125.16	17.00	236.03	153.42	110.78	107.28	3.52	5497.7	65.2	477.5	0.10	4.0	16.0	0.2	0.59	0.45	18.0	86.93	20.33	74.4
02/01/70	125.10	16.31	226.50	147.23	111.56	107.40	4.16	5564.9	67.2	480.4	0.35	13.9	56.0	0.8	0.70	0.48	19.2	86.87	20.53	75.3
02/08/70	125.70	15.33	212.89	138.38	111.95	108.04	3.91	5678.0	313.1	493.9	6.47	259.0	1035.2	10.4	0.86	0.48	18.2	87.88	20.16	76.5
02/15/70	125.62	26.12	360.50	253.62	112.87	108.36	4.31	6032.5	154.5	500.4	0.02	0.8	3.2	0.0	0.81	0.56	23.0	87.90	20.46	77.2
02/22/70	125.68	26.00	360.96	254.62	113.09	108.71	4.38	6212.8	180.3	507.9	1.13	47.1	180.8	1.8	0.83	0.57	23.9	88.04	20.67	79.4
03/01/70	125.54	27.58	382.82	248.90	113.49	109.02	4.47	6368.1	155.3	514.3	0.30	12.7	48.0	0.5	0.82	0.60	25.3	88.29	20.73	81.4
03/08/70	125.50	24.01	333.38	216.70	114.02	109.38	4.66	6548.2	180.1	521.5	1.64	70.3	262.4	2.6	0.86	0.63	26.9	88.44	20.92	82.6
03/15/70	125.40	23.07	320.30	208.19	114.32	109.58	4.74	6661.8	113.6	528.1	0.63	27.4	100.8	1.0	1.21	0.88	38.4	88.37	21.21	84.6
03/22/70	125.28	20.86	289.57	188.22	114.58	109.71	4.85	6732.3	70.5	528.9	0.08	2.6	9.6	0.1	1.06	0.77	33.9	88.49	21.22	86.5
03/29/70	125.58	18.48	256.24	166.58	115.31	110.22	5.09	7002.1	269.8	539.5	5.22	230.1	835.2	8.4	1.30	1.09	48.1	88.75	21.47	87.0
04/05/70	125.70	24.99	346.93	225.50	115.81	110.57	5.24	7194.9	192.7	546.9	2.19	86.5	350.4	3.5	1.19	1.00	44.9	89.18	21.39	88.8
04/12/70	125.68	28.12	390.50	253.82	116.11	110.83	5.28	7334.2	139.3	552.2	0.68	31.0	106.8	1.1	1.46	1.23	55.9	89.30	21.53	90.7
04/19/70	125.52	27.58	382.82	248.90	116.14	111.00	5.14	7427.1	83.0	555.7	0.00	0.0	0.0	0.0	1.85	1.39	63.6	89.52	21.48	92.2
04/26/70	125.38	23.54	326.78	212.41	116.12	111.12	5.00	7497.6	70.5	556.4	0.11	5.1	17.6	0.2	1.44	1.18	54.7	89.44	21.68	92.5
05/03/70	125.18	20.44	283.75	184.44	115.99	111.17	4.82	7524.5	26.9	559.4	0.00	0.0	0.0	0.0	1.67	1.37	63.7	89.21	21.98	93.9
05/10/70	125.02	16.65	231.22	150.29	115.78	111.14	4.64	7508.6	-17.8	558.7	0.05	2.3	8.0	0.1	1.97	1.62	75.3	88.98	22.18	95.2
05/17/70	124.86	14.11	195.98	127.37	115.61	111.33	4.28	7611.6	105.0	562.6	3.25	151.3	520.0	5.2	2.17	1.78	82.8	88.86	22.47	96.1
05/24/70	124.70	11.95	165.97	107.88	115.64	111.27	4.37	7578.5	-33.1	561.4	0.39	18.3	62.4	0.8	1.81	1.32	61.9	88.90	22.37	98.0
05/31/70	125.10	10.12	140.58	91.38	115.70	111.44	4.26	7678.4	99.9	565.1	3.24	151.6	518.4	5.2	1.28	1.09	50.9	88.61	22.63	97.3
06/07/70	124.98	15.33	212.89	138.38	115.62	111.50	4.12	7707.3	28.8	566.2	1.11	52.3	177.8	1.8	1.61	1.37	64.4	88.78	22.74	99.2
06/14/70	124.90	13.54	187.99	122.20	115.45	111.43	4.02	7699.9	-37.4	564.8	0.18	8.5	28.8	0.3	1.71	1.45	66.6	88.58	22.85	99.8
06/21/70	124.84	12.48	173.01	112.48	115.41	111.38	4.03	7644.4	-25.5	563.8	0.61	28.7	97.6	1.0	1.69	1.44	67.8	88.44	22.94	100.0
06/28/70	125.20	11.71	162.56	105.66	115.73	111.66	4.07	7602.9	156.5	569.7	4.63	217.5	740.8	7.4	1.98	1.53	71.8	88.53	23.13	100.3
07/05/70	125.10	17.00	236.03	153.42	115.69	111.71	3.97	7628.7	25.9	570.6	0.90	42.7	144.0	1.4	1.61	1.47	69.6	88.66	23.05	102.2
07/12/70	125.18	15.33	212.89	138.38	115.76	111.91	3.85	7941.7	113.0	574.8	2.80	133.1	448.0	4.5	1.41	1.28	61.0	88.62	23.29	102.0
07/19/70	125.10	16.31	226.50	147.23	115.71	111.87	3.84	7921.3	-20.5	574.0	0.10	4.8	16.0	0.2	1.58	1.44	68.9	88.48	23.41	103.8
07/26/70	125.06	15.33	212.89	138.38	115.61	112.06	3.53	8042.4	121.1	578.4	2.93	140.2	468.8	4.7	1.33	1.21	57.9	88.41	23.67	104.2
08/02/70	125.08	14.71	204.25	132.78	115.54	112.06	3.48	8032.0	-10.4	578.1	0.63	30.4	100.8	1.0	1.56	1.42	68.4	88.36	23.70	106.1
08/09/70	125.30	15.02	208.53	135.54	115.70	112.02	3.88	8005.6	-28.4	577.1	0.21	10.1	33.6	0.3	1.51	1.37	66.2	88.63	23.39	106.2
08/16/70	125.50	18.84	261.54	170.00	115.78	112.64	3.12	8371.8	396.2	590.2	6.52	313.6	1043.2	10.4	0.53	0.48	23.2	88.66	23.98	104.6
08/23/70	125.58	23.07	320.30	208.19	115.88	112.94	3.04	8484.5	112.7	594.2	1.69	80.2	290.8	2.8	1.53	1.39	68.5	88.92	23.92	109.7
08/30/70	125.52	24.99	346.93	225.50	115.88	113.15	2.73	8672.8	188.3	600.8	2.44	120.8	390.4	3.9	1.23	1.05	51.8	88.99	24.26	110.2
09/06/70	125.48	23.54	326.78	212.41	116.09	113.25	2.84	8734.7	61.9	603.0	0.69	34.5	110.4	1.1	1.72	1.46	73.2	89.08	24.19	113.0
09/13/70	125.44	22.18	307.67	199.99	116.06	113.32	2.74	8775.4	40.8	604.4	0.14	7.0	22.4	0.2	1.25	1.06	53.4	89.14	24.18	113.1
09/20/70	125.34	21.72	301.53	195.99	116.00	113.45	2.55	8851.2	75.8	607.0	1.02	51.4	163.2	1.6	1.40	1.19	59.9	89.14	24.31	113.3
09/27/70	125.18	19.62	272.44	177.09	115.72	113.48	2.24	8872.3	21.1	607.7	0.02	1.0	3.2	0.0	1.11	0.84	42.7	89.05	24.43	114.4
10/04/70	125.00	16.65	231.22	150.29	115.72	113.45	2.27	8952.0	-20.2	607.0	0.00	0.0	0.0	0.0	1.44	1.09	55.4	88.84	24.61	115.1
10/11/70	124.86	13.82	191.94	124.78	115.40	113.37	2.03	8908.8	-45.2	605.5	0.00	0.0	0.0	0.0	1.41	1.07	54.2	88.81	24.56	115.8
10/18/70	124.88	11.95	165.97	107.88	115.27	113.27	2.00	8746.9	-59.9	603.4	0.00	0.0	0.0	0.0	1.37	1.04	52.5	88.64	24.63	115.3
10/25/70	124.82	12.20	169.46	110.15	115.28	113.22	1.94	8773.6	28.7	604.3	1.32	66.4	211.2	2.1	0.96	0.73	36.7	88.53	24.79	115.2
11/01/70	124.80	11.47	159.22	103.49	115.19	113.30	1.89	8763.3	-10.3	603.0	0.65	32.7	104.0	1.0	0.88	0.62	31.5	88.34	24.86	116.1
11/08/70	124.70	11.23	155.95	101.37	115.02	113.22	1.80	8715.6	-47.7	602.3	0.00	0.0	0.0	0.0	0.90	0.64	32.2	88.13	25.09	116.9
11/15/70	124.66	10.12	140.58	91.38	114.88	113.14	1.74	8668.2	-47.4	600.7	0.12	6.0	19.2	0.2	0.78	0.55	27.8	87.96	25.16	117.2
11/22/70	124.60	9.71	134.87	87.66	114.81	113.05	1.76	8612.4	-55.8	598.7	0.00	0.0	0.0	0.0	0.74	0.53	26.3	87.86	25.19	117.2
11/29/70	124.52	9.13	128.74	82.36	114.64	112.95	1.69	8551.3	-61.2	596.6	0.03	1.5	4.8	0.0	0.68	0.56	26.2	87.55	25.40	118.9
12/06/70	124.52	8.40	116.65	75.82	114.49	112.83	1.68	8479.9	-71.3	594.1	0.00	0.0	0.0	0.0	0.72	0.60	29.7	87.41	25.42	117.5
12/13/70	124.46	8.40	116.65	75.82	114.39	112.70	1.69	8407.1	-72.9	591.5	0.00	0.0	0.0	0.0	0.77	0.64	31.6	87.34	25.36	117.1
12/20/70	124.48	7.89	109.80	71.24	114.30	112.63	1.67	8362.4	-44.7	589.9	0.49	24.2	78.4	0.8	0.80	0.50	24.5	87.24	25.39	116.3
12/27/70	124.48	8.08	111.91	72.74	114.21	112.54	1.67	8311.9	-50.5	588.1	0.30	14.7	48.0	0.5	0.59	0.45	22.3	87.37	25.17	116.1
01/03/71	124.50	8.08	111.91	72.74	114.18	112.55	1.63	8316.5	4.5	588.3	1.36	66.7	217.6	2.2	0.59	0.45	22.3	87.16	25.39	114.6
01/10/71	124.68	8.23	114.25	74.27	114.26	112.63	1.63	8361.2	44.7	589.9	1.92	94.1	307.2	3.1	0.29	0.22	10.9	87.19	25.44	115.8
01/17/71	124.68	9.92	137.69	89.50	114.18	112.56	1.62	8322.7	-38.5	588.5	0.18	8.8	28.8	0.3						

BROOKLYN LAKE LONG - TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3793968 C2 = 91939.34 C3 = -742.7 C4 = 2					Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 115.2 C1 = 2711769.8 C2 = -89513.29 C3 = 593.7937 C4 = -1.8903					Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. In/week	Brooklyn Lake Evap. In/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day			
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet	Brooklyn Discharge cfs					Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Pred. In/week	Lake Surface Pred. ac-feet	Drainage Area Pred. ac-feet				Overland Runoff Volume ac-feet	Florida Acqifer Elevation elev	Lake - Florida Acqifer Elevation ft	Brooklyn Leakage ac-feet
04/04/71	124.80	9.51	132.10	85.87	114.01	111.91	2.10	7945.9	-76.6	574.9	0.10	4.8	16.0	0.2	1.35	1.13	54.6	86.97	24.94	112.8			
04/11/71	124.58	8.13	126.74	82.38	113.92	111.96	1.96	7975.0	29.2	576.0	2.39	114.5	382.4	3.8	1.50	1.26	60.4	86.71	25.25	111.2			
04/18/71	124.50	8.94	124.14	80.89	113.82	111.80	2.02	7878.0	-87.0	572.4	0.00	0.0	0.0	0.0	1.61	1.35	64.9	86.72	25.08	112.8			
04/25/71	124.48	8.23	114.25	74.27	113.72	111.63	2.09	7783.5	-94.5	569.0	0.19	9.1	30.4	0.3	1.71	1.40	66.9	86.70	24.93	111.3			
05/02/71	124.48	7.89	109.80	71.24	113.66	111.50	2.16	7710.2	-73.3	566.3	0.46	21.8	73.6	0.7	1.47	1.21	57.2	86.59	24.91	110.0			
05/09/71	124.30	8.06	111.91	72.74	113.51	111.35	2.16	7624.5	-85.7	563.1	0.43	20.3	66.8	0.7	1.81	1.48	70.0	86.30	25.05	109.4			
05/16/71	124.38	6.68	92.71	60.26	113.38	111.26	2.12	7575.1	-49.4	561.3	1.16	54.4	185.6	1.9	1.47	1.21	56.6	86.26	25.00	109.3			
05/23/71	124.28	7.26	100.84	65.54	113.16	111.05	2.11	7458.5	-116.7	556.9	0.02	0.9	3.2	0.0	1.94	1.59	74.4	85.94	25.11	108.6			
05/30/71	124.30	6.54	90.76	59.00	113.00	111.02	1.98	7438.0	-20.5	556.1	2.09	97.0	334.4	3.3	1.81	1.54	71.4	85.78	25.24	108.4			
06/06/71	124.18	6.68	82.71	60.26	112.78	110.82	1.96	7327.3	-110.6	551.9	0.20	9.3	32.0	0.3	1.82	1.55	71.7	85.49	25.33	108.8			
06/13/71	124.20	5.67	81.51	52.98	112.66	110.64	2.02	7230.4	-96.9	548.2	0.36	16.6	57.6	0.6	1.50	1.28	56.6	85.46	25.18	108.4			
06/20/71	124.28	6.00	83.31	54.15	112.58	110.54	2.02	7176.6	-53.8	546.2	1.45	69.2	232.0	2.3	1.79	1.52	69.5	85.39	25.15	107.0			
06/27/71	124.24	6.54	90.76	59.00	112.34	110.45	1.89	7129.2	-47.5	544.4	1.46	66.5	233.6	2.3	1.66	1.51	66.8	85.19	25.26	106.5			
07/04/71	124.20	6.26	86.97	56.53	112.27	110.32	1.95	7055.2	-73.9	541.5	0.67	30.4	107.2	1.1	1.34	1.22	55.3	85.21	25.11	106.6			
07/11/71	124.36	6.00	83.31	54.15	112.25	110.26	1.99	7023.0	-32.3	540.3	1.63	62.6	292.8	2.9	1.62	1.47	66.5	85.21	25.05	106.4			
07/18/71	124.42	7.11	96.75	64.19	112.23	110.14	2.09	6958.8	-64.1	537.6	1.01	45.5	161.6	1.6	1.72	1.57	70.5	85.18	24.96	104.9			
07/25/71	124.40	7.57	105.14	68.34	112.10	110.08	2.01	6833.8	-25.0	536.8	1.25	56.0	200.0	2.0	1.16	1.06	47.3	85.24	24.85	104.1			
08/01/71	124.46	7.42	102.97	66.93	111.92	110.16	1.76	6671.4	37.6	538.3	2.89	129.3	482.4	4.6	1.47	1.34	59.8	85.13	25.03	103.4			
08/08/71	124.40	7.89	109.80	71.24	111.86	110.12	1.74	6650.9	-20.5	537.5	1.67	74.9	267.2	2.7	1.59	1.45	64.9	85.07	25.05	104.5			
08/15/71	124.60	7.42	102.97	66.93	112.11	110.23	1.88	7005.8	54.9	539.6	3.02	135.3	483.2	4.8	1.17	1.06	47.7	85.18	25.05	104.4			
08/22/71	124.84	9.13	126.74	82.38	112.13	110.41	1.72	7106.4	100.5	543.5	3.60	170.9	606.0	6.1	1.32	1.20	54.0	85.25	25.16	104.8			
08/29/71	124.86	11.71	162.56	105.66	112.17	110.46	1.71	7131.9	25.5	544.5	1.52	68.8	243.2	2.4	1.18	1.00	45.4	85.36	25.10	106.0			
09/05/71	124.84	11.95	165.97	107.86	112.21	110.46	1.73	7140.8	9.0	544.8	1.25	56.7	200.0	2.0	1.34	1.14	51.7	85.34	25.14	105.9			
09/12/71	125.12	11.71	162.56	105.66	112.48	110.56	1.92	7185.2	44.3	546.5	1.98	89.9	316.8	3.2	1.25	1.06	48.2	85.57	24.99	106.2			
09/19/71	125.22	15.65	217.34	141.27	112.67	110.54	2.13	7174.5	-10.7	546.1	0.09	4.1	14.4	0.1	1.30	1.11	50.3	85.64	24.90	105.9			
09/26/71	125.08	17.35	240.94	156.61	112.64	110.56	2.06	7199.4	24.9	547.1	0.44	20.0	70.4	0.7	1.36	1.03	47.0	85.63	24.95	105.4			
10/03/71	124.86	15.02	208.53	135.54	112.62	110.55	2.07	7180.9	-18.4	546.4	0.00	0.0	0.0	0.0	1.39	1.06	48.2	85.30	25.25	105.8			
10/10/71	124.88	11.95	165.97	107.86	112.60	110.63	1.97	7226.0	45.0	548.1	1.89	86.1	302.4	3.0	1.30	0.99	45.0	85.61	25.02	106.9			
10/17/71	124.96	12.20	169.46	110.15	112.65	110.71	1.94	7266.9	40.9	549.6	1.32	60.3	211.2	2.1	0.73	0.55	25.3	85.56	25.15	106.3			
10/24/71	124.96	13.26	184.13	119.69	112.60	110.73	1.87	7280.0	13.2	550.1	0.74	33.9	118.4	1.2	0.99	0.75	34.5	85.64	25.09	107.1			
10/31/71	124.88	13.26	184.13	119.69	112.52	110.75	1.77	7292.5	12.5	550.6	0.51	23.4	81.6	0.8	0.75	0.53	24.4	85.56	25.19	107.0			
11/07/71	124.88	12.20	169.46	110.15	112.46	110.71	1.75	7270.2	-22.3	549.6	0.32	14.7	51.2	0.5	1.23	0.87	40.1	85.49	25.22	107.5			
11/14/71	124.80	12.20	169.46	110.15	112.32	110.68	1.64	7250.8	-19.4	549.0	0.09	4.1	14.4	0.1	0.81	0.56	26.3	85.38	25.30	107.5			
11/21/71	124.72	11.23	155.95	101.37	112.20	110.63	1.57	7222.6	-28.2	547.9	0.12	5.5	19.2	0.2	0.85	0.60	27.6	85.46	25.17	107.7			
11/28/71	124.64	10.34	143.52	93.29	112.29	110.57	1.71	7190.6	-32.0	546.7	0.06	2.7	9.6	0.1	0.56	0.46	21.2	85.39	25.16	106.9			
12/05/71	124.95	9.51	132.10	85.87	112.52	110.82	1.70	7330.3	139.7	552.0	3.99	161.8	638.4	6.4	0.73	0.61	27.6	85.42	25.40	106.7			
12/12/71	124.99	13.12	182.23	118.45	112.57	110.82	1.75	7326.9	-1.3	552.0	0.08	3.7	12.8	0.1	0.39	0.32	14.9	85.59	25.23	106.7			
12/19/71	124.92	13.68	189.96	123.47	112.62	110.79	1.83	7314.5	-14.5	551.4	0.02	0.9	3.2	0.0	0.81	0.67	30.9	85.60	25.19	106.0			
12/26/71	125.04	12.72	176.64	114.82	112.70	110.83	1.87	7332.9	18.4	552.1	0.64	29.4	102.4	1.0	0.54	0.42	19.1	85.66	25.17	107.7			
01/02/72	124.92	14.41	200.06	130.04	112.71	110.84	1.87	7340.7	7.8	552.4	0.23	10.6	36.8	0.4	0.72	0.55	25.5	85.90	24.94	107.7			
01/09/72	124.88	12.72	176.64	114.82	112.67	110.87	1.80	7355.3	14.6	553.0	0.60	27.6	86.0	1.0	0.62	0.48	22.0	85.98	24.89	106.8			
01/16/72	124.86	12.20	169.46	110.15	112.60	110.96	1.82	7417.6	62.5	555.4	1.73	79.7	276.6	2.8	0.66	0.51	23.4	86.01	24.97	106.7			
01/23/72	124.90	11.95	165.97	107.86	112.69	111.07	1.82	7466.7	48.9	557.2	1.46	67.6	233.6	2.3	0.60	0.46	21.4	86.14	24.93	107.5			
01/30/72	124.90	12.46	173.01	112.46	112.99	111.11	1.88	7491.7	24.9	558.1	0.88	40.9	140.8	1.4	0.69	0.48	22.1	86.33	24.78	107.7			
02/06/72	124.92	12.46	173.01	112.46	113.01	111.19	1.82	7534.7	43.1	559.7	1.20	55.8	192.0	1.9	0.62	0.43	19.9	86.22	24.97	107.2			
02/13/72	124.92	12.72	176.64	114.82	113.08	111.23	1.85	7557.3	22.5	560.6	0.78	36.4	124.8	1.2	0.67	0.46	21.6	86.66	24.57	106.3			
02/20/72	124.92	12.72	176.64	114.82	113.17	111.30	1.87	7590.0	41.7	562.1	1.35	63.1	216.0	2.2	0.66	0.66	31.6	86.61	24.69	106.8			
02/27/72	124.94	12.72	176.64	114.82	113.19	111.26	1.93	7573.8	-25.1	561.2	0.06	2.8	9.6	0.1	1.03	0.75	35.2	86.76	24.50	107.6			
03/05/72	125.03	12.99	180.35	117.23	113.33	111.36	1.95	7640.2	66.4	563.7	2.07	66.8	331.2	3.3	1.30	0.95	44.4	86.82	24.56	106.6			
03/12/72	125.00	14.26	198.00	126.70	113.31	111.33	1.96	7615.7	-24.6	562.6	0.00	0.0	0.0	0.0	1.34	0.98	45.9	86.71	24.62	107.3			
03/19/72	124.82	13.82	191.94	124.76	113.30	111.29	2.01	7593.5	-22.2	561.9	0.16	7.5	25.6	0.3	1.36	1.01	47.2	86.72	24.57	107.4			
03/26/72	124.77	11.47	159.22	103.49	113.20	111.17	2.03	7523.6	-89.9	559.3	0.01	0.5	1.6	0.0	1.70	1.43	66.9	86.78	24.39	107.1			
04/02/72	125.00	10.89	151.17	98.26	113.61	111.52	2.09	7723.2	196.6	566.8	5.27	245.6	843.2	8.4	1.20	1.01	47.0	87.01	24.51	105.8			
04/09/72	125.00	13.82	191.94	124.76	113.61	111.47	2.14	7980.7	-32.5	565.6	0.05	2.4	8.0	0.1	1.31	1.10	52.0	86.88	24.59	107.7			
04/16/72	124.93	13.82	191.94	124.76	113.66	111.37	2.29	7836.4	-54.3	563.5	0.00												

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3783966 C2 = 91939.34 C3 = -742.7 C4 = 2				Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -66513.29 C3 = 563.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft				Brooklyn Leakage ac-feet		
07/02/72	125.44	23.07	320.30	208.19	115.59	112.36	3.23	8207.0	32.8	584.4	0.28	13.8	44.8	0.4	1.75	1.59	77.4	87.74	24.62	112.0	87.74	24.62	112.0		
07/09/72	125.38	21.72	301.53	195.99	115.70	112.42	3.28	8236.8	29.8	585.4	0.72	35.1	115.2	1.2	2.05	1.87	90.8	87.80	24.62	111.6	87.80	24.62	111.6		
07/16/72	125.24	20.44	283.75	184.44	115.75	112.43	3.32	8248.9	10.1	585.8	0.21	10.2	33.6	0.3	1.65	1.50	73.3	87.76	24.67	111.7	87.76	24.67	111.7		
07/23/72	125.20	17.71	245.94	159.86	115.99	112.42	3.17	8236.2	-8.7	585.5	0.28	13.7	44.8	0.4	1.59	1.45	70.6	87.78	24.66	112.0	87.78	24.66	112.0		
07/30/72	125.06	17.00	236.03	153.42	115.73	112.51	3.22	8291.1	52.9	587.4	1.83	86.3	292.8	2.9	1.82	1.66	80.8	87.47	25.04	111.9	87.47	25.04	111.9		
08/06/72	125.00	14.71	204.25	132.76	115.53	112.57	2.96	8326.3	35.2	588.6	1.78	87.1	284.8	2.8	1.85	1.50	73.5	87.28	25.29	114.0	87.28	25.29	114.0		
08/13/72	125.04	13.82	191.84	124.76	115.50	112.50	3.00	8284.6	-41.7	587.1	0.12	5.9	19.2	0.2	1.28	1.16	57.1	87.06	25.44	115.4	87.06	25.44	115.4		
08/20/72	125.10	14.41	200.06	130.04	115.59	112.41	3.18	8231.2	-53.4	585.2	0.15	7.3	24.0	0.2	1.69	1.54	75.2	87.18	25.25	115.8	87.18	25.25	115.8		
08/27/72	125.74	15.33	212.69	138.38	116.43	113.21	3.22	8709.6	478.4	602.1	10.02	488.7	1603.2	16.0	1.21	1.03	50.2	88.01	25.20	114.5	88.01	25.20	114.5		
09/03/72	125.60	29.24	406.03	263.92	116.56	113.44	3.12	8847.1	137.5	606.9	1.05	52.7	168.0	1.7	1.48	1.26	63.1	88.24	25.20	117.6	88.24	25.20	117.6		
09/10/72	125.69	25.49	353.88	230.02	116.44	113.54	2.90	8908.5	61.4	606.0	0.16	8.1	25.6	0.3	1.36	1.18	58.5	88.20	25.34	118.8	88.20	25.34	118.8		
09/17/72	125.64	27.85	386.69	251.35	116.34	113.65	2.69	8974.4	65.9	611.2	0.02	1.0	3.2	0.0	1.55	1.32	66.9	88.26	25.39	119.6	88.26	25.39	119.6		
09/24/72	125.36	26.52	368.16	239.30	116.20	113.76	2.44	9042.3	67.9	613.6	0.17	8.7	27.2	0.3	1.55	1.18	60.0	88.14	25.62	120.3	88.14	25.62	120.3		
10/01/72	125.06	20.03	278.04	180.73	116.05	113.84	2.21	9089.2	46.9	615.2	0.78	36.9	121.6	1.2	1.34	1.02	52.1	88.26	25.56	121.9	88.26	25.56	121.9		
10/08/72	124.86	14.71	204.25	132.76	115.78	113.80	1.98	9067.8	-21.4	614.4	0.32	16.4	51.2	0.5	1.26	0.98	49.1	88.15	25.65	122.0	88.15	25.65	122.0		
10/15/72	124.80	11.95	165.97	107.88	115.96	113.71	1.95	9012.5	-55.4	612.5	0.04	2.0	6.4	0.1	1.11	0.84	43.2	87.85	25.86	122.2	87.85	25.86	122.2		
10/22/72	124.88	11.23	155.95	101.37	115.49	113.61	1.88	8948.7	-63.7	610.4	0.00	0.0	0.0	0.0	1.09	0.83	42.3	87.71	25.90	122.8	87.71	25.90	122.8		
10/29/72	124.74	12.20	169.46	110.15	115.40	113.58	1.82	8932.2	-16.5	609.8	0.63	32.0	100.8	1.0	1.03	0.73	37.2	87.51	26.07	122.5	87.51	26.07	122.5		
11/05/72	124.82	10.55	146.53	95.25	115.36	113.49	1.87	8879.1	-53.2	608.0	0.16	8.1	25.6	0.3	0.93	0.66	33.6	87.64	25.85	123.2	87.64	25.85	123.2		
11/12/72	124.92	11.47	159.22	103.49	115.42	113.61	1.81	8950.7	71.8	610.4	2.21	112.0	353.8	3.5	0.71	0.50	25.5	87.72	25.99	121.8	87.72	25.99	121.8		
11/19/72	124.92	12.72	178.84	114.82	115.43	113.69	1.74	9000.7	50.0	612.1	1.63	82.9	260.8	2.8	0.77	0.55	27.8	87.70	25.99	122.5	87.70	25.99	122.5		
11/26/72	125.02	12.72	178.84	114.82	115.53	113.81	1.72	9074.6	73.9	614.7	2.05	104.6	328.0	3.3	0.90	0.50	25.4	87.86	25.95	123.3	87.86	25.95	123.3		
12/03/72	125.10	14.11	195.96	127.37	115.53	113.91	1.62	9132.7	58.1	616.6	1.36	66.7	217.6	2.2	0.41	0.34	17.4	87.71	26.20	123.7	87.71	26.20	123.7		
12/10/72	125.10	15.33	212.69	138.38	115.56	113.90	1.66	9127.8	-5.0	616.5	0.02	1.0	3.2	0.0	0.45	0.37	19.2	87.64	26.28	125.2	87.64	26.28	125.2		
12/17/72	125.08	15.33	212.69	138.38	115.60	113.94	1.66	9155.0	27.3	617.4	1.02	52.4	163.2	1.6	0.93	0.77	39.7	87.74	26.20	125.5	87.74	26.20	125.5		
12/24/72	125.10	14.71	204.25	132.76	115.63	114.16	1.67	9292.4	137.4	622.0	2.78	143.0	444.8	4.4	0.44	0.34	17.4	87.78	26.38	125.4	87.78	26.38	125.4		
12/31/72	125.10	15.33	212.69	138.38	115.72	114.16	1.58	9298.8	-2.6	621.9	0.19	9.8	30.4	0.3	0.80	0.46	23.9	87.84	26.32	127.2	87.84	26.32	127.2		
01/07/73	125.08	15.33	212.69	138.38	115.80	114.15	1.65	9294.9	-4.9	621.8	0.12	6.2	19.2	0.2	0.57	0.44	22.7	87.81	26.34	127.0	87.81	26.34	127.0		
01/14/73	125.06	15.02	206.53	135.54	115.89	114.25	1.64	9343.9	59.0	623.8	1.22	63.2	195.2	2.0	0.37	0.28	14.8	87.81	26.44	127.0	87.81	26.44	127.0		
01/21/73	125.12	15.02	206.53	135.54	115.73	114.21	1.52	9321.6	-22.3	623.0	0.00	0.0	0.0	0.0	0.75	0.58	30.0	87.84	26.37	127.8	87.84	26.37	127.8		
01/28/73	125.16	15.65	217.34	141.27	115.83	114.44	1.39	9462.4	140.8	627.7	2.82	146.4	451.2	4.5	0.67	0.46	24.0	87.86	26.56	127.4	87.86	26.56	127.4		
02/04/73	125.22	16.31	228.50	147.23	115.85	114.56	1.29	9536.3	78.9	630.3	1.59	83.2	254.4	2.5	0.74	0.51	26.7	88.05	26.51	129.3	88.05	26.51	129.3		
02/11/73	125.18	17.35	240.94	156.61	115.90	114.70	1.20	9629.3	89.9	633.3	1.63	85.6	260.8	2.6	0.70	0.48	25.4	88.44	26.28	129.5	88.44	26.28	129.5		
02/18/73	125.18	16.65	231.22	150.29	115.86	114.77	1.09	9672.6	43.3	634.7	1.06	55.9	166.6	1.7	0.96	0.68	35.7	88.31	26.46	128.9	88.31	26.46	128.9		
02/25/73	125.18	16.65	231.22	150.29	115.74	114.75	0.99	9680.3	-12.2	634.3	0.03	1.8	4.8	0.0	0.88	0.64	34.0	88.18	26.57	130.2	88.18	26.57	130.2		
03/04/73	125.06	16.65	231.22	150.29	115.70	114.72	0.98	9638.6	-21.7	633.6	0.02	1.1	3.2	0.0	1.10	0.80	42.4	88.06	26.66	130.6	88.06	26.66	130.6		
03/11/73	125.10	14.71	204.25	132.76	115.84	114.84	1.00	9719.1	80.5	636.2	2.06	110.3	334.4	3.3	0.91	0.66	35.1	88.20	26.64	130.9	88.20	26.64	130.9		
03/18/73	125.04	15.33	212.69	138.38	115.85	114.77	1.08	9671.9	-47.2	634.7	0.12	6.4	19.2	0.2	1.57	1.15	60.8	88.26	26.51	131.4	88.26	26.51	131.4		
03/25/73	125.16	14.41	200.06	130.04	115.81	114.87	0.94	9736.5	66.7	636.9	2.36	125.9	380.8	3.8	1.41	1.18	62.6	88.41	26.46	130.4	88.41	26.46	130.4		
04/01/73	125.34	16.31	228.50	147.23	116.17	115.07	1.10	9865.0	128.5	641.0	2.85	151.3	456.0	4.6	1.03	0.67	45.9	88.67	26.20	130.7	88.67	26.20	130.7		
04/08/73	125.54	19.62	272.44	177.09	116.38	115.38	1.00	10062.5	197.8	647.4	3.97	212.1	635.2	6.4	1.51	1.27	67.8	88.99	26.39	130.2	88.99	26.39	130.2		
04/15/73	125.41	24.01	333.36	216.70	116.28	115.38	0.90	10064.9	2.9	647.5	0.00	0.0	0.0	0.0	1.58	1.33	71.6	88.98	26.42	132.4	88.98	26.42	132.4		
04/22/73	125.27	21.07	292.52	190.14	116.13	115.33	0.80	10094.8	-30.1	646.5	0.00	0.0	0.0	0.0	1.74	1.43	77.0	89.02	26.31	132.8	89.02	26.31	132.8		
04/29/73	125.10	18.27	253.83	164.86	116.00	115.30	0.70	10011.2	-23.8	645.8	0.47	25.3	75.2	0.8	1.71	1.40	75.5	88.96	26.34	131.9	88.96	26.34	131.9		
05/06/73	125.00	15.33	212.69	138.38	115.85	115.18	0.67	9937.6	-73.8	643.4	0.00	0.0	0.0	0.0	1.71	1.40	75.5	88.93	26.25	131.9	88.93	26.25	131.9		
05/13/73	125.00	13.82	191.84	124.76	115.73	115.14	0.59	9906.5	-29.0	642.4	1.29	69.2	206.4	2.1	2.14	1.75	94.1	88.94	26.20	130.9	88.94	26.20	130.9		
05/20/73	125.00	13.82	191.84	124.76	115.63	115.01	0.62	9827.7	-80.8	639.8	0.00	0.0	0.0	0.0	1.71	1.40	75.1	88.56	26.45	130.5	88.56	26.45	130.5		
05/27/73	124.89	13.82	191.84	124.76	115.85	114.99	0.86	9614.6	-13.1	639.4	1.62	86.4	259.2	2.6	2.11	1.79	9								

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3783966 C2 = 91839.34 C3 = -742.7 C4 = 2							Hmin = 115.2 C1 = 2711766.8 C2 = -66513.29 C3 = 563.7937 C4 = -1.6903							Drainage area = 1920 Runoff Coeff = 0.01				Leakance = 1.107E-03 1/day			
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet		
	Magnolia Elevation ft	Magnolia Discharge cfs																			Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet
10/07/73	125.25	20.86	289.57	188.22	116.08	115.80	0.26	6.27	87.1	10339.1	-81.6	656.3	0.22	12.1	35.2	0.4	1.45	1.10	80.5	86.61	26.19	134.6
10/14/73	125.08	17.90	248.46	161.51	115.90	115.66	0.24	4.65	64.5	10246.3	-92.8	653.4	0.00	0.0	0.0	0.0	1.36	1.03	56.5	86.45	26.21	133.3
10/21/73	124.90	15.02	208.53	135.54	115.74	115.56	0.18	3.04	42.2	10179.2	-67.1	651.2	0.26	14.2	41.6	0.4	1.02	0.78	42.2	86.50	26.06	132.6
10/28/73	124.80	12.46	173.01	112.46	115.56	115.43	0.13	2.06	28.6	10095.1	-84.1	648.5	0.03	1.6	4.8	0.0	0.99	0.70	38.1	86.40	26.03	131.5
11/04/73	124.75	11.23	155.95	101.37	115.43	115.36	0.07	1.08	14.7	10052.4	-42.7	647.1	0.66	35.7	105.6	1.1	0.92	0.65	35.3	86.22	26.14	130.8
11/11/73	124.70	10.66	146.06	96.24	115.33	115.23	0.10	0.65	9.1	9999.3	-83.1	644.4	0.02	1.1	3.2	0.0	1.05	0.75	40.2	86.08	26.17	131.1
11/18/73	124.62	10.12	140.58	91.38	115.22	115.11	0.11	0.09	1.3	9991.3	-78.0	641.9	0.00	0.0	0.0	0.0	0.98	0.70	37.4	86.71	26.40	130.8
11/25/73	124.62	9.32	129.39	84.10	115.11	114.98	0.13			9805.4	-85.9	639.1	0.00	0.0	0.0	0.0	0.00	0.87	36.6	86.36	26.60	131.4
12/02/73	124.56	9.32	129.39	84.10	115.00	114.85	0.15			9725.8	-79.6	636.5	0.16	8.5	25.6	0.3	0.92	0.76	40.7	86.05	26.60	131.6
12/09/73	124.68	8.76	121.59	79.03	115.03	114.86	0.17			9733.8	8.0	636.7	1.66	88.0	205.6	2.7	0.67	0.56	29.5	87.98	26.68	132.2
12/16/73	124.68	9.92	137.69	89.50	115.06	114.91	0.15			9760.0	26.2	637.6	1.85	98.2	296.0	3.0	0.72	0.60	31.7	87.96	26.95	132.7
12/23/73	124.64	9.92	137.69	89.50	115.16	114.86	0.30			9732.7	-27.3	636.7	0.74	39.3	118.4	1.2	0.59	0.45	24.1	87.91	26.95	133.2
12/30/73	124.90	11.71	162.56	105.66	115.25	114.86	0.39			9732.2	-0.5	636.7	0.88	46.7	140.8	1.4	0.52	0.40	21.2	88.01	26.85	133.0
01/06/74	124.86	12.46	173.01	112.46	115.27	114.79	0.48			9699.0	-43.2	635.2	0.01	0.5	1.6	0.0	0.59	0.45	23.7	88.00	26.79	132.5
01/13/74	124.83	11.95	165.97	107.88	115.25	114.71	0.54			9632.7	-56.3	633.4	0.00	0.0	0.0	0.0	0.79	0.61	32.2	87.86	26.85	132.0
01/20/74	124.74	11.59	160.88	104.57	115.22	114.62	0.60			9579.8	-52.8	631.6	0.00	0.0	0.0	0.0	0.63	0.49	25.6	87.87	26.75	131.8
01/27/74	124.69	10.55	146.53	95.25	115.16	114.52	0.64			9513.2	-66.6	629.4	0.00	0.0	0.0	0.0	0.85	0.59	30.9	87.70	26.82	131.0
02/03/74	124.68	10.02	139.13	90.43	115.13	114.43	0.70			9461.3	-51.9	627.7	0.29	15.2	46.4	0.5	0.75	0.52	27.1	87.51	26.92	130.9
02/10/74	124.58	9.92	137.69	89.50	114.98	114.36	0.60			9429.5	-31.6	626.6	0.97	50.7	155.2	1.6	1.18	0.81	42.6	87.46	26.92	131.0
02/17/74	124.50	8.94	124.14	80.89	114.85	114.25	0.60			9344.5	-85.1	623.8	0.00	0.0	0.0	0.0	0.97	0.67	35.0	87.44	26.81	130.6
02/24/74	124.52	8.23	114.25	74.27	114.90	114.23	0.67			9335.5	-9.0	623.5	1.56	61.1	249.6	2.5	0.96	0.72	37.2	87.31	26.92	129.6
03/03/74	124.40	8.40	116.85	75.82	114.86	114.08	0.67			9240.6	-94.9	620.3	0.00	0.0	0.0	0.0	1.07	0.78	40.6	87.21	26.87	130.1
03/10/74	124.36	7.42	102.97	66.93	114.57	113.90	0.67			9126.1	-112.5	616.5	0.00	0.0	0.0	0.0	1.33	0.97	50.2	87.02	26.88	129.2
03/17/74	124.28	7.11	98.75	64.19	114.41	113.71	0.70			9006.6	-118.5	612.4	0.01	0.5	1.6	0.0	1.46	1.07	54.8	86.96	26.75	128.5
03/24/74	124.40	6.54	90.76	59.00	114.46	113.72	0.74			9017.1	7.5	612.7	2.37	121.0	379.2	3.8	1.15	0.97	49.3	86.90	26.82	127.0
03/31/74	124.38	7.42	102.97	66.93	114.33	113.53	0.80			8900.1	-117.0	608.7	0.01	0.5	1.6	0.0	1.33	1.12	57.0	86.86	26.67	127.4
04/07/74	124.34	7.26	100.84	65.54	114.21	113.33	0.86			8790.3	-119.9	604.5	0.27	13.7	43.2	0.4	1.73	1.45	73.7	86.78	26.57	125.8
04/14/74	124.24	6.96	96.70	62.85	114.06	113.14	0.82			8684.6	-115.5	600.5	0.34	17.1	54.4	0.5	1.69	1.42	71.5	86.61	26.53	124.5
04/21/74	124.16	6.26	86.97	56.53	113.76	112.92	0.84			8532.6	-132.2	595.9	0.12	6.0	19.2	0.2	1.74	1.43	71.4	86.43	26.49	123.5
04/28/74	124.10	5.74	79.75	51.84	113.58	112.71	0.87			8408.5	-124.1	591.5	0.44	21.8	70.4	0.7	1.87	1.53	76.1	86.18	26.55	122.4
05/05/74	124.04	5.37	74.60	46.49	113.38	112.45	0.93			8259.8	-148.6	586.2	0.02	1.0	3.2	0.0	1.89	1.55	78.4	86.16	26.29	121.7
05/12/74	124.06	5.02	69.64	45.27	113.24	112.45	0.79			8255.1	-4.7	586.1	2.87	140.2	459.2	4.6	1.88	1.54	75.3	86.06	26.37	119.5
05/19/74	124.22	5.25	72.93	47.40	113.22	112.39	0.83			8221.7	-33.4	584.9	2.17	108.0	347.2	3.5	1.76	1.44	70.5	86.03	26.36	119.8
05/26/74	124.16	6.13	85.12	55.33	112.94	112.19	0.75			8103.2	-118.5	580.6	0.46	22.4	73.6	0.7	1.87	1.59	77.5	85.92	26.27	119.5
06/02/74	124.06	5.74	79.75	51.84	112.72	111.97	0.75			7980.6	-122.6	576.2	0.16	7.7	25.6	0.3	1.56	1.33	64.2	85.71	26.26	118.2
06/09/74	124.12	5.25	72.93	47.40	112.56	111.92	0.64			7951.7	-29.0	575.1	2.38	114.3	380.8	3.8	1.89	1.61	77.1	85.69	26.23	117.3
06/16/74	124.20	5.49	76.29	49.59	112.46	111.97	0.49			7979.3	27.7	576.1	3.26	156.2	521.6	5.2	1.63	1.39	66.4	85.72	26.25	117.0
06/23/74	124.14	6.00	83.31	54.15	112.36	111.73	0.63			7943.3	-136.1	571.2	0.00	0.0	0.0	0.0	1.67	1.52	73.0	85.78	25.97	117.3
06/30/74	124.35	5.62	78.01	50.71	112.38	111.90	0.48			7938.6	95.5	574.7	4.41	209.9	705.6	7.1	1.32	1.20	57.2	85.71	26.19	115.0
07/07/74	124.54	7.04	97.72	63.52	112.47	111.78	0.71			7855.9	-82.9	571.8	0.50	23.9	80.0	0.8	1.25	1.14	54.5	85.69	25.87	116.7
07/14/74	124.66	8.58	119.09	77.41	112.40	111.72	0.58			7894.2	38.4	573.0	3.12	148.6	499.2	5.0	1.80	1.64	78.0	86.01	25.81	114.6
07/21/74	124.66	9.92	137.69	89.50	112.46	111.77	0.69			7863.4	-30.8	571.9	1.33	63.5	212.8	2.1	1.64	1.49	71.3	85.91	25.86	114.7
07/28/74	124.84	9.71	134.87	87.66	112.61	111.85	0.76			7907.6	44.1	573.5	2.43	115.8	398.8	3.9	1.12	1.02	46.6	86.09	25.76	114.7
08/04/74	124.86	11.71	162.56	105.66	112.63	111.82	0.81			7892.9	-14.7	573.0	1.00	47.8	180.0	1.6	1.27	1.16	55.2	86.04	25.78	114.5
08/11/74	124.90	11.95	165.97	107.66	112.74	111.89	0.85			7832.3	39.4	574.4	1.82	91.7	307.2	3.1	1.12	1.02	48.7	86.08	25.83	114.5
08/18/74	124.96	12.46	173.01	112.46	112.88	111.97	0.91			7979.2	46.9	576.1	2.10	100.5	336.0	3.4	1.25	1.14	54.5	86.18	25.79	115.0
08/25/74	124.92	11.95	165.97	107.66	112.90	112.06	0.93			8032.1	52.9	578.1	2.48	119.1	398.8	4.0	1.54	1.31	62.8	86.26	25.80	115.2
09/01/74	124.86	12.72	176.64	114.82	112.94	111.98	0.96			7984.5	-47.6	576.3	0.27	13.0	43.2	0.4	1.47	1.25	60.2	86.23	25.75	115.6
09/08/74	125.26	13.26	184.13	119.69	113.50	112.13	1.37			8070.7	86.2	579.4	2.63	126.3	420.8	4.2	1.20	1.02	49.0	86.35	25.76	115.1
09/15/74	125.46	18.46	256.24	166.56	113.73	112.30	1.43			8172.0	101.4	583.1	2.15	103.8	344.0	3.4	1.36	1.17	56.6	86.56	25.74	115.8
09/22/74	125.44	22.61	313.93	204.05	113.69	112.54	1.35			8312.1	140.1	588.1	2.14	104.0	342.4	3.4	1.49	1.13	55.0	86.65	25.89	116.4
09/29/74	125.26	21.72	301.53	195.89	113.97	112.64	1.33			8369.0	56.9	590.1	0.35	17.2	56.0	0.6	1.04	0.79	38.7	86.79	25.85	118.1
10/06/74	125.06	18.46	256.24	166.56	113.91	112.63	1.28			8361.6	-7.4	589.9	0.00	0.0								

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2						Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903						Drainage area = 1920 Runoff Coeff. = 0.01				Lakeshore = 1.107E-03 1/day							
	Magnolia Elevation ft		Magnolia Discharge cfs		Effective Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Lakeshore ac-feet
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Lakeshore ac-feet		
01/05/75	124.58	9.51	132.10	85.67	112.98	111.82	0.88	7891.4	-46.8	7908.0	16.8	572.9	0.26	12.5	41.6	0.4	0.74	0.57	27.3	85.36	26.45	116.1		
01/12/75	124.82	8.94	124.14	80.69	112.79	111.85	0.94	7854.5	-53.5	7852.8	-1.7	571.5	0.19	9.1	30.4	0.3	0.79	0.61	29.1	85.33	26.52	117.5		
01/19/75	124.66	9.32	129.39	84.10	112.76	111.75	1.01	7801.9	-50.9	7806.2	4.3	569.8	1.16	55.1	1.8	0.0	0.83	0.57	27.3	85.26	26.50	117.3		
01/26/75	124.72	9.71	134.87	87.66	112.71	111.66	1.05	7817.8	-0.1	7817.8	11.6	570.2	1.45	68.9	232.0	2.3	0.95	0.66	31.1	85.15	26.54	117.4		
02/02/75	124.70	10.34	143.52	93.29	112.67	111.67	0.99	7817.8	-0.1	7817.8	11.6	570.2	1.45	68.9	232.0	2.3	0.95	0.66	31.1	85.11	26.58	117.0		
02/09/75	124.67	10.12	140.56	91.38	112.66	111.69	1.07	7800.2	-17.6	7756.1	-44.0	568.0	0.38	18.0	60.8	0.6	1.17	0.85	40.5	85.08	26.56	117.5		
02/16/75	124.74	9.61	136.27	88.58	112.66	111.58	1.07	7680.9	-75.2	7681.8	-0.1	562.7	0.34	16.0	54.4	0.5	1.25	1.05	49.5	85.04	26.54	117.4		
02/23/75	124.80	10.55	146.53	95.25	112.62	111.69	1.13	7680.9	-75.2	7525.4	-68.1	562.7	0.34	16.0	54.4	0.5	1.25	1.05	49.5	85.00	26.45	116.9		
03/02/75	124.74	11.23	155.95	101.37	112.76	111.66	1.10	7525.4	-67.4	7420.5	-104.9	558.5	0.00	0.0	0.0	0.0	1.71	1.44	67.0	84.93	26.24	115.0		
03/09/75	124.64	10.55	146.53	95.25	112.65	111.58	1.07	7402.1	-18.3	7320.4	-81.7	554.8	1.72	79.6	275.2	2.8	1.25	1.05	48.6	84.89	26.09	113.8		
03/16/75	124.58	9.51	132.10	85.67	112.56	111.45	1.11	7216.8	-103.7	7216.8	-103.7	547.7	0.00	0.0	0.0	0.0	1.58	1.30	59.6	84.86	26.09	112.3		
03/23/75	124.62	8.94	124.14	80.69	112.48	111.33	1.15	7168.0	-48.7	7067.8	-100.1	545.9	1.46	66.6	233.6	2.3	1.74	1.43	65.1	84.79	25.83	111.1		
03/30/75	124.52	9.32	129.39	84.10	112.37	111.17	1.20	7067.8	-48.7	7050.0	-17.9	541.3	2.33	105.2	372.6	3.7	1.76	1.44	65.2	84.75	25.78	109.7		
04/06/75	124.30	8.40	116.65	75.82	112.14	110.98	1.16	6919.0	-131.0	6836.3	-82.7	533.0	1.04	46.5	166.4	1.7	1.85	1.57	70.3	84.77	25.57	109.1		
04/13/75	124.35	6.69	92.71	60.28	112.19	110.85	1.24	6836.3	-82.7	6767.7	-68.6	530.3	1.22	54.2	195.2	2.0	1.52	1.29	57.4	84.70	25.61	107.4		
04/20/75	124.40	7.04	97.72	63.52	112.01	110.80	1.21	6691.9	-75.8	6585.2	-106.7	527.3	1.41	62.3	225.6	2.3	1.77	1.50	66.5	84.49	25.56	107.5		
04/27/75	124.25	7.42	102.97	66.93	111.80	110.61	1.19	6585.2	-106.7	6543.2	-42.0	521.3	1.77	77.1	263.2	2.8	1.40	1.27	55.5	84.29	25.52	106.3		
05/04/75	124.15	6.33	87.91	57.14	111.59	110.53	1.06	6450.6	-92.6	6450.6	-92.6	517.6	0.78	33.9	124.8	1.2	1.76	1.60	69.6	84.27	25.47	103.3		
05/11/75	124.05	5.68	78.66	51.27	111.40	110.34	1.06	6264.4	-75.8	6264.4	-75.8	520.7	3.71	180.0	563.6	5.9	1.32	1.20	51.8	84.27	24.91	101.3		
05/18/75	124.15	5.07	70.46	45.80	111.31	110.31	1.00	6494.2	-32.2	6494.2	-32.2	519.4	0.52	22.6	83.2	0.8	1.12	1.02	44.2	84.31	24.96	99.9		
05/25/75	124.05	5.68	78.66	51.27	111.02	110.07	0.95	6508.0	-13.7	6508.0	-13.7	519.9	1.44	62.3	230.4	2.3	1.11	1.01	43.7	84.31	24.96	100.8		
06/01/75	123.90	5.07	70.46	45.80	110.99	109.91	1.08	6508.0	-13.7	6508.0	-13.7	519.9	1.44	62.3	230.4	2.3	1.11	1.01	43.7	84.41	24.86	100.5		
06/08/75	123.75	4.22	58.61	38.09	110.86	109.78	1.08	6553.1	45.1	6553.1	45.1	521.7	1.69	73.2	270.4	2.7	1.09	0.99	43.0	84.41	24.86	100.5		
06/15/75	123.90	3.40	47.19	30.68	110.78	109.84	1.12	6508.0	-46.3	6478.7	-28.1	518.7	0.85	36.8	136.0	1.4	1.41	1.28	55.6	84.50	24.87	100.3		
06/22/75	123.85	4.22	58.61	38.09	110.74	109.44	1.30	6478.7	-28.1	6427.9	-50.8	518.7	0.59	25.5	94.4	0.9	1.59	1.35	54.4	84.42	24.86	100.6		
06/29/75	124.00	3.95	54.78	35.61	110.80	109.35	1.25	6427.9	-50.8	6412.3	-15.6	516.1	1.08	45.6	169.8	1.7	1.33	1.13	48.7	84.57	24.56	99.5		
07/06/75	124.32	4.78	66.42	43.17	110.41	109.18	1.23	6412.3	-15.6	6375.5	-36.8	522.6	5.27	226.6	843.2	8.4	1.50	1.28	54.8	84.69	24.41	98.4		
07/13/75	124.68	6.82	94.66	61.54	110.61	109.32	1.29	6375.5	-36.8	6313.5	-62.0	524.2	1.94	84.5	310.4	3.1	1.32	1.12	48.9	84.72	24.70	97.7		
07/20/75	124.72	9.92	137.69	89.50	110.59	109.26	1.33	6313.5	-62.0	6313.5	-62.0	524.2	1.94	84.5	310.4	3.1	1.32	1.12	48.9	84.72	24.70	97.7		
07/27/75	124.90	10.34	143.52	93.29	110.74	109.29	1.45	6163.5	-36.0	6163.5	-36.0	524.2	1.94	84.5	310.4	3.1	1.32	1.12	48.9	84.72	24.70	97.7		
08/03/75	124.84	12.46	173.01	112.46	110.83	109.37	1.46	6068.3	-54.8	6068.3	-54.8	528.3	1.82	79.5	291.2	2.9	1.12	0.95	37.2	84.69	24.41	96.4		
08/10/75	124.68	11.71	162.56	105.66	110.73	109.28	1.45	6068.3	-54.8	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
08/17/75	124.58	9.92	137.69	89.50	110.59	109.23	1.36	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
08/24/75	124.62	8.94	124.14	80.69	110.44	109.13	1.31	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
08/31/75	124.58	9.32	129.39	84.10	110.42	109.10	1.32	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
09/07/75	124.78	8.94	124.14	80.69	110.48	109.42	1.06	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
09/14/75	124.68	11.00	152.74	99.28	110.72	109.49	1.23	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
09/21/75	124.98	12.20	168.46	110.15	111.00	109.59	1.41	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
09/28/75	125.02	13.54	187.99	122.20	110.88	109.85	1.03	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
10/05/75	125.08	14.11	195.96	127.37	110.86	109.90	0.96	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
10/12/75	125.22	14.71	204.25	132.76	111.10	109.94	1.16	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
10/19/75	125.30	17.35	240.94	156.61	111.10	110.06	1.04	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
10/26/75	125.28	18.84	261.54	170.00	111.07	110.12	0.95	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
11/02/75	124.88	18.46	256.24	168.56	110.86	110.25	0.71	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
11/09/75	124.82	12.20	168.46	110.15	110.91	110.27	0.64	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
11/16/75	124.82	11.47	159.22	103.49	110.81	110.25	0.56	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
11/23/75	124.74	11.47	159.22	103.49	110.69	110.19	0.50	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
11/30/75	124.68	10.55	146.53	95.25	110.59	110.13	0.46	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
12/07/75	124.66	9.92	137.69	89.50	110.48	110.05	0.43	6042.7	-25.9	6042.7	-25.9	532.4	0.36	16.0	57.8	0.6	0.78	0.55	24.9	84.69	24.41	96.4		
12/14/75	124.64	9.71	134.87	87.66	110.35																			

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Effective Discharge = 65%		Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft				Brooklyn Leakage ac-feet														
	Magnolia Elevation ft	Magnolia Discharge cfs							Magnolia Discharge ac-feet						Effective Magnolia Discharge ac-feet							
04/04/76	124.10	5.74	79.75	51.84	108.51	108.79	-0.28			6251.5	-49.2	509.5	1.39	59.2	222.4	2.2	1.67	1.40	59.8	82.67	25.92	102.7
04/11/76	124.04	5.37	74.80	48.49	108.36	108.76	-0.40			6238.6	-12.8	509.0	1.83	77.7	292.8	2.9	1.11	0.93	39.8	82.80	25.96	102.4
04/18/76	123.96	5.02	69.64	45.27	108.17	108.54	-0.37			6125.5	-113.2	504.3	0.00	0.0	0.0	0.0	1.61	1.32	56.0	82.90	25.94	102.4
04/25/76	123.88	4.67	64.84	42.14	107.98	108.31	-0.33			6010.5	-114.9	499.5	0.02	0.8	3.2	0.0	1.64	1.34	56.5	82.46	25.85	101.4
05/02/76	123.78	4.00	55.54	36.10	107.72	108.17	-0.45			5940.5	-70.0	496.5	1.10	45.8	176.0	1.8	1.57	1.29	53.6	82.37	25.80	100.1
05/09/76	123.68	3.56	49.47	32.15	107.52	107.92	-0.40			5816.7	-123.8	491.3	0.00	0.0	0.0	0.0	1.67	1.37	56.7	82.24	25.68	99.3
05/16/76	123.68	3.01	41.86	27.21	107.62	107.93	-0.31			5823.6	7.0	491.6	2.92	119.5	467.2	4.7	1.39	1.14	46.7	82.36	25.55	97.8
05/23/76	123.76	3.01	41.86	27.21	107.64	107.81	-0.17			5763.5	-60.1	489.0	1.46	80.6	236.8	2.4	1.52	1.29	52.9	82.63	25.18	97.4
05/30/76	123.90	3.45	47.95	31.17	107.50	107.77	-0.27			5741.9	-21.7	488.1	1.98	80.7	316.8	3.2	1.19	1.01	41.2	82.34	25.43	95.5
06/06/76	124.04	4.22	58.61	36.09	107.53	107.58	-0.05			5651.1	-90.7	484.2	0.39	15.9	62.4	0.6	1.42	1.21	49.1	82.39	25.19	96.2
06/13/76	124.18	5.02	69.64	45.27	107.36	107.37	-0.01			5547.8	-103.5	479.7	0.04	1.6	6.4	0.1	1.63	1.39	55.9	82.41	24.96	94.8
06/20/76	124.26	5.67	81.51	52.98	107.33	107.55	-0.22			5636.2	88.6	483.5	4.69	187.5	750.4	7.5	1.63	1.67	66.6	82.55	25.00	92.8
06/27/76	124.36	6.40	88.85	57.75	107.30	107.73	-0.43			5725.1	88.9	487.4	4.03	162.4	644.8	6.4	1.20	1.00	44.0	82.55	25.18	93.7
07/04/76	124.40	7.11	98.75	64.19	107.25	107.81	-0.56			5761.9	36.8	489.0	2.69	109.3	430.4	4.3	1.24	1.13	45.6	82.56	25.25	95.1
07/11/76	124.66	7.42	102.97	66.93	107.31	107.75	-0.44			5733.4	-28.4	487.7	1.40	57.0	224.0	2.2	1.59	1.45	50.0	82.59	25.16	95.7
07/18/76	124.68	9.71	134.67	87.66	107.31	107.61	-0.30			5664.7	-68.8	484.6	0.09	3.7	14.4	0.1	1.78	1.60	65.1	82.51	25.10	95.1
07/25/76	124.58	9.92	137.69	89.50	107.26	107.48	-0.22			5602.0	-62.7	482.1	0.04	1.6	6.4	0.1	1.62	1.47	59.6	82.53	24.95	94.3
08/01/76	124.54	8.94	124.14	80.69	107.09	107.58	-0.49			5648.7	46.7	484.1	2.88	115.7	460.8	4.6	1.67	1.52	61.0	82.50	25.08	93.2
08/08/76	124.36	8.58	119.09	77.41	106.94	107.50	-0.56			5610.7	-38.0	482.4	0.56	22.6	89.6	0.9	1.22	1.11	44.8	82.34	25.16	94.1
08/15/76	124.36	7.11	98.75	64.19	106.70	107.42	-0.72			5571.6	-39.1	480.7	1.11	44.6	177.6	1.8	1.52	1.36	55.6	82.18	25.24	94.1
08/22/76	124.30	7.11	98.75	64.19	106.59	107.32	-0.73			5523.7	-47.8	478.6	0.59	23.6	94.4	0.9	1.25	1.06	42.6	82.16	25.16	94.0
08/29/76	124.18	6.68	92.71	60.26	106.32	107.17	-0.85			5452.4	-71.3	475.5	0.28	11.2	44.8	0.4	1.47	1.25	48.8	81.84	25.33	93.3
09/05/76	124.22	5.67	81.51	52.98	106.24	107.13	-0.89			5433.9	-18.5	474.7	1.78	70.5	284.8	2.8	1.53	1.30	51.5	81.82	25.21	93.4
09/12/76	124.56	6.13	85.12	55.33	106.22	107.18	-0.96			5457.1	23.2	475.7	2.80	102.9	416.0	4.2	1.38	1.17	48.4	81.99	25.19	92.8
09/19/76	124.58	6.78	121.59	79.03	106.17	107.15	-0.98			5444.7	-12.4	475.2	0.70	27.8	112.0	1.1	0.91	0.69	27.4	82.17	24.99	92.9
09/26/76	124.56	8.94	124.14	80.69	106.05	107.09	-1.04			5414.0	-30.7	473.8	0.29	11.5	46.4	0.5	1.04	0.79	31.3	82.07	25.02	92.0
10/03/76	124.52	8.76	121.59	79.03	105.84	106.98	-1.14			5394.2	-49.8	471.6	0.00	0.0	0.0	0.0	1.23	0.93	36.9	82.00	24.98	91.9
10/10/76	124.48	8.40	116.65	75.82	105.70	106.96	-1.26			5352.5	-11.8	471.1	0.99	38.9	158.4	1.6	1.23	0.93	36.7	81.91	25.05	91.3
10/17/76	124.30	7.89	109.60	71.24	105.56	106.92	-1.36			5335.8	-16.6	470.4	0.92	36.1	147.2	1.5	1.14	0.87	34.0	81.88	24.94	91.5
10/24/76	124.22	6.68	92.71	60.26	105.36	106.79	-1.41			5273.9	-61.9	467.6	0.04	1.6	6.4	0.1	1.18	0.94	32.8	81.76	25.03	90.9
10/31/76	124.18	6.13	85.12	55.33	105.12	106.69	-1.57			5228.7	-47.3	465.5	0.26	10.1	41.6	0.4	0.81	0.58	22.4	81.73	24.96	90.7
11/07/76	124.00	5.67	81.51	52.98	104.94	106.55	-1.61			5165.0	-61.7	462.7	0.01	0.4	1.6	0.0	0.91	0.65	25.1	81.52	25.03	90.1
11/14/76	123.86	4.78	68.42	43.17	104.77	106.41	-1.64			5098.7	-66.2	459.7	0.03	1.2	4.8	0.0	0.78	0.54	20.8	81.67	24.74	89.8
11/21/76	123.90	4.00	55.54	36.10	104.80	106.49	-1.69			5137.6	38.9	461.4	2.59	99.2	414.4	4.1	0.39	0.32	12.4	81.62	24.67	89.2
11/28/76	123.96	4.22	58.61	36.09	104.59	106.34	-1.75			5068.6	-69.1	458.3	0.00	0.0	0.0	0.0	0.57	0.47	18.2	81.70	24.64	89.0
12/05/76	123.94	4.67	64.84	42.14	104.53	106.23	-1.70			5018.5	-52.1	455.9	0.31	11.8	49.6	0.5	0.60	0.50	19.0	81.53	24.70	87.6
12/12/76	124.00	4.44	61.70	40.10	104.69	106.13	-1.44			4972.5	-44.0	453.9	0.40	15.2	64.0	0.6	0.40	0.33	12.6	81.55	24.58	87.3
12/19/76	124.40	4.78	66.42	43.17	104.69	106.14	-1.45			4973.4	0.9	453.9	1.38	52.2	220.8	2.2	0.35	0.27	10.2	81.89	24.25	86.5
12/26/76	124.38	7.42	102.97	66.93	104.72	106.29	-1.57			5044.6	71.4	457.2	2.67	101.0	427.2	4.3	0.53	0.41	15.4	82.32	23.97	85.3
01/02/77	124.80	7.26	100.84	65.54	104.65	106.24	-1.59			5021.7	-23.1	456.2	0.41	15.6	65.6	0.7	0.68	0.52	19.9	82.23	24.01	85.0
01/09/77	124.66	9.13	126.74	82.38	106.01	106.37	-1.36			5079.3	57.6	458.8	1.85	70.3	298.0	3.0	0.45	0.35	13.2	82.80	23.77	84.9
01/16/77	124.66	9.92	137.69	89.50	105.00	106.43	-1.43			5108.9	27.6	460.0	1.19	45.5	190.4	1.9	0.84	0.65	24.7	82.64	23.79	84.5
01/23/77	124.58	9.71	134.67	87.66	104.93	106.40	-1.47			5092.3	-14.6	459.4	0.00	0.0	0.0	0.0	0.68	0.46	17.5	82.55	23.85	84.8
01/30/77	124.50	8.94	124.14	80.69	104.91	106.35	-1.44			5072.2	-20.1	458.5	0.04	1.5	6.4	0.1	0.68	0.46	17.4	82.58	23.77	84.9
02/06/77	124.62	8.23	114.25	74.27	105.05	106.51	-1.46			5142.8	70.6	461.7	2.44	93.2	380.4	3.9	0.62	0.43	18.3	82.67	23.84	84.5
02/13/77	124.58	9.32	129.39	84.10	105.03	106.45	-1.42			5116.9	-25.9	460.5	0.00	0.0	0.0	0.0	0.93	0.64	24.7	82.69	23.56	85.3
02/20/77	124.52	8.94	124.14	80.69	104.67	106.39	-1.42			5090.4	-26.5	459.3	0.13	5.0	20.8	0.2	1.01	0.74	26.3	82.79	23.60	84.1
02/27/77	124.56	8.40	116.65	75.82	105.07	106.43	-1.36			5106.9	16.5	460.0	1.70	65.1	272.0	2.7	1.54	1.12	43.0	82.68	23.55	84.0
03/06/77	124.54	8.78	121.59	79.03	104.98	106.37	-1.39			5091.8	-25.1	458.9	0.28	10.7	44.8	0.4	1.12	0.82	31.3	82.78	23.59	84.0
03/13/77	124.52	8.58	119.09	77.41	105.05	106.38	-1.33			5063.1	1.3	459.0	0.99	34.0	142.4	1.4	0.99	0.72	27.8	82.95	23.53	83.9
03/20/77	124.56	8.40	116.65	75.82	106.01	106.26	-1.25			5028.3	-54.8	456.5	0.00	0.0	0.0	0.0	1.46	1.23	46.9	82.74	23.52	83.7
03/27/77	124.40	8.76	121.59	79.03	104.93	106.15	-1.22			4978.7	-49.6	454.2	0.16	6.1	25.6	0.3	1.62	1.36	51.8	82.61	23.54	83.2
04/03/77	124.26	7.42	102.97	66.93	104.73	106.00	-1.27			4912.2	-66.5	451.1	0.00	0.0	0.0	0.0	1.50	1.34	50.5	82.49	23.51	82.9
04/10/77	124.14	6.54	90.76	59.00																		

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -379396 C2 = 91939.34 C3 = -742.7 C4 = 2				Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 271769.8 C2 = -69513.29 C3 = 563.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Predp. in/week	Lake Surface Predp. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area Predp. ac-feet	Overland Runoff Volume ac-feet													
07/03/77	123.06					102.51	103.01	-0.50			3658.7	-114.7	368.6	0.49	18.1	78.4	0.8	2.09	1.90	62.6	80.55	22.46	69.0		
07/10/77	123.00					102.41	102.74	-0.33			3551.3	-107.4	382.8	0.34	11.0	54.4	0.5	1.74	1.58	51.3	80.58	22.16	67.7		
07/17/77	122.88					102.17	102.43	-0.26			3436.6	-114.7	376.4	0.15	4.8	24.0	0.2	1.86	1.69	54.0	80.54	21.69	65.7		
07/24/77	122.74					101.97	102.11	-0.14			3317.1	-119.8	369.7	0.00	0.0	0.0	0.0	1.95	1.77	55.7	80.39	21.72	63.9		
07/31/77	122.90					102.15	101.84	0.31			3216.1	-100.9	364.0	0.46	14.2	73.6	0.7	1.91	1.74	53.6	80.36	21.45	62.3		
08/07/77	122.88					101.96	101.53	0.43			3104.8	-111.4	357.5	0.05	1.5	8.0	0.1	1.90	1.73	52.4	80.33	21.20	60.5		
08/14/77	122.82					101.66	101.40	0.46			3057.6	-47.2	354.7	1.68	50.0	268.8	2.7	1.52	1.38	41.2	80.23	21.17	58.8		
08/21/77	122.85					101.81	101.52	0.29			3100.7	43.2	357.3	4.35	128.6	696.0	7.0	1.36	1.16	34.2	80.25	21.27	58.2		
08/28/77	123.02					101.74	101.37	0.37			3047.5	-53.2	354.1	1.02	30.4	183.2	1.6	1.04	0.88	26.3	80.27	21.10	58.9		
09/04/77	123.10					101.78	101.18	0.60			2980.6	-66.9	350.1	0.64	18.9	102.4	1.0	1.15	0.98	26.8	80.38	20.80	57.9		
09/11/77	123.18					101.58	100.90	0.68			2884.8	-95.9	344.4	0.00	0.0	0.0	0.0	1.59	1.35	39.4	80.37	20.53	56.5		
09/18/77	123.14					101.67	100.95	0.72			2899.9	15.1	345.3	3.36	96.4	537.6	5.4	1.46	1.11	31.8	80.44	20.51	54.8		
09/25/77	123.38					101.63	100.82	0.81			2856.7	-43.2	342.7	1.27	36.5	203.2	2.0	1.23	0.93	26.9	80.64	20.18	54.9		
10/02/77	123.32	1.25	17.33	11.27	101.42	100.66	0.76			2802.4	-54.3	339.3	0.49	14.0	78.4	0.8	1.23	0.93	26.7	80.60	20.06	53.6			
10/09/77	123.10	0.95	11.84	7.70	101.20	100.44	0.76			2728.6	-73.6	334.7	0.03	0.8	4.8	0.0	1.37	1.04	29.4	80.48	19.96	52.8			
10/16/77	122.98				100.96	100.23	0.75			2656.7	-72.1	330.2	0.06	1.7	9.6	0.1	1.04	0.79	22.0	80.31	19.92	51.8			
10/23/77	122.80				100.76	100.01	0.75			2584.2	-72.5	325.8	0.00	0.0	0.0	0.0	1.10	0.78	21.5	80.18	19.83	51.0			
10/30/77	122.64				100.61	99.80	0.81			2517.6	-66.6	321.3	0.00	0.0	0.0	0.0	0.86	0.61	16.6	80.17	19.63	50.0			
11/06/77	122.62				100.51	99.63	0.88			2462.3	-55.3	317.6	0.21	5.8	33.6	0.3	0.85	0.46	12.4	80.30	19.33	48.9			
11/13/77	122.46				100.24	99.42	0.82			2398.5	-65.8	313.3	0.00	0.0	0.0	0.0	0.97	0.69	18.2	79.84	19.58	47.6			
11/20/77	122.34				100.06	99.21	0.87			2332.7	-63.8	309.0	0.00	0.0	0.0	0.0	0.75	0.62	16.3	79.78	19.43	47.5			
11/27/77	122.38				99.12	98.88	0.24			2303.6	-29.2	307.0	1.30	33.5	208.0	2.1	0.85	0.71	18.2	79.81	19.31	46.5			
12/04/77	122.40				99.63	98.99	0.64			2264.6	-36.9	304.3	0.75	19.2	120.0	1.2	0.63	0.52	13.4	79.97	19.02	46.0			
12/11/77	122.38				99.77	98.69	0.88			2234.6	-30.0	302.3	1.13	28.7	180.8	1.8	0.74	0.61	15.6	79.77	19.12	44.9			
12/18/77	122.44				99.74	98.85	0.89			2222.4	-12.2	301.4	1.55	39.0	248.0	2.5	0.46	0.35	8.9	80.18	18.69	44.8			
12/25/77	122.44				99.84	98.79	1.05			2204.2	-18.2	300.1	1.35	33.9	216.0	2.2	0.55	0.42	10.8	80.34	18.45	43.7			
01/01/78	122.38				99.64	98.69	0.95			2172.8	-31.3	297.9	0.79	19.8	126.4	1.3	0.49	0.38	9.4	80.34	18.35	42.9			
01/08/78	122.40				99.52	98.54	0.96			2129.3	-43.6	294.9	0.41	10.2	65.6	0.7	0.63	0.49	12.0	80.59	17.95	42.4			
01/15/78	122.40				99.42	98.53	0.89			2127.8	-1.5	294.8	2.09	51.4	334.4	3.3	0.80	0.62	15.1	80.43	18.10	41.0			
01/22/78	122.84				99.66	98.65	1.01			2163.3	35.6	297.3	3.29	60.8	526.4	5.3	0.54	0.37	9.2	80.72	17.93	41.4			
01/29/78	123.02				99.48	98.49	0.99			2114.0	-49.4	293.6	0.22	5.5	35.2	0.4	0.61	0.56	13.8	81.15	17.34	41.3			
02/05/78	123.22				99.30	98.41	0.89			2060.2	-23.7	292.1	0.83	20.3	132.8	1.3	0.35	0.24	5.9	81.61	16.80	39.5			
02/12/78	123.40	0.15	2.06	1.34	99.30	98.36	0.94			2075.5	-14.7	291.0	1.28	31.2	204.6	2.0	0.67	0.46	11.3	81.58	16.78	38.0			
02/19/78	123.80	1.38	19.10	12.42	99.22	98.47	0.75			2108.8	33.4	293.4	2.78	68.9	441.6	4.4	0.71	0.52	12.6	81.69	16.78	37.8			
02/26/78	123.98	3.67	50.98	33.14	99.10	98.39	0.71			2086.0	-22.9	291.8	0.00	0.0	0.0	0.0	1.00	0.73	17.8	81.58	16.81	36.2			
03/05/78	124.55	4.67	64.84	42.14	99.30	98.65	0.65			2162.2	78.2	297.2	3.33	81.0	532.8	5.3	0.80	0.58	14.2	81.81	16.84	36.0			
03/12/78	124.70	8.67	120.34	78.22	100.16	98.82	1.34			2212.7	50.6	300.7	0.93	23.0	146.8	1.5	0.74	0.54	13.4	82.17	16.65	36.8			
03/19/78	124.74	10.12	140.58	91.38	100.36	98.95	1.43			2252.0	39.3	303.5	0.37	9.3	59.2	0.6	1.10	0.82	23.2	82.36	16.59	36.8			
03/26/78	124.68	10.55	146.53	95.25	100.56	99.04	1.52			2278.7	26.7	305.3	0.00	0.0	0.0	0.0	1.39	1.17	29.5	82.71	16.33	39.0			
04/02/78	124.52	9.71	134.87	87.66	100.59	99.09	1.50			2295.9	17.2	308.5	0.00	0.0	0.0	0.0	1.49	1.25	31.8	82.77	16.32	38.6			
04/09/78	124.40	8.40	116.65	75.82	100.60	99.09	1.51			2295.6	-0.1	308.5	0.00	0.0	0.0	0.0	1.73	1.45	37.1	82.79	16.30	38.8			
04/16/78	124.32	7.42	102.97	68.93	100.61	99.12	1.49			2304.7	6.9	307.1	0.54	13.8	66.4	0.9	1.62	1.33	33.9	82.79	16.33	38.7			
04/23/78	124.30	6.82	94.68	61.54	100.69	99.07	1.62			2288.3	-16.4	306.0	0.10	2.6	16.0	0.2	1.99	1.63	41.8	82.69	16.36	36.9			
04/30/78	124.18	6.68	92.71	60.28	100.55	99.00	1.55			2266.9	-21.4	304.5	0.00	0.0	0.0	0.0	2.05	1.68	42.9	82.53	16.47	36.8			
05/07/78	124.38	5.87	81.51	52.98	100.79	99.20	1.59			2326.4	61.5	308.7	2.82	71.6	451.2	4.5	1.38	1.13	28.7	82.63	16.57	36.9			
05/14/78	124.42	7.28	100.84	65.54	100.83	99.19	1.64			2324.1	-4.2	308.4	0.28	7.2	44.8	0.4	1.79	1.47	37.8	82.66	16.50	36.6			
05/21/78	124.26	7.57	105.14	68.34	100.71	99.18	1.53			2321.6	-2.5	308.2	0.29	7.5	46.4	0.5	1.80	1.53	39.3	82.51	16.67	39.4			
05/28/78	124.18	6.40	88.85	57.75	100.59	99.10	1.49			2298.2	-23.4	306.6	0.06	1.5	9.6	0.1	1.97	1.67	43.0	82.31	16.79	39.8			
06/04/78	124.24	5.87	81.51	52.98	100.69	99.24	1.45			2342.0	43.8	309.6	2.54	64.9	408.4	4.1	1.76	1.50	36.2	82.44	16.80	39.9			
06/11/78	124.40	6.28	86.97	58.53	100.69	99.29	1.40			2355.3	13.3	310.5	0.95	24.5	152.0	1.5	1.32	1.12	28.9	82.32	16.87	40.3			
06/18/78	124.38	7.42	102.97	68.93	100.81	99.23	1.58			2337.0	-18.3	309.3	0.08	2.1	12.6	0.1	1.86	1.80	46.6	82.33	16.90	40.8			
06/25/78	124.24	7.26	100.84	65.54	100.88	99.23	1.65			2337.0	0.1	309.3	0.33	8.5	52.8	0.5	1.45	1.32	34.0	82.29	16.94	40.5			
07/02/78	124.32	6.26	86.97	56.53	100.89	99.12	1.77			2303.7	-33.3	307.0	0.00	0.0	0.0	0.0	2.10	1.91	46.3	82.25	16.87	40.6			
07/09/78	124.80	6.82	94.68	61.54	101.39	99.31	2.08			2363.7	60.0	311.1	2.91	74.4	465.6	4.7	1.74	1.58	40.5	82.41	16.80	40.1			
07/16/78	124.80	11.23	155.95	101.37	101.64	99.59	2.05			2450.4	86.7	316.9	2.14	55.5	342.4	3.4	1.39	1.28	32.8	82.55	17.04	40.8			
07/23/78	124.78	11.23	155.95	101.37	101.79	99.79	2.00			2513.6	63.2	321.0	1.23	32.5	196.8	2.0	1.26	1.16	30.8	82.53	17.28	41.9</			

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793668 C2 = 91839.34 C3 = -742.7 C4 = 2				Hmin= 115.2 C1 = 2711769.8 C2 = -66513.29 C3 = 593.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1820 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day					
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs						Brooklyn Discharge ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
				65%																				
10/01/78	124.89	13.82	191.94	124.76	106.19	103.61	2.58	3893.9	56.4	401.1	0.40	13.3	64.0	0.6	0.91	0.69	22.9	84.27	19.34	59.3				
10/08/78	124.80	12.33	171.22	111.30	106.10	103.65	2.45	3906.0	14.1	401.8	0.00	0.0	0.0	0.0	1.46	1.11	37.1	83.92	19.73	60.1				
10/15/78	124.80	11.23	155.95	101.37	106.09	103.67	2.42	3919.5	11.5	402.4	0.01	0.3	1.8	0.0	1.13	0.86	28.8	83.97	19.70	61.4				
10/22/78	124.58	11.23	155.95	101.37	106.01	103.71	2.30	3934.2	14.7	403.2	0.00	0.0	0.0	0.0	1.08	0.75	25.2	83.81	19.90	61.5				
10/29/78	124.48	8.94	124.14	80.99	105.94	103.70	2.24	3930.7	-3.5	403.0	0.10	3.4	16.0	0.2	1.07	0.76	25.5	83.75	19.95	62.2				
11/05/78	124.40	8.06	111.91	72.74	105.79	103.66	2.13	3914.6	-16.1	402.1	0.00	0.0	0.0	0.0	1.11	0.79	26.5	83.50	20.16	62.3				
11/12/78	124.37	7.42	102.97	66.93	105.65	103.62	2.03	3899.4	-15.2	401.3	0.00	0.0	0.0	0.0	0.81	0.58	19.3	83.31	20.31	62.9				
11/19/78	124.35	7.19	98.79	64.86	105.56	103.57	1.99	3877.8	-21.7	400.2	0.00	0.0	0.0	0.0	0.84	0.70	23.3	83.07	20.50	63.2				
11/26/78	124.31	7.04	97.72	63.52	105.40	103.52	1.88	3856.4	-21.4	399.1	0.00	0.0	0.0	0.0	0.77	0.64	21.3	83.07	20.45	63.6				
12/03/78	124.50	6.75	93.69	60.90	105.56	103.70	1.86	3930.4	74.0	403.0	2.84	94.5	454.4	4.5	0.82	0.68	22.6	83.02	20.68	63.3				
12/10/78	124.42	8.23	114.25	74.27	105.41	103.70	1.71	3926.5	-1.9	402.9	0.25	8.4	40.0	0.4	0.73	0.61	20.3	82.85	20.65	64.6				
12/17/78	124.30	7.57	105.14	68.34	105.30	103.69	1.61	3927.6	-0.9	402.8	0.36	12.1	57.6	0.6	0.65	0.50	16.8	82.76	20.69	65.1				
12/24/78	124.25	6.88	92.71	60.26	105.20	103.67	1.53	3916.1	-11.4	402.2	0.35	11.7	56.0	0.6	0.72	0.56	18.6	83.03	20.64	65.4				
12/31/78	124.25	6.33	87.91	57.14	105.21	103.70	1.51	3928.2	12.1	402.8	0.99	33.2	156.4	1.6	0.60	0.46	15.5	82.84	20.66	64.3				
01/07/79	124.24	6.33	87.91	57.14	105.26	103.77	1.49	3957.8	29.6	404.4	1.56	52.4	249.6	2.5	0.67	0.52	17.3	82.96	20.81	65.1				
01/14/79	124.35	6.26	86.97	56.53	105.26	103.96	1.30	4034.1	76.3	408.3	2.79	94.0	446.4	4.5	0.52	0.40	13.5	82.99	20.97	65.2				
01/21/79	124.66	7.04	97.72	63.52	105.35	104.12	1.23	4101.2	67.1	411.7	2.32	78.9	371.2	3.7	0.54	0.37	12.7	83.28	20.84	66.4				
01/28/79	124.85	9.71	134.87	87.66	105.46	104.27	1.19	4161.3	60.1	414.6	1.54	52.8	246.4	2.5	0.69	0.48	16.3	83.17	21.10	66.5				
02/04/79	124.94	11.83	164.28	106.77	105.56	104.36	1.20	4199.2	37.9	416.7	0.48	16.6	78.8	0.8	0.77	0.53	18.4	83.02	21.34	67.8				
02/11/79	125.04	12.99	180.35	117.23	105.73	104.54	1.19	4274.3	75.1	420.4	1.10	38.2	176.0	1.8	0.55	0.38	13.2	83.13	21.41	68.9				
02/18/79	125.04	14.41	200.08	130.04	105.81	104.64	1.17	4316.2	41.9	422.5	0.00	0.0	0.0	0.0	0.72	0.53	18.4	83.10	21.54	69.8				
02/25/79	125.50	14.41	200.08	130.04	106.07	104.84	1.23	4404.8	86.7	426.9	1.24	43.7	196.4	2.0	0.64	0.47	16.5	83.42	21.42	70.5				
03/04/79	125.40	23.07	320.30	208.19	106.19	105.11	1.08	4519.0	114.2	432.5	0.00	0.0	0.0	0.0	0.89	0.65	23.1	83.06	22.05	70.9				
03/11/79	125.18	20.86	289.57	188.22	106.55	105.40	1.15	4643.1	124.0	436.4	1.00	36.0	180.0	1.6	1.06	0.77	27.9	83.26	22.12	73.9				
03/18/79	125.07	16.65	231.22	150.29	106.63	105.48	1.15	4678.6	35.5	440.1	0.00	0.0	0.0	0.0	1.29	1.06	39.6	83.06	22.42	75.2				
03/25/79	124.98	14.86	206.38	134.15	106.70	105.51	1.19	4694.4	15.8	440.9	0.17	6.2	27.2	0.3	1.57	1.32	48.4	83.23	22.28	76.5				
04/01/79	124.88	13.54	187.99	122.20	106.57	105.51	1.06	4693.8	-0.6	440.8	0.00	0.0	0.0	0.0	1.51	1.27	46.6	82.89	22.62	76.2				
04/08/79	125.01	12.20	169.46	110.15	106.90	105.77	1.13	4806.2	114.4	448.2	3.23	118.7	516.8	5.2	1.37	1.15	42.3	83.06	22.71	77.3				
04/15/79	125.04	13.97	193.94	126.06	107.07	105.94	1.13	4886.6	78.4	449.9	2.07	77.0	331.2	3.3	1.62	1.33	49.4	83.11	22.89	78.6				
04/22/79	124.84	14.41	200.08	130.04	107.02	105.94	1.08	4894.8	-1.9	449.8	0.00	0.0	0.0	0.0	1.70	1.39	52.3	82.89	23.05	79.6				
04/29/79	124.82	11.71	162.56	105.86	107.17	106.11	1.06	4962.4	77.6	453.4	2.46	93.0	396.8	4.0	1.45	1.19	44.6	83.03	23.08	80.4				
05/06/79	124.79	11.47	158.22	103.49	107.26	106.20	1.06	5003.6	41.2	455.3	1.65	62.3	264.0	2.6	1.49	1.22	46.2	83.06	23.12	81.1				
05/13/79	124.77	11.12	154.34	100.32	107.26	106.27	1.01	5035.1	31.5	456.6	1.19	45.2	190.4	1.9	1.10	0.90	34.2	83.20	23.07	81.6				
05/20/79	124.75	10.89	151.17	98.26	107.16	106.23	0.93	5018.5	-16.7	456.0	0.41	15.8	65.6	0.7	1.53	1.30	49.5	83.32	22.91	81.7				
05/27/79	124.72	10.66	148.06	96.24	106.93	106.17	0.76	4988.8	-29.6	454.6	0.27	10.3	43.2	0.4	1.72	1.46	55.6	83.16	23.01	81.0				
06/03/79	124.70	10.34	143.52	93.29	106.69	106.17	0.52	4991.3	2.5	454.8	1.05	39.8	168.0	1.7	1.59	1.35	51.2	83.17	23.00	81.1				
06/10/79	124.65	10.12	140.58	91.38	106.65	106.07	0.58	4943.6	-47.7	452.6	0.00	0.0	0.0	0.0	1.80	1.53	58.0	83.00	23.07	81.1				
06/17/79	124.40	9.81	133.48	86.76	106.86	106.02	0.84	4919.9	-23.6	451.5	0.49	18.5	78.4	0.8	1.42	1.29	48.7	83.19	22.83	80.9				
06/24/79	124.38	7.42	102.97	66.93	106.41	106.06	0.35	4941.3	21.3	452.4	2.28	65.8	364.8	3.6	1.61	1.47	55.1	83.08	22.98	79.9				
07/01/79	124.33	7.26	100.84	65.54	106.33	105.99	0.34	4906.0	-33.2	450.9	0.97	36.6	155.2	1.6	1.64	1.49	56.3	83.12	22.87	80.6				
07/08/79	124.32	6.89	95.69	62.20	106.31	105.85	0.46	4945.2	-62.9	448.0	0.48	18.0	76.8	0.8	1.87	1.70	63.9	83.25	22.60	79.9				
07/15/79	124.34	6.82	94.68	61.54	106.24	105.74	0.50	4794.3	-50.8	445.6	0.50	18.7	80.0	0.8	1.57	1.43	53.3	83.22	22.52	78.5				
07/22/79	124.47	6.96	96.70	62.85	106.27	105.75	0.52	4800.0	5.7	445.9	1.64	60.9	262.4	2.6	1.27	1.16	42.9	83.34	22.41	77.8				
07/29/79	124.44	7.98	110.75	71.99	106.13	105.66	0.47	4760.6	-39.2	444.0	0.56	20.8	89.6	0.9	1.64	1.49	55.5	83.29	22.37	77.5				
08/05/79	124.48	7.73	107.35	69.78	106.06	105.67	0.39	4766.2	5.4	444.3	1.81	59.6	257.6	2.6	1.47	1.34	49.5	83.36	22.32	77.0				
08/12/79	124.40	8.06	111.91	72.74	105.71	105.92	-0.21	4878.1	111.9	449.5	4.20	155.5	672.0	6.7	1.37	1.25	46.2	83.41	22.51	76.9				
08/19/79	124.46	7.42	102.97	66.93	105.79	105.84	-0.05	4839.5	-38.6	447.7	0.35	13.1	56.0	0.6	1.28	1.09	40.8	83.35	22.49	78.5				
08/26/79	124.47	7.89	106.60	71.24	105.71	105.85	-0.14	4846.7	7.2	448.1	1.60	59.7	256.0	2.6	1.52	1.29	46.2	83.27	22.58	78.1				
09/02/79	124.45	7.98	110.75	71.99	105.53	105.82	-0.29	4832.0	-14.8	447.4	0.86	35.8	153.6	1.5	1.44	1.22	45.7	83.26	22.56	78.4				
09/09/79	124.44	7.81	108.47	70.51	105.51	106.00	-0.49	4912.4	80.4	451.1	3.36	125.3	537.6	5.4	1.34	1.14	42.5	83.21	22.79	78.2				
09/16/79	124.62	7.73	107.35	69.78	105.79	106.15	-0.45	4979.9	67.5	454.2	2.82	106.0	451.2	4.5	1.16	0.88	33.1	83.43	22.72	79.7				
09/23/79	124.69	9.32	129.39	84.10	105.74	106.11	-0.37	4983.7	-16.1	453.5	0.26	9.8	41.8	0.4	1.06	0.81	30.5	83.66	22.43	80.0				
09/30/79	124.68	10.02	139.13	90.43	105.66	106.58	-0.70	5166.2	202.5	462.7	5.67	214.3	907.2	9.1	1.13	0.86	32.5	84.03	22.53	78.9				
10/07/79	124.86	9.82	137.69	89.50	105.77	106.50	-0.73	5138.5	-27.7	461.5	0.06	3.1	12.8	0.1	1.35	1.03	39.6	84.06	22.44	80.6				
10/14/79	124.89	11.85	165.97																					

BROOKLYN LAKE LONG - TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -379398 C2 = 91939.34 C3 = -742.7 C4 = 2						Hmin = 115.2 C1 = 2711799.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903						Drainage area = 1920 Runoff Coeff. = 0.01						Leakance = 1.107E-03 1/day					
	Magnolia		Effective		Measured	Calculated	Elevation	Elevation	Elevation	Brooklyn	Change in	Brooklyn	Brooklyn	Etonia	Lake	Drainage	Overland	Gainesville	Brooklyn	Brooklyn	Brooklyn	Floridan	Lake -	Brooklyn
	Elevation	Discharge	Magnolia	Discharge																				
01/06/80	125.20	18.05	231.22	150.29	105.89	107.85	-1.96		5784.7	91.6	489.9	1.10	44.5	176.0	1.8	0.54	0.42	16.8	84.00	23.85	89.2			
01/13/80	125.22	17.00	236.03	153.42	108.07	108.09	-2.02		5900.2	115.5	494.8	1.50	81.2	240.0	2.4	0.35	0.27	11.0	84.09	24.00	90.6			
01/20/80	125.24	17.35	240.94	156.61	108.15	108.21	-2.06		5956.5	56.3	497.3	0.22	9.1	35.2	0.4	0.55	0.38	15.6	84.01	24.20	92.1			
01/27/80	125.33	17.62	244.68	159.04	108.51	108.57	-2.06		6138.4	179.9	504.8	3.25	134.7	520.0	5.2	0.90	0.62	25.7	84.36	24.21	93.3			
02/03/80	125.36	19.42	269.66	175.29	108.71	108.70	-1.99		6206.0	67.7	507.6	0.13	5.5	20.8	0.2	0.64	0.44	18.6	84.31	24.39	94.7			
02/10/80	125.31	20.03	278.04	180.73	108.77	108.83	-2.06		6273.3	106.7	510.4	0.12	5.1	19.2	0.2	0.78	0.54	22.8	84.63	24.20	96.0			
02/17/80	125.28	19.03	284.23	171.75	108.82	109.00	-2.08		6356.2	84.9	513.9	0.61	25.9	97.8	1.0	0.58	0.42	18.0	84.66	24.34	95.8			
02/24/80	125.21	18.08	251.04	163.18	107.12	109.17	-2.05		6447.4	89.2	517.5	1.13	48.4	180.8	1.8	0.87	0.64	27.2	84.54	24.63	96.9			
03/02/80	125.19	17.18	238.47	155.01	107.12	109.25	-2.13		6489.6	42.1	519.2	0.27	11.6	43.2	0.4	0.83	0.61	26.1	84.74	24.51	98.8			
03/09/80	125.19	16.83	233.62	151.85	107.34	109.38	-2.02		6547.9	58.3	521.5	0.86	37.2	137.6	1.4	1.06	0.77	33.5	84.81	24.75	98.7			
03/16/80	125.21	16.83	233.62	151.85	107.48	109.45	-1.97		6593.6	45.7	523.4	0.83	36.1	132.8	1.3	1.19	1.00	43.4	84.82	24.83	100.1			
03/23/80	125.14	17.18	238.47	155.01	107.50	109.47	-1.97		6601.0	7.3	523.7	0.04	1.7	6.4	0.1	1.33	1.12	48.7	84.57	24.90	100.7			
03/30/80	125.08	15.98	221.87	144.22	107.81	109.55	-1.94		6643.1	42.1	525.3	0.99	43.2	158.4	1.6	1.25	1.05	45.8	84.86	24.69	101.1			
04/06/80	125.04	15.02	208.53	135.54	107.86	109.60	-1.94		6776.8	133.7	530.6	3.14	137.5	502.4	5.0	1.19	1.00	43.8	84.86	24.94	100.5			
04/13/80	125.01	14.41	200.05	130.04	107.95	109.77	-1.82		6758.9	-17.9	529.9	0.15	6.6	24.0	0.2	1.44	1.18	52.2	84.98	24.79	102.6			
04/20/80	124.98	13.97	193.94	126.06	107.98	109.79	-1.81		6774.3	15.4	530.5	0.89	39.3	142.4	1.4	1.37	1.12	49.8	85.03	24.78	101.8			
04/27/80	124.94	13.54	187.99	122.20	107.94	109.71	-1.77		6730.8	-43.5	528.8	0.00	0.0	0.0	0.0	1.78	1.44	63.8	84.82	24.89	101.9			
05/04/80	124.90	12.99	180.35	117.23	107.79	109.65	-1.86		6697.0	-33.8	527.5	0.02	0.9	3.2	0.0	1.38	1.13	49.9	84.69	24.96	102.0			
05/11/80	124.86	12.46	173.01	112.48	107.83	109.77	-1.94		6763.1	66.1	530.1	2.29	100.7	388.4	3.7	1.35	1.11	48.7	84.89	25.08	102.1			
05/18/80	124.91	11.95	165.97	107.88	107.80	109.77	-1.87		6780.3	-2.8	530.0	0.90	39.8	144.0	1.4	1.30	1.11	48.8	84.89	25.08	103.1			
05/25/80	124.83	12.59	174.82	113.63	108.07	109.83	-1.76		6794.7	34.4	531.3	1.84	61.3	294.4	2.9	1.61	1.37	60.4	84.91	24.92	103.0			
06/01/80	124.90	12.86	178.49	116.02	107.95	109.74	-1.79		6746.5	-48.1	529.4	0.03	1.3	4.8	0.0	1.67	1.42	62.9	84.84	25.10	102.7			
06/08/80	124.80	12.46	173.01	112.46	107.79	109.61	-1.82		6677.6	-68.9	528.7	0.00	0.0	0.0	0.0	2.09	1.78	78.4	84.32	25.29	103.0			
06/15/80	124.69	11.23	155.95	101.37	107.80	109.49	-1.89		6615.3	-62.2	524.2	0.21	9.2	33.6	0.3	1.75	1.59	69.9	84.06	25.43	103.3			
06/22/80	124.65	9.92	137.69	89.50	107.59	109.40	-1.81		6586.3	-49.0	522.3	0.89	30.1	110.4	1.1	1.67	1.52	68.4	83.95	25.45	103.4			
06/29/80	124.65	9.61	133.48	86.76	107.51	109.37	-1.86		6551.5	-14.8	521.7	1.20	52.2	192.0	1.9	1.33	1.21	52.7	83.84	25.53	103.0			
07/06/80	124.79	9.61	133.48	86.76	107.41	109.28	-1.87		6504.1	-47.4	519.8	0.78	33.9	124.8	1.2	1.67	1.52	66.1	83.46	25.82	103.3			
07/13/80	124.96	11.12	154.34	100.32	107.34	109.18	-1.84		6452.2	-51.9	517.7	0.70	30.3	112.0	1.1	2.02	1.84	79.6	83.57	25.61	104.0			
07/20/80	125.06	13.54	187.99	122.20	107.80	109.13	-1.90		6427.0	-25.2	516.6	0.86	28.5	106.6	1.1	1.89	1.72	74.2	83.54	25.59	102.8			
07/27/80	125.20	14.71	204.25	132.76	107.82	109.58	-1.76		6658.7	231.7	526.0	5.74	247.1	918.4	9.2	1.40	1.27	54.9	83.84	25.74	102.5			
08/03/80	125.20	17.00	236.03	153.42	107.83	109.62	-1.79		6684.7	25.9	527.0	0.97	42.5	156.2	1.6	1.67	1.52	68.6	83.82	25.70	104.9			
08/10/80	125.21	17.00	236.03	153.42	107.80	109.62	-1.82		6680.8	-3.8	526.8	0.38	18.7	60.8	0.6	1.74	1.58	69.5	83.91	25.71	105.0			
08/17/80	125.21	17.18	238.47	155.01	108.21	109.70	-1.49		6725.1	44.3	528.6	0.99	43.5	158.4	1.8	1.38	1.18	50.8	84.11	25.59	105.0			
08/24/80	125.14	17.18	238.47	155.01	108.13	109.82	-1.69		6788.2	61.1	531.0	1.33	58.6	212.8	2.1	1.33	1.13	49.8	84.13	25.69	104.9			
08/31/80	124.92	15.98	221.87	144.22	108.23	109.82	-1.59		6786.8	2.6	531.1	0.48	21.2	78.8	0.8	1.54	1.31	57.9	84.01	25.81	105.7			
09/07/80	124.80	12.72	176.84	114.82	108.79	109.79	-1.91		6789.9	-18.9	530.4	0.55	24.3	86.0	0.9	1.40	1.19	52.7	84.02	25.77	106.3			
09/14/80	124.73	11.23	155.95	101.37	107.71	109.73	-2.02		6741.7	-26.1	529.3	0.36	16.8	60.8	0.6	1.22	0.93	41.0	83.78	25.95	105.9			
09/21/80	124.78	10.45	145.02	94.26	107.72	109.70	-1.98		6726.4	-15.3	528.6	0.82	36.2	131.2	1.3	1.21	0.92	40.6	83.77	25.93	105.5			
09/28/80	124.78	10.78	149.81	97.24	107.56	109.67	-2.11		6706.5	-19.9	527.9	0.85	28.6	104.0	1.0	1.21	0.92	40.5	83.55	26.12	106.3			
10/05/80	124.63	10.78	149.81	97.24	107.48	109.70	-2.22		6724.0	17.5	528.6	1.46	64.2	233.6	2.3	1.18	0.90	39.4	83.45	26.25	106.9			
10/12/80	124.50	9.42	130.74	84.98	107.26	109.58	-2.32		6659.3	-64.8	526.0	0.00	0.0	0.0	0.0	1.26	0.96	42.2	83.41	26.17	107.8			
10/19/80	124.38	8.23	114.25	74.27	107.06	109.44	-2.38		6588.9	-70.4	523.2	0.00	0.0	0.0	0.0	1.22	0.87	38.0	83.27	26.12	106.7			
10/26/80	124.35	7.26	100.84	65.54	106.38	109.38	-2.47		6555.3	-33.5	521.8	0.80	34.9	126.0	1.3	0.94	0.67	29.1	82.98	26.47	106.1			
11/02/80	124.30	7.04	97.72	63.52	106.83	109.32	-2.49		6526.3	-29.0	520.7	0.75	32.6	120.0	1.2	0.83	0.45	19.5	83.01	26.31	106.9			
11/09/80	124.22	6.68	92.71	60.26	106.22	109.22	-2.58		6471.7	-54.7	518.5	0.32	13.9	51.2	0.5	0.75	0.53	23.1	82.96	26.28	106.2			
11/16/80	124.28	6.13	85.12	55.33	106.52	109.07	-2.55		6393.1	-78.5	515.3	0.00	0.0	0.0	0.0	0.79	0.66	26.3	82.97	26.10	105.5			
11/23/80	124.24	6.54	90.78	59.00	106.35	108.98	-2.63		6349.4	-43.7	513.5	0.53	22.8	84.8	0.8	0.82	0.51	22.1	82.91	26.07	104.2			
11/30/80	124.22	6.26	88.97	56.53	106.24	108.90	-2.66		6310.5	-38.9	511.9	0.56	24.8	92.8	0.9	0.49	0.41	17.4	82.82	26.08	103.8			
12/07/80	124.18	6.13	85.12	55.33	106.05	108.78	-2.71		6237.5	-73.0	508.9	0.00	0.0	0.0	0.0	0.70	0.58	24.8	82.89	25.87	103.5			
12/14/80	124.12	5.87	81.51	52.98	105.90	108.62	-2.72		6186.6	-71.0	506.0	0.00	0.0	0.0	0.0	0.67	0.52	21.9	82.83	25.89	102.1			
12/21/80	124.08	5.49	78.29	49.59	105.74	108.49	-2.75		6099.4	-67.2	503.2	0.21	8.9	33.6	0.3	0.74	0.57	24.0	82.39	26.10	102.0			
12/28/80	124.00	5.13	71.28	46.33	105.52	108.35	-2.83		6028.4	-70.9	500.2	0.08	2.5	9.6	0.1	0.56	0.43	18.1	82.57	25.78	101.8			
01/04/81	123.92	4.78	66.42	43.17	105.33	108.20	-2.87		5953.1	-75.3	497.1	0.01	0.4	1.6	0.0	0.59	0.45	16.9	82.31	25.89	100.0			
01/11/81	123.90	4.33	60.15	39.10	105.19	108.10	-2.91		5906.9	-48.2	495.1	0.75												

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793666 C2 = 91939.34 C3 = -742.7 C4 = 2				Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7837 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Magnoia Elevation ft	Magnoia Discharge cfs	Magnoia Discharge ac-feet	Effective Magnoia Discharge ac-feet					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area ac-feet	Overland Runoff Volume ac-feet						Florida Aquifer Elevation elev	Florida Aquifer Elevation ft				Brooklyn Leakage ac-feet		
04/05/81	124.54	8.94	124.14	80.69	104.39	107.18	-2.79	5460.6	-32.0	475.9	0.66	28.3	105.6	1.1	1.44	1.21	48.1	1.21	1.21	1.21	82.45	24.73	91.9		
04/12/81	124.45	8.58	119.09	77.41	104.21	107.05	-2.84	5397.2	-63.4	473.1	0.02	0.8	3.2	0.0	1.55	1.27	50.4	1.27	1.27	1.27	82.21	24.64	91.2		
04/19/81	124.30	7.81	108.47	70.51	104.04	106.90	-2.86	5324.2	-73.0	469.8	0.00	0.0	0.0	0.0	1.62	1.33	52.4	1.33	1.33	1.33	82.10	24.80	91.1		
04/26/81	124.18	6.68	92.71	60.26	103.84	106.78	-2.92	5260.8	-63.4	467.0	0.38	14.9	60.8	0.8	1.52	1.25	48.8	1.25	1.25	1.25	81.99	24.77	90.3		
05/03/81	124.10	5.87	81.51	52.98	103.58	106.55	-2.99	5165.4	-95.4	462.7	0.00	0.0	0.0	0.0	1.84	1.51	58.7	1.51	1.51	1.51	81.42	25.13	89.7		
05/10/81	123.84	5.37	74.60	48.49	103.36	106.34	-2.98	5067.6	-97.8	458.3	0.05	1.9	8.0	0.1	1.84	1.51	58.2	1.51	1.51	1.51	81.03	25.31	90.2		
05/17/81	123.77	3.89	54.02	35.11	103.07	106.08	-3.01	4947.5	-120.1	452.7	0.00	0.0	0.0	0.0	2.01	1.71	65.2	1.71	1.71	1.71	81.03	25.05	89.9		
05/24/81	123.66	3.51	48.71	31.66	102.62	105.79	-2.97	4819.1	-128.4	446.8	0.00	0.0	0.0	0.0	2.25	1.91	72.2	1.91	1.91	1.91	80.78	25.01	87.9		
05/31/81	123.60	2.90	40.32	26.21	102.71	105.58	-2.87	4724.4	-94.7	442.3	0.78	29.0	124.8	1.2	2.04	1.73	64.6	1.73	1.73	1.73	80.81	24.77	86.6		
06/07/81	123.44	2.57	35.65	23.18	102.36	105.41	-3.05	4648.0	-76.4	438.7	1.37	50.5	219.2	2.2	2.15	1.83	67.4	1.83	1.83	1.83	80.79	24.62	84.9		
06/14/81	123.38	1.63	22.58	14.67	102.34	105.27	-2.93	4589.7	-58.3	435.9	1.92	70.2	307.2	3.1	1.88	1.71	62.5	1.71	1.71	1.71	80.74	24.53	83.7		
06/21/81	123.30	1.25	17.33	11.27	102.15	105.19	-3.04	4553.4	-36.3	434.1	2.77	100.6	443.2	4.4	2.11	1.92	69.7	1.92	1.92	1.92	80.70	24.49	82.9		
06/28/81	123.22	0.72	9.96	6.47	101.90	104.98	-3.06	4453.3	-100.1	429.3	0.73	28.4	116.8	1.2	1.57	1.43	51.7	1.43	1.43	1.43	80.63	24.33	82.4		
07/05/81	123.11	0.15	2.08	1.34	101.73	104.64	-2.91	4316.7	-136.6	422.6	0.00	0.0	0.0	0.0	1.75	1.59	57.0	1.59	1.59	1.59	80.53	24.11	81.0		
07/12/81	123.18				101.60	104.40	-2.80	4217.0	-99.7	417.6	0.89	31.3	142.4	1.4	1.67	1.52	53.5	1.52	1.52	1.52	80.36	24.04	79.0		
07/19/81	123.26				101.59	104.20	-2.61	4134.9	-62.1	413.4	1.24	43.2	198.4	2.0	1.56	1.42	49.4	1.42	1.42	1.42	80.33	23.67	77.6		
07/26/81	123.28	0.44	6.08	3.95	101.49	103.93	-2.44	4021.5	-113.4	407.7	0.05	1.7	8.0	0.1	1.36	1.24	42.6	1.24	1.24	1.24	80.32	23.61	76.5		
08/02/81	123.37	0.58	8.03	5.22	101.67	103.71	-2.04	3933.4	-88.1	403.1	0.78	25.8	121.6	1.2	1.48	1.35	45.8	1.35	1.35	1.35	80.58	23.13	74.6		
08/09/81	123.46	1.18	16.43	10.68	101.46	103.57	-2.11	3878.3	-55.1	400.2	1.81	60.8	289.6	2.9	1.87	1.70	57.2	1.70	1.70	1.70	80.57	23.00	72.3		
08/16/81	123.55	1.75	24.28	15.78	101.33	103.37	-2.04	3799.3	-79.1	396.1	0.22	7.3	35.2	0.4	1.10	0.94	31.2	0.94	0.94	0.94	80.63	22.74	71.4		
08/23/81	123.64	2.28	31.68	20.59	101.36	103.25	-1.89	3750.1	-49.2	393.5	0.78	25.7	124.8	1.2	0.96	0.82	26.9	0.82	0.82	0.82	80.62	22.63	69.8		
08/30/81	124.00	2.79	38.78	25.20	101.48	103.22	-1.74	3737.5	-12.5	392.8	1.89	62.0	302.4	3.0	1.21	1.03	33.7	1.03	1.03	1.03	80.65	22.37	69.0		
09/06/81	124.10	4.78	66.42	43.17	101.29	103.09	-1.80	3688.5	-49.0	390.2	0.28	9.2	44.8	0.4	1.21	1.03	33.7	1.03	1.03	1.03	80.92	22.17	68.1		
09/13/81	124.18	5.37	74.60	48.49	101.12	102.99	-1.87	3650.8	-37.7	388.2	0.41	13.3	65.6	0.7	1.34	1.02	33.1	1.02	1.02	1.02	81.05	21.94	67.1		
09/20/81	124.24	5.87	81.51	52.98	101.11	102.93	-1.82	3626.3	-24.6	386.6	0.66	21.3	105.6	1.1	1.36	1.05	33.9	1.05	1.05	1.05	81.14	21.79	66.0		
09/27/81	124.18	6.28	86.97	56.53	100.94	102.83	-1.89	3585.6	-40.7	384.6	0.00	0.0	0.0	0.0	1.30	0.99	31.8	0.99	0.99	0.99	81.24	21.59	65.3		
10/04/81	124.02	5.74	79.75	51.84	100.67	102.69	-2.02	3534.1	-51.5	381.8	0.00	0.0	0.0	0.0	1.60	1.22	39.0	1.22	1.22	1.22	81.07	21.62	64.4		
10/11/81	123.90	4.90	68.02	44.22	100.46	102.58	-2.12	3490.4	-43.7	379.4	0.13	4.1	20.8	0.2	1.17	0.99	28.3	0.99	0.99	0.99	80.88	21.70	64.0		
10/18/81	123.72	4.22	58.61	38.09	100.16	102.44	-2.28	3438.4	-52.0	376.0	0.00	0.0	0.0	0.0	1.17	0.83	26.3	0.83	0.83	0.83	80.74	21.70	63.8		
10/25/81	123.84	3.23	44.91	29.19	99.98	102.34	-2.36	3401.0	-37.4	374.4	0.65	20.4	104.0	1.0	1.11	0.79	24.7	0.79	0.79	0.79	80.89	21.45	63.3		
11/01/81	123.62	2.79	38.78	25.20	99.86	102.20	-2.34	3349.8	-51.2	371.6	0.07	2.2	11.2	0.1	0.74	0.53	18.4	0.53	0.53	0.53	80.77	21.43	62.3		
11/08/81	123.64	2.68	37.22	24.19	99.70	102.22	-2.52	3357.4	7.6	372.0	2.00	61.9	320.0	3.2	0.91	0.65	20.0	0.65	0.65	0.65	80.76	21.46	61.7		
11/15/81	123.70	2.79	38.78	25.20	99.60	102.22	-2.62	3356.7	-0.7	372.0	1.65	51.1	294.0	2.6	0.69	0.57	17.8	0.69	0.69	0.69	80.88	21.34	61.9		
11/22/81	123.84	3.12	43.39	28.20	99.40	102.11	-2.71	3316.8	-39.9	369.7	0.50	15.5	80.0	0.8	0.89	0.74	22.9	0.74	0.74	0.74	80.78	21.35	61.5		
11/29/81	123.60	2.79	38.78	25.20	99.21	101.98	-2.75	3260.7	-58.1	366.5	0.01	0.3	1.8	0.0	0.80	0.66	20.5	0.66	0.66	0.66	80.73	21.32	61.2		
12/06/81	123.60	2.57	35.65	23.18	99.04	101.69	-2.65	3233.5	-27.1	365.0	0.95	29.0	152.0	1.5	0.81	0.67	20.5	0.67	0.67	0.67	80.57	21.23	60.3		
12/13/81	123.50	2.57	35.65	23.18	98.86	101.78	-2.89	3185.8	-47.7	362.2	0.13	4.0	20.8	0.2	0.63	0.49	14.8	0.49	0.49	0.49	80.48	21.28	60.3		
12/20/81	123.44	1.99	27.62	17.96	98.64	101.60	-2.96	3130.2	-55.6	359.0	0.02	0.8	3.2	0.0	0.62	0.48	14.4	0.48	0.48	0.48	80.26	21.34	59.7		
12/27/81	123.50	1.83	22.58	14.67	98.62	101.55	-2.93	3110.6	-19.6	357.8	1.06	31.7	169.6	1.7	0.36	0.28	8.3	0.28	0.28	0.28	80.68	20.87	59.4		
01/03/82	123.60	1.99	27.62	17.96	98.58	101.47	-2.89	3062.2	-28.4	356.2	0.87	25.9	139.2	1.4	0.69	0.53	15.8	0.53	0.53	0.53	80.52	20.95	57.9		
01/10/82	123.58	2.57	35.65	23.18	98.34	101.37	-3.03	3049.0	-33.2	354.2	0.58	17.2	92.8	0.9	0.73	0.56	16.7	0.56	0.56	0.56	80.40	20.97	57.8		
01/17/82	124.08	2.45	34.08	22.15	98.66	101.60	-2.94	3129.1	80.1	358.9	4.06	120.4	652.8	6.5	0.56	0.39	11.4	0.39	0.39	0.39	80.59	21.01	57.6		
01/24/82	124.22	5.25	72.93	47.40	98.54	101.52	-2.98	3101.8	-27.4	357.3	0.00	0.0	0.0	0.0	0.79	0.55	16.3	0.55	0.55	0.55	80.91	20.61	58.5		
01/31/82	124.24	6.13	85.12	55.33	98.38	101.47	-3.09	3082.1	-19.6	356.2	0.00	0.0	0.0	0.0	0.87	0.80	17.9	0.80	0.80	0.80	81.05	20.42	57.1		
02/07/82	124.38	6.28	86.97	56.53	98.24	101.53	-3.29	3104.7	22.6	357.5	1.15	34.1	184.0	1.8	0.66	0.46	13.5	0.46	0.46	0.46	80.91	20.62	58.4		
02/14/82	124.44	7.28	100.84	65.54	98.16	101.58	-3.42	3122.9	18.2	358.6	0.77	22.9	123.2	1.2	0.66	0.48	14.4	0.48	0.48	0.48	80.86	20.62	57.1		
02/21/82	124.42	7.73	107.35	68.44	98.14	101.81	-3.37	3208.3	83.4	363.4	3.37	92.0	492.8	4.9	1.18	0.88	25.7	0.88	0.88	0.88	81.12	20.79	57.6		
02/28/82	124.30	7.57	105.14	68.34	98.62	101.78	-2.96	3196.3	-10.1	362.8	0.00	0.0	0.0	0.0	0.91	0.66	20.1	0.66	0.66	0.66	80.91	20.67	58.3		
03/07/82	124.40	6.68	92.71	60.26	99.34	101.93	-2.59	3248.5	52.2	365.8	2.27	68.6	363.2	3.6	0.98	0.72	21.6	0.72	0.72	0.72	81.35	20.58	58.7		
03/14/82	124.32	7.42	102.97	68.63	99.36	101.87	-2.51	3226.3	-22.2																

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -370366 C2 = 91939.34 C3 = -742.7 C4 = 2							Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903							Drainage area = 1920 Runoff Coeff. = 0.01				Leakance = 1.107E-03 /day			
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etona Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Florida Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft	Brooklyn Leakage ac-feet		
	Magnolia Elevation ft	Magnolia Discharge cfs				Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet														Brooklyn Discharge cfs	Brooklyn Discharge ac-feet
07/04/82	124.80	12.46	173.01	112.46	101.12	102.74	-1.62	3553.1	3.3	362.9	0.05	1.6	8.0	0.1	1.71	1.56	49.6	82.20	20.54	61.2		
07/11/82	124.86	11.23	155.95	101.37	101.30	102.82	-1.52	3565.2	32.1	364.6	0.73	23.3	116.8	1.2	1.13	1.03	32.8	82.50	20.32	61.0		
07/18/82	124.76	11.95	165.97	107.88	101.39	103.01	-1.62	3657.4	72.2	368.5	2.43	77.9	368.8	3.9	1.95	1.77	56.9	82.59	20.42	60.6		
07/25/82	124.73	10.78	149.61	97.24	101.47	103.25	-1.78	3749.0	91.7	393.4	2.86	92.6	457.6	4.6	1.40	1.27	41.2	82.73	20.52	61.5		
08/01/82	125.04	10.45	145.02	94.26	101.74	103.28	-1.54	3763.5	14.5	394.2	0.74	24.3	118.4	1.2	1.43	1.30	42.7	82.85	20.43	62.6		
08/08/82	125.20	14.41	200.06	130.04	102.04	103.46	-1.44	3839.9	76.4	398.2	1.47	48.3	235.2	2.4	1.40	1.27	41.8	82.91	20.57	62.4		
08/15/82	125.54	17.00	236.03	153.42	102.73	103.61	-0.88	3893.7	53.8	401.0	0.12	4.0	19.2	0.2	1.43	1.22	40.3	83.24	20.37	63.5		
08/22/82	125.58	24.01	333.38	216.70	103.09	104.06	-0.97	3975.2	181.5	410.4	1.72	57.5	275.2	2.8	1.13	0.96	32.1	83.43	20.63	63.3		
08/29/82	125.48	24.99	346.93	225.50	103.39	104.60	-1.22	4300.6	225.4	421.8	2.87	98.2	459.2	4.8	1.28	1.09	37.2	83.53	21.07	65.6		
09/05/82	125.34	22.81	313.93	204.05	103.56	104.84	-1.28	4403.7	103.1	428.8	0.47	16.5	75.2	0.8	1.65	1.40	49.3	83.47	21.37	68.9		
09/12/82	125.48	19.82	272.44	177.09	103.85	105.34	-1.49	4620.6	216.9	437.4	3.85	129.8	594.0	5.8	0.93	0.71	25.1	83.63	21.71	70.7		
09/19/82	125.34	22.81	313.93	204.05	103.98	105.62	-1.66	4740.7	120.0	443.1	0.79	28.8	126.4	1.3	1.46	1.11	40.4	83.75	21.87	73.6		
09/26/82	125.32	19.82	272.44	177.09	104.12	105.97	-1.85	4886.5	157.8	450.5	2.09	77.2	334.4	3.3	0.88	0.67	24.7	83.96	21.96	75.1		
10/03/82	125.32	19.23	266.94	173.51	104.27	106.15	-1.88	4980.6	62.4	454.3	0.45	16.9	72.0	0.7	1.12	0.85	32.0	84.11	22.04	78.8		
10/10/82	125.26	19.23	266.94	173.51	104.42	106.33	-1.91	5062.9	82.1	458.0	0.51	19.3	81.8	0.8	1.18	0.90	33.9	84.05	22.28	77.6		
10/17/82	125.14	18.08	251.04	163.18	104.47	106.45	-1.98	5115.8	52.9	460.5	0.00	0.0	0.0	0.0	1.15	0.82	31.2	84.00	22.45	79.1		
10/24/82	125.02	15.98	221.87	144.22	104.58	106.60	-2.04	5186.9	71.1	463.7	0.70	26.9	112.0	1.1	0.77	0.55	21.0	83.96	22.64	80.1		
10/31/82	124.86	14.11	195.96	127.37	104.56	106.85	-2.08	5207.4	20.5	464.8	0.00	0.0	0.0	0.0	0.93	0.66	25.5	83.91	22.74	81.4		
11/07/82	125.08	11.95	165.97	107.88	104.88	106.78	-1.90	5269.5	62.1	467.4	1.51	58.5	241.6	2.4	0.90	0.64	24.7	83.94	22.84	81.9		
11/14/82	125.02	15.02	208.53	135.54	104.92	106.84	-1.92	5298.9	29.4	468.7	0.14	5.5	22.4	0.2	0.90	0.75	29.1	83.96	22.88	82.6		
11/21/82	124.92	14.11	195.96	127.37	104.94	106.89	-1.95	5321.4	22.5	469.7	0.00	0.0	0.0	0.0	0.87	0.56	21.7	83.85	23.04	83.1		
11/28/82	124.88	12.72	176.64	114.82	104.94	106.90	-1.96	5327.9	6.8	470.0	0.00	0.0	0.0	0.0	0.75	0.62	24.4	83.89	23.01	83.9		
12/05/82	124.82	12.20	169.46	110.15	104.94	106.89	-1.95	5324.0	-3.9	469.8	0.00	0.0	0.0	0.0	0.93	0.77	30.2	83.76	23.13	83.9		
12/12/82	124.84	11.47	159.22	103.49	105.04	106.97	-1.93	5361.3	37.3	471.5	0.88	34.5	140.8	1.4	0.59	0.45	17.8	84.03	22.94	84.3		
12/19/82	124.74	11.71	162.56	105.66	104.90	107.03	-2.13	5365.5	24.2	472.6	0.54	21.2	88.4	0.9	0.65	0.50	19.7	83.76	23.27	83.9		
12/26/82	124.72	10.55	148.53	95.25	104.83	107.00	-2.17	5374.3	-11.2	472.1	0.00	0.0	0.0	0.0	0.70	0.54	21.2	83.82	23.38	85.2		
01/02/83	124.78	10.34	143.52	93.29	104.94	107.00	-2.08	5372.0	-2.3	472.0	0.08	3.1	12.8	0.1	0.44	0.34	13.3	83.86	23.34	85.6		
01/09/83	124.78	10.78	149.61	97.24	104.91	107.05	-2.14	5369.3	27.3	473.2	0.74	29.1	118.4	1.2	0.49	0.38	14.8	83.82	23.43	85.4		
01/16/83	124.66	11.00	152.74	98.28	104.83	107.05	-2.22	5366.0	-3.3	473.0	0.00	0.0	0.0	0.0	0.61	0.42	16.6	83.44	23.61	86.0		
01/23/83	124.66	9.71	134.67	87.66	104.91	107.12	-2.21	5429.6	33.6	474.5	1.13	44.5	180.8	1.8	0.51	0.35	13.9	83.56	23.56	86.6		
01/30/83	124.68	9.71	134.67	87.66	104.86	107.17	-2.21	5453.2	23.6	475.5	0.98	38.8	156.8	1.6	0.65	0.45	17.7	83.54	23.63	86.7		
02/06/83	124.74	9.82	137.69	89.50	105.06	107.27	-2.21	5500.6	47.6	477.6	1.90	75.3	304.0	3.0	1.21	0.83	33.1	83.74	23.53	87.1		
02/13/83	124.88	10.55	148.53	95.25	105.23	107.43	-2.20	5579.3	78.5	481.1	2.12	84.4	336.2	3.4	0.60	0.44	17.4	83.88	23.55	87.1		
02/20/83	124.84	12.20	169.46	110.15	105.27	107.50	-2.23	5611.3	32.0	482.5	0.80	32.1	128.0	1.3	0.81	0.59	23.7	83.81	23.69	87.8		
02/27/83	124.74	11.71	162.56	106.66	105.27	107.50	-2.23	5613.0	1.8	482.5	0.26	11.3	44.8	0.4	0.92	0.67	27.0	83.96	23.54	88.6		
03/06/83	124.86	10.55	148.53	95.25	105.44	107.49	-2.05	5606.5	-6.5	482.3	0.36	14.5	57.6	0.6	0.98	0.72	28.8	84.04	23.45	88.1		
03/13/83	124.84	11.95	165.97	107.88	105.36	107.71	-2.33	5714.4	108.0	486.9	2.98	119.8	476.8	4.8	1.09	0.92	36.6	84.19	23.52	87.7		
03/20/83	125.32	11.71	162.56	105.66	105.96	107.85	-1.89	5784.2	69.8	489.9	2.20	89.3	352.0	3.5	1.17	0.98	39.9	84.70	23.15	88.6		
03/27/83	125.30	19.23	266.94	173.51	106.22	108.07	-1.85	5892.6	106.4	494.5	1.54	62.9	246.4	2.5	1.24	1.04	42.5	84.86	23.21	87.9		
04/03/83	125.18	18.84	261.54	170.00	106.37	108.17	-1.80	5939.5	46.9	498.5	0.31	12.8	49.8	0.5	1.37	1.15	47.4	84.98	23.19	88.0		
04/10/83	125.20	16.85	231.22	150.29	106.60	108.39	-1.79	6050.4	110.9	501.2	2.10	86.9	336.0	3.4	1.19	0.96	40.4	85.10	23.29	89.3		
04/17/83	125.12	17.00	236.03	153.42	106.75	108.52	-1.77	6114.0	63.6	503.8	1.31	54.7	209.6	2.1	1.64	1.34	58.2	85.18	23.34	90.5		
04/24/83	125.22	15.85	217.34	141.27	107.14	108.84	-1.69	6275.1	161.1	510.5	3.85	161.6	616.0	6.2	1.65	1.35	56.8	85.00	23.24	91.1		
05/01/83	125.14	17.35	240.94	156.61	107.21	108.95	-1.64	6282.5	7.5	510.8	0.00	0.0	0.0	0.0	1.64	1.34	57.2	85.77	23.08	91.9		
05/08/83	125.06	15.98	221.87	144.22	107.33	108.92	-1.59	6320.9	38.4	512.3	1.00	42.6	160.0	1.6	1.68	1.38	58.6	85.71	23.21	91.4		
05/15/83	124.96	14.71	204.25	132.76	107.36	108.89	-1.51	6303.7	-17.2	511.6	0.04	1.7	6.4	0.1	1.64	1.39	59.5	85.71	23.18	92.2		
05/22/83	124.88	13.26	184.13	119.69	107.41	109.06	-1.65	6392.3	88.6	515.2	2.81	119.8	449.6	4.5	1.75	1.49	63.4	85.42	23.64	91.9		
05/29/83	124.76	12.20	169.46	110.15	107.25	108.98	-1.73	6350.3	-42.1	513.5	0.26	11.2	41.8	0.4	1.60	1.62	69.3	85.33	23.65	94.4		
06/05/83	124.80	10.78	149.61	97.24	107.24	108.99	-1.75	6353.9	3.6	513.7	1.11	47.5	177.6	1.8	1.34	1.14	46.7	85.63	23.36	94.2		
06/12/83	124.96	11.23	155.95	101.37	107.44	108.19	-1.75	6456.7	102.8	517.9	3.94	151.5	566.4	5.7	1.61	1.47	62.7	85.36	23.83	93.0		
06/19/83	124.84	13.26	184.13	119.69	107.36	108.12	-1.74	6423.7	-33.1	518.5	0.26	11.2	41.6	0.4	1.75	1.59	68.7	85.56	23.56	95.7		
06/26/83	125.36	11.71	162.56	105.66	107.76	108.43	-1.67	6579.9	156.3	522.8	4.23	182.1	676.8	6.8	1.12	1.02	43.9	85.56	23.87	94.4		
07/03/83	125.62	20.03	278.04	180.73	108.27	108.57	-1.30	6657.6	77.8	525.9	1.07	46.6	171.2	1.7	1.38	1.28	54.7	85.85	23.72	98.7		
07/10/83	125.58	26.00	360.96	234.62	108.46	108.83	-1.35	6794.3	136.8	531.3	1.52	66.6	243.2	2.4	1.78	1.60	70.2	85.67	24.16	96.7		
07/17/83	125.44	24.99	346.93	225.50	108.60	110.01	-1.41	6899.2	94.8	535.1	0.77	34.1	123.2	1.2	1.65	1.50	66.					

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -378966 C2 = 91939.34 C3 = -742.7 C4 = 2				Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area Precip. ac-feet						Overland Runoff Volume ac-feet	Floridan Aquifer Elevation elev				Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet	
	Magnolia Elevation ft	Magnolia Discharge cfs																			Magnolia Discharge ac-feet
10/02/83	125.26	20.86	289.57	188.22	109.74	111.33	-1.59	7613.7	33.8	562.7	0.00	0.0	0.0	0.0	1.24	0.94	44.1	85.87	25.46	110.4	
10/09/83	125.22	18.08	251.04	163.18	109.84	111.37	-1.53	7637.0	23.3	563.6	0.31	14.5	49.6	0.5	1.23	0.93	43.8	85.82	25.55	111.1	
10/16/83	125.24	17.35	240.94	156.61	109.89	111.43	-1.54	7672.9	35.9	564.9	0.65	30.5	104.0	1.0	1.22	0.87	40.7	85.87	25.56	111.6	
10/23/83	125.18	17.71	245.94	159.88	109.93	111.50	-1.57	7711.5	38.6	566.3	0.40	18.8	64.0	0.6	0.86	0.61	26.7	85.95	25.56	112.0	
10/30/83	125.12	16.31	226.50	147.23	109.88	111.51	-1.63	7713.4	1.9	566.4	0.00	0.0	0.0	0.0	0.99	0.70	33.2	85.96	25.85	112.2	
11/06/83	125.14	15.65	217.34	141.27	109.92	111.54	-1.62	7732.4	19.0	567.1	0.37	17.5	59.2	0.6	0.80	0.57	26.8	85.77	25.77	113.5	
11/13/83	125.12	15.98	221.87	144.22	109.82	111.61	-1.79	7773.6	41.2	568.6	0.86	31.2	105.6	1.1	0.56	0.46	22.0	85.69	25.92	113.3	
11/20/83	125.28	15.65	217.34	141.27	110.02	111.68	-1.84	7912.6	136.0	573.7	2.80	132.7	448.0	4.5	0.64	0.53	25.2	85.82	26.04	114.3	
11/27/83	125.32	16.46	256.24	166.56	110.12	111.83	-1.81	7956.3	43.7	575.3	0.46	22.0	73.8	0.7	0.75	0.62	29.8	85.85	26.28	115.8	
12/04/83	125.28	19.23	268.94	173.51	110.20	112.04	-1.84	8016.4	60.1	577.5	0.47	22.5	75.2	0.8	0.49	0.41	19.5	85.72	26.32	117.2	
12/11/83	125.32	18.46	256.24	166.56	110.35	112.12	-1.77	8083.0	48.6	579.2	0.33	15.9	52.8	0.5	0.50	0.39	18.5	85.78	26.34	117.8	
12/18/83	125.22	19.23	268.94	173.51	110.36	112.33	-1.97	8188.2	125.2	583.7	1.73	83.5	276.8	2.8	0.44	0.34	16.4	85.74	26.50	118.3	
12/25/83	125.06	17.35	240.94	156.61	110.36	112.37	-1.99	8212.6	24.4	584.6	0.07	3.4	11.2	0.1	0.41	0.32	15.4	85.54	26.83	120.3	
01/01/84	125.32	14.71	204.25	132.78	110.62	112.66	-2.04	8379.5	166.9	590.5	3.46	188.5	553.6	5.5	0.49	0.38	18.4	85.66	27.00	121.6	
01/08/84	125.28	19.23	268.94	173.51	110.70	112.70	-2.00	8404.5	25.0	591.4	0.01	0.5	1.6	0.0	0.67	0.52	25.4	85.93	26.77	123.6	
01/15/84	125.28	16.46	256.24	166.56	110.72	112.80	-2.08	8461.1	56.5	593.4	0.43	21.2	68.8	0.7	0.27	0.19	9.2	86.11	26.69	122.7	
01/22/84	125.28	16.46	256.24	166.56	110.81	112.89	-2.08	8514.4	53.3	595.3	0.44	21.8	70.4	0.7	0.38	0.26	13.0	86.03	26.66	122.8	
01/29/84	125.28	16.46	256.24	166.56	110.91	112.95	-2.04	8550.6	36.3	596.5	0.31	15.4	49.6	0.5	0.65	0.45	22.2	86.33	26.62	123.9	
02/05/84	125.24	16.46	256.24	166.56	110.98	112.98	-2.00	8570.1	19.4	597.2	0.06	3.0	9.6	0.1	0.79	0.55	27.1	86.37	26.61	123.1	
02/12/84	125.16	17.71	245.94	159.88	110.94	112.98	-2.04	8572.2	2.2	597.3	0.00	0.0	0.0	0.0	0.95	0.69	34.5	86.26	26.72	123.2	
02/19/84	125.16	16.31	226.50	147.23	110.94	113.02	-2.08	8595.3	23.1	598.1	0.80	29.9	96.0	1.0	0.86	0.63	31.2	86.17	26.65	123.7	
02/26/84	125.34	16.31	226.50	147.23	111.36	113.24	-1.88	8726.7	131.4	602.7	2.89	144.0	462.4	4.6	1.10	0.80	40.0	86.42	26.82	124.5	
03/04/84	125.34	19.62	272.44	177.09	111.36	113.38	-2.00	8796.4	69.8	605.1	1.21	60.8	193.6	1.9	1.22	0.89	44.7	86.43	26.93	125.3	
03/11/84	125.42	19.62	272.44	177.09	111.55	113.45	-1.90	8851.3	54.8	607.0	0.99	49.9	158.4	1.6	1.12	0.94	47.4	86.44	27.01	126.3	
03/18/84	125.36	21.28	295.50	192.07	111.65	113.49	-1.84	8879.6	26.3	608.0	0.25	12.6	40.0	0.4	1.17	0.98	49.7	86.56	26.93	127.1	
03/25/84	125.28	20.03	278.04	180.73	111.66	113.52	-1.86	8895.5	15.9	608.5	0.31	15.7	48.6	0.5	1.27	1.07	54.0	86.62	26.90	128.9	
04/01/84	125.36	18.46	256.24	166.56	111.87	113.64	-1.77	8972.0	76.5	611.2	1.89	85.7	270.4	2.7	1.21	1.02	51.5	86.55	27.09	128.9	
04/08/84	125.34	20.03	278.04	180.73	112.21	113.66	-1.65	9102.8	130.8	615.6	2.63	133.9	420.8	4.2	1.43	1.17	59.7	86.97	26.99	128.4	
04/15/84	125.24	19.62	272.44	177.09	112.23	113.90	-1.67	9127.5	24.7	616.5	0.34	17.4	54.4	0.5	1.00	0.82	42.1	87.22	26.66	128.3	
04/22/84	125.16	17.71	245.94	159.88	112.23	113.86	-1.63	9106.4	-21.1	615.7	0.04	2.1	6.4	0.1	1.32	1.08	55.6	87.09	26.77	127.5	
04/29/84	125.14	16.31	226.50	147.23	112.21	113.81	-1.60	9076.8	-29.6	614.7	0.25	12.8	40.0	0.4	1.48	1.21	62.3	86.95	26.86	127.8	
05/06/84	125.08	15.98	221.87	144.22	112.19	113.74	-1.55	9032.4	-44.4	613.2	0.26	13.3	41.6	0.4	1.77	1.45	74.4	86.96	26.78	128.0	
05/13/84	124.98	15.02	208.53	135.54	112.07	113.63	-1.56	8982.8	-89.5	610.8	0.00	0.0	0.0	0.0	1.79	1.32	77.8	86.56	27.05	127.3	
05/20/84	124.78	13.54	187.89	122.20	111.86	113.46	-1.60	8861.3	-101.5	607.3	0.00	0.0	0.0	0.0	2.21	1.88	95.6	86.33	27.13	126.1	
05/27/84	124.98	11.00	152.74	99.28	111.93	113.64	-1.71	8972.5	111.2	611.2	3.82	183.3	611.2	6.1	1.39	1.18	59.8	86.40	27.24	127.7	
06/03/84	124.86	13.54	187.89	122.20	111.74	113.75	-2.01	9036.2	65.7	613.4	2.84	144.6	454.4	4.5	1.77	1.50	76.6	86.25	27.50	129.1	
06/10/84	124.74	11.95	165.97	107.88	111.61	113.56	-1.95	8919.9	-118.3	609.4	0.00	0.0	0.0	0.0	2.05	1.67	95.4	86.95	27.61	130.8	
06/17/84	124.70	10.55	146.53	95.25	111.56	113.39	-1.83	8816.1	-103.6	605.6	0.04	2.0	6.4	0.1	1.53	1.39	70.7	86.82	27.57	130.4	
06/24/84	124.60	10.12	140.56	91.38	111.49	113.30	-1.81	8765.1	-51.0	604.0	1.11	56.0	177.6	1.8	1.54	1.40	70.7	85.87	27.43	129.5	
07/01/84	124.78	11.23	155.95	101.37	111.46	113.32	-1.86	8775.9	10.8	604.4	1.85	93.1	298.0	3.0	1.27	1.16	59.2	85.77	27.55	128.5	
07/08/84	124.96	10.78	149.61	97.24	111.59	113.21	-1.62	8711.7	-64.3	602.2	0.84	42.3	134.4	1.3	1.06	1.51	71.2	85.71	27.50	129.1	
07/15/84	124.90	13.26	184.13	119.69	111.56	113.20	-1.64	8704.2	-7.5	601.9	1.40	70.3	224.0	2.2	1.56	1.42	71.2	85.69	27.51	128.4	
07/22/84	125.02	12.46	173.01	112.46	111.64	113.24	-1.60	8729.3	25.1	602.8	1.78	89.3	294.8	2.8	1.12	1.02	51.1	85.76	27.46	128.4	
07/29/84	124.98	14.11	195.96	127.37	111.65	113.21	-1.56	8709.1	-20.1	602.1	0.89	34.7	110.4	1.1	1.20	1.09	54.9	85.75	27.46	128.4	
08/05/84	125.16	13.54	187.89	122.20	111.60	113.25	-1.65	8733.6	24.5	602.9	1.82	98.3	307.2	3.1	1.51	1.37	69.9	85.66	27.59	128.2	
08/12/84	125.12	16.31	226.50	147.23	111.53	113.18	-1.63	8679.3	-54.3	601.0	0.00	0.0	0.0	0.0	1.70	1.45	72.6	85.53	27.63	129.0	
08/19/84	124.92	15.65	217.34	141.27	111.63	113.22	-1.59	8714.4	36.1	602.3	1.59	79.8	254.4	2.5	1.40	1.19	59.6	85.52	27.70	128.7	
08/26/84	124.92	12.72	176.84	114.82	111.70	113.22	-1.52	8712.7	-1.7	602.2	1.17	58.7	187.2	1.9	1.12	0.95	47.8	85.56	27.66	129.3	
08/02/84	124.94	12.72	176.84	114.82	111.61	113.11	-1.50	8646.1	-66.6	599.9	0.30	15.1	48.0	0.5	1.59	1.35	67.8	85.38	27.73	129.1	
08/09/84	124.82	12.99	180.35	117.23	111.34	113.01	-1.67	8568.7	-57.4	597.9	0.02	1.0	3.2	0.0	1.23	0.93	46.7	85.39	27.62	128.9	
08/16/84	124.74	11.47	159.22	103.49	111.21	112.88	-1.67	8511.2	-77.5	595.2	0.00	0.0	0.0	0.0	1.40	1.06	53.0	85.39	27.49	128.0	
08/23/84	124.66	10.55	146.53	95.25	111.04	112.75	-1.71	8432.4	-78.6	592.4	0.05	2.5	8.0	0.1	1.32	1.00	49.8	85.15	27.60	128.6	
08/30/84	124.56	9.71	134.67	87.66	110.99	112.78	-1.79	8452.1	19.7	593.1	2.09	100.2	324.8	3.2	1.19	0.90	44.6	85.11	27.67	128.7	
10/07/84	124.68	8.76	121.59	79.03	110.81	112.62	-1.81	8367.9	-94.3	599.7	0.01	0.5	1.6	0.0	1.24	0.94	46.6	85.14	27.46	127.2	

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -379366 C2 = 91936.34 C3 = -742.7 C4 = 2				Effective Discharge = 65%	Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Magnoia Elevation ft	Magnoia Discharge cfs	Magnoia Discharge ac-feet	Effective Discharge ac-feet					Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Florida Aquifer Elevation elev	Florida Aquifer Elevation ft				Brooklyn Leakage ac-feet		
01/08/85	124.58	8.94	124.14	80.69	109.30	111.56	-2.28	7744.2	-36.6	567.5	0.54	25.6	86.4	0.9	0.65	0.50	23.7	84.29	27.27	120.0					
01/13/85	124.48	8.94	124.14	80.69	109.13	111.46	-2.33	7685.7	-58.5	565.4	0.00	0.0	0.0	0.0	0.59	0.41	19.3	84.06	27.40	120.0					
01/20/85	124.32	8.06	111.91	72.74	108.06	111.36	-2.40	7630.5	-55.2	563.3	0.24	11.3	36.4	0.4	0.60	0.41	19.5	84.15	27.21	120.1					
01/27/85	124.28	6.82	94.68	61.54	108.78	111.23	-2.47	7558.3	-72.2	560.6	0.22	10.3	35.2	0.4	0.79	0.55	25.6	83.79	27.44	118.8					
02/03/85	124.28	6.54	90.76	59.00	108.70	111.11	-2.41	7491.4	-66.9	558.1	0.35	16.4	56.0	0.6	0.73	0.50	23.5	83.90	27.21	119.3					
02/10/85	124.36	6.54	90.76	59.00	108.58	111.10	-2.54	7484.9	-6.5	557.9	1.53	71.2	244.8	2.4	0.63	0.48	21.4	83.66	27.44	117.7					
02/17/85	124.34	7.11	96.75	64.19	108.41	110.97	-2.56	7412.8	-72.1	555.2	0.29	13.5	46.4	0.5	0.93	0.68	31.6	83.62	27.35	118.7					
02/24/85	124.30	6.96	96.70	62.85	108.34	110.81	-2.47	7322.2	-90.7	551.7	0.00	0.0	0.0	0.0	1.06	0.77	35.8	83.53	27.28	117.7					
03/03/85	124.30	6.88	92.71	60.26	108.15	110.64	-2.49	7230.3	-91.6	548.2	0.06	2.8	9.6	0.1	1.14	0.83	36.3	83.46	27.18	116.7					
03/10/85	124.20	6.88	92.71	60.26	107.94	110.44	-2.50	7119.8	-110.5	544.0	0.00	0.0	0.0	0.0	1.44	1.21	56.3	83.14	27.30	115.5					
03/17/85	124.20	6.00	83.31	54.15	107.78	110.34	-2.56	7065.9	-54.0	541.9	1.05	47.6	168.0	1.7	1.11	0.93	42.3	83.22	27.12	115.1					
03/24/85	124.20	6.00	83.31	54.15	107.64	110.18	-2.52	6972.0	-93.9	538.3	0.26	11.7	41.6	0.4	1.22	1.02	46.3	82.94	27.22	113.9					
03/31/85	124.10	6.00	83.31	54.15	107.44	109.94	-2.50	6851.8	-120.1	533.6	0.00	0.0	0.0	0.0	1.61	1.35	60.7	82.70	27.24	113.6					
04/07/85	124.00	5.37	74.60	46.49	107.24	109.76	-2.52	6757.6	-94.3	529.9	0.55	24.5	86.0	0.9	1.52	1.25	55.4	82.65	27.11	112.7					
04/14/85	124.06	4.78	66.42	43.17	107.11	109.68	-2.57	6621.8	-64.2	532.4	4.01	177.1	641.6	6.4	1.41	1.16	51.1	82.76	27.12	111.4					
04/21/85	124.06	5.13	71.28	46.33	106.99	109.60	-2.67	6704.4	-117.4	527.8	0.14	6.2	22.4	0.2	1.60	1.31	56.2	82.64	27.02	112.0					
04/28/85	124.00	5.13	71.28	46.33	106.81	109.46	-2.59	6567.3	-137.1	522.3	0.00	0.0	0.0	0.0	2.02	1.66	72.9	82.37	27.03	110.6					
05/05/85	123.82	4.78	66.42	43.17	106.58	109.23	-2.67	6476.1	-91.2	518.6	0.84	36.6	134.4	1.3	1.76	1.44	62.8	82.37	26.86	109.5					
05/12/85	123.82	3.78	52.50	34.13	106.31	108.96	-2.65	6337.6	-136.5	513.0	0.00	0.0	0.0	0.0	1.78	1.50	64.7	81.96	27.00	108.0					
05/19/85	123.76	3.78	52.50	34.13	106.14	108.67	-2.53	6189.2	-148.4	506.9	0.14	6.0	22.4	0.2	2.24	1.90	81.4	81.68	26.99	107.4					
05/26/85	123.76	3.45	47.95	31.17	105.91	108.61	-2.70	6159.1	-30.1	505.7	2.39	101.0	362.4	3.8	1.67	1.42	60.0	81.59	27.02	106.1					
06/02/85	123.80	3.45	47.95	31.17	105.61	108.32	-2.71	6014.3	-144.6	499.6	0.06	2.5	9.6	0.1	2.03	1.73	72.7	81.28	27.06	105.9					
06/09/85	123.46	2.57	35.65	23.18	105.36	107.99	-2.63	5853.2	-161.1	492.8	0.16	6.7	25.6	0.3	2.28	2.07	86.4	81.01	26.96	104.8					
06/16/85	123.62	1.75	24.28	15.78	105.45	107.93	-2.48	5822.1	-31.1	491.5	2.85	117.1	456.0	4.6	1.75	1.59	85.4	81.19	26.74	103.1					
06/23/85	123.50	2.68	37.22	24.19	105.21	107.67	-2.46	5694.5	-127.6	486.1	0.22	9.0	35.2	0.4	1.59	1.45	59.3	80.96	26.71	101.9					
06/30/85	123.56	1.99	27.62	17.95	105.22	107.67	-2.45	5603.6	-0.9	486.0	3.23	130.8	516.8	5.2	1.47	1.34	54.2	81.03	26.64	100.6					
07/07/85	123.68	2.45	34.08	22.15	104.93	107.44	-2.51	5562.2	-111.4	481.2	0.49	19.8	78.4	0.8	1.46	1.33	53.8	80.85	26.59	100.4					
07/14/85	123.62	3.01	41.86	27.21	104.85	107.19	-2.34	5465.2	-117.0	476.1	0.25	10.0	40.0	0.4	1.52	1.36	55.5	80.62	26.37	99.2					
07/21/85	123.94	2.68	37.22	24.19	104.92	107.00	-2.08	5375.1	-90.0	472.1	0.78	30.9	124.8	1.2	1.36	1.24	49.1	80.92	26.08	97.3					
07/28/85	124.20	4.44	61.70	40.10	104.99	106.79	-1.80	5273.4	-101.7	467.6	0.04	1.6	6.4	0.1	1.34	1.22	48.0	81.05	25.74	95.5					
08/04/85	124.32	6.00	83.31	54.15	104.90	107.00	-2.10	5371.7	-96.3	471.9	4.46	174.6	716.8	7.2	1.25	1.14	44.3	81.20	25.80	93.3					
08/11/85	124.66	6.82	94.68	61.54	105.24	106.95	-1.71	5350.9	-20.9	471.0	1.33	52.3	212.8	2.1	1.27	1.08	42.5	81.51	25.44	94.4					
08/18/85	124.76	9.71	134.67	87.66	105.41	107.14	-1.73	5437.9	-67.0	474.9	3.41	133.8	545.6	5.5	1.41	1.20	47.0	81.75	25.36	92.9					
08/25/85	125.04	10.78	149.61	97.24	105.64	107.36	-1.52	5543.6	-105.7	479.5	3.44	136.1	550.4	5.5	1.18	1.00	39.7	82.17	25.19	93.5					
09/01/85	125.00	14.41	200.06	130.04	106.34	107.78	-1.44	5746.5	-202.9	488.3	5.15	205.8	824.0	8.2	1.40	1.19	47.6	82.80	24.98	93.6					
09/08/85	125.30	13.82	191.94	124.76	106.64	107.85	-1.21	5781.0	-34.5	489.8	0.89	36.2	142.4	1.4	1.08	0.82	33.6	83.23	24.62	94.5					
09/15/85	125.36	18.84	261.54	170.00	107.01	107.95	-0.94	5830.5	-49.6	491.9	0.41	16.7	65.6	0.7	1.43	1.09	44.4	83.47	24.48	93.5					
09/22/85	125.30	20.03	278.04	180.73	107.35	108.16	-0.82	5941.9	-111.4	496.6	1.42	56.2	227.2	2.3	1.17	0.99	36.4	83.57	24.60	93.3					
09/29/85	125.22	18.84	261.54	170.00	107.45	108.24	-0.79	5975.7	-33.8	496.0	0.00	0.0	0.0	0.0	1.32	1.00	41.5	83.42	24.62	94.7					
10/06/85	125.25	17.35	240.94	156.61	107.56	108.31	-0.75	6011.1	-35.4	499.5	0.28	10.8	41.8	0.4	1.16	0.98	36.6	83.59	24.72	95.8					
10/13/85	125.34	17.90	248.48	161.51	107.76	108.44	-0.68	6073.8	-62.7	502.1	0.64	26.6	102.4	1.0	1.04	0.74	30.7	83.68	24.76	95.7					
10/20/85	125.36	19.62	272.44	177.09	107.88	108.54	-0.66	6123.7	-49.9	504.2	0.03	1.3	4.8	0.0	1.08	0.77	32.1	83.60	24.94	96.4					
10/27/85	125.37	20.44	283.75	184.44	108.09	108.69	-0.61	6200.6	-78.9	507.4	0.50	21.0	80.0	0.8	1.07	0.76	31.9	83.71	24.98	97.5					
11/03/85	125.42	20.23	280.89	182.56	108.23	108.25	-1.01	6498.1	-285.5	519.0	5.29	223.7	848.4	8.5	1.03	0.73	30.9	83.64	25.41	98.3					
11/10/85	125.32	21.28	295.50	182.07	108.35	109.35	-1.07	6541.8	-55.7	521.3	0.07	3.0	11.2	0.1	1.04	0.86	37.3	83.71	25.64	102.2					
11/17/85	125.30	19.23	266.94	173.51	108.36	109.44	-1.06	6566.1	-44.3	523.1	0.06	3.5	12.8	0.1	0.81	0.67	29.2	83.67	25.77	103.6					
11/24/85	125.28	18.84	261.54	170.00	108.47	109.59	-1.12	6664.5	-78.4	526.2	0.79	34.4	128.4	1.3	0.63	0.52	22.8	83.78	25.81	104.5					
12/01/85	125.18	18.46	254.24	166.56	108.56	109.66	-1.10	6703.9	-39.5	527.6	0.00	0.0	0.0	0.0	0.60	0.50	21.8	83.81	25.85	105.3					
12/08/85	125.00	16.65	231.22	150.29	108.42	109.71	-1.29	6729.9	-25.9	526.6	0.06	2.6	9.6	0.1	0.63	0.49	21.3	83.63	26.08	105.8					
12/15/85	125.02	13.82	191.94	124.76	108.45	109.76	-1.31	6755.6	-25.7	529.8	0.73	32.2	116.8	1.2	0.75	0.58	25.4	83.53	26.23	106.9					
12/22/85	124.92	14.11	195.96	127.37	108.42	109.76	-1.34	6758.6	-3.0	529.9	0.00	0.0	0.0	0.0	0.49	0.36	16.7	83.64	26.12	107.7					
12/29/85	124.88	12.72	176.64	114.82	108.36	109.76	-1.40	6755.4	-3.2	529.6	0.13	5.7	20.8	0.2	0.49	0.36	16.7	83.56	26.20	107.3					
01/05/86	124.96	12.20	169.46	110.15	108.60	109.93	-1.33	6845.2	-89.9	533.3	2.54	112.1	406.4	4.1	0.65	0.65	28.9	83.60	26.33	107.6					
01/12/86	125.10	13.26	184.13	119.69	108.63	110.18	-1.36	6978.4	-133.2	536.5	3.07	136.4	491.2	4.9	0.62	0.43	19.0	83.78	26.42	108.9					
01/19/86	124.94	15.33	212.69	136.36	110.23	110.23	-1.36	7005.7	-27.3	539.6	0.35	15.7	56.0	0.6	0.55	0.36	17.0	84.14	26.09	1					

BROOKLYN LAKE LONG - TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -379366 C2 = 91939.34 C3 = -742.7 C4 = 2						Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903						Drainage area = 1920 Runoff Coeff. = 0.01						Leakance = 1.107E-03 1/day		
	Effective Discharge = 65%		Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet	
	Magnolia Elevation ft	Magnolia Discharge cfs																			Magnolia Discharge ac-feet
04/06/86	125.02	16.15	224.18	145.71	110.25	110.88	-0.81	7349.3	-34.6	552.8	0.00	0.0	0.0	1.82	1.49	68.9	84.71	26.15	111.4		
04/13/86	124.86	14.11	195.96	127.37	110.03	110.79	-0.76	7311.5	-37.8	551.3	0.39	18.0	62.4	0.6	1.90	1.56	71.8	84.82	25.97	112.0	
04/20/86	124.80	11.95	165.97	107.88	110.11	110.68	-0.57	7250.8	-60.7	549.0	0.00	0.0	0.0	0.0	1.53	1.25	57.6	84.42	26.26	111.0	
04/27/86	124.76	11.23	155.95	101.37	109.91	110.55	-0.64	7180.1	-70.7	546.3	0.24	11.0	38.4	0.4	1.91	1.57	71.7	84.24	26.31	111.8	
05/04/86	124.69	10.78	149.61	97.24	109.70	110.37	-0.67	7083.8	-86.3	542.6	0.00	0.0	0.0	0.0	2.20	1.80	82.1	84.00	26.37	111.4	
05/11/86	124.59	10.02	139.13	90.43	109.52	110.21	-0.69	6995.2	-88.5	539.2	0.00	0.0	0.0	0.0	1.77	1.50	69.0	83.84	26.37	110.9	
05/18/86	124.47	9.03	125.43	81.53	109.43	110.03	-0.60	6898.2	-97.0	535.4	0.00	0.0	0.0	0.0	1.79	1.52	68.4	83.56	26.47	110.2	
05/25/86	124.50	7.98	110.75	71.99	109.27	109.82	-0.65	6841.1	-57.0	533.2	0.98	43.7	158.8	1.6	1.70	1.45	64.5	83.52	26.40	109.9	
06/01/86	124.40	8.23	114.25	74.27	109.08	109.72	-0.64	6736.9	-104.3	529.1	0.19	8.4	30.4	0.3	2.07	1.78	78.2	83.39	26.33	109.1	
06/08/86	124.34	7.42	102.97	66.93	108.82	109.54	-0.72	6642.4	-94.5	525.3	0.42	18.5	67.2	0.7	1.61	1.65	72.6	83.20	26.34	109.0	
06/15/86	124.36	6.96	96.70	62.85	108.70	109.63	-0.93	6586.3	-47.0	527.2	3.41	149.3	545.6	5.5	1.59	1.45	63.3	83.26	26.37	107.3	
06/22/86	125.20	7.26	100.84	65.54	109.35	109.56	-0.21	6525.6	-36.5	525.7	1.47	64.6	235.2	2.4	1.53	1.39	61.2	83.71	25.65	107.8	
06/29/86	125.10	17.00	236.03	153.42	109.31	109.53	-0.22	6536.7	-16.1	525.1	0.00	0.0	0.0	0.0	1.61	1.47	64.2	83.52	26.01	105.4	
07/06/86	125.08	15.33	212.89	136.38	109.28	109.57	-0.29	6553.3	16.6	525.7	1.09	47.7	174.4	1.7	1.84	1.49	65.3	83.48	26.09	105.9	
07/13/86	125.10	15.02	208.53	135.54	109.26	109.64	-0.38	6591.1	37.7	527.2	1.46	64.0	233.6	2.3	1.45	1.32	57.8	83.46	26.18	106.3	
07/20/86	124.94	15.33	212.89	136.38	109.09	109.54	-0.45	6640.5	-50.6	525.2	0.00	0.0	0.0	0.0	2.05	1.87	82.0	83.17	26.37	107.0	
07/27/86	124.89	12.99	180.35	117.23	108.99	109.79	-0.80	6772.2	131.7	530.5	4.10	179.5	656.0	6.6	1.61	1.47	64.1	83.25	26.54	107.4	
08/03/86	124.80	12.33	171.22	111.30	108.96	109.75	-0.79	6751.1	-21.1	529.6	0.74	32.7	118.4	1.2	1.42	1.29	57.1	83.10	26.65	109.1	
08/10/86	124.92	11.23	155.95	101.37	108.97	109.74	-0.77	6744.0	-7.1	529.3	1.12	49.4	179.2	1.8	1.34	1.14	50.3	83.10	26.64	109.4	
08/17/86	124.96	12.72	176.64	114.62	108.99	109.91	-0.92	6833.5	89.5	532.9	2.83	124.8	452.8	4.5	1.21	1.03	45.3	83.24	26.67	109.3	
08/24/86	124.99	13.54	187.99	122.20	109.01	110.06	-1.05	6918.1	84.6	536.2	2.93	130.1	468.8	4.7	1.65	1.40	62.3	83.16	26.90	110.2	
08/31/86	124.97	13.68	189.96	123.47	108.95	110.10	-1.15	6939.1	21.0	537.0	1.17	52.3	167.2	1.9	1.18	1.00	44.8	83.09	27.01	111.8	
09/07/86	124.90	13.40	186.05	120.94	108.83	110.14	-1.31	6958.9	17.8	537.7	1.25	55.9	200.0	2.0	1.43	1.09	48.6	83.04	27.10	112.5	
09/14/86	124.78	12.46	173.01	112.46	108.78	110.18	-1.40	6979.9	23.0	538.8	1.57	70.3	251.2	2.5	1.45	1.10	49.4	83.08	27.10	112.9	
09/21/86	124.74	11.00	152.74	99.28	108.58	110.08	-1.50	6925.7	-54.1	536.5	0.11	4.9	17.8	0.2	1.33	1.01	45.4	82.90	27.16	113.1	
09/28/86	124.62	10.55	146.53	95.25	108.42	109.98	-1.56	6871.7	-54.1	534.4	0.17	7.8	27.2	0.3	1.30	0.99	44.2	82.70	27.26	113.0	
10/05/86	124.54	9.32	129.30	84.10	108.22	109.85	-1.63	6902.1	-89.5	531.6	0.00	0.0	0.0	0.0	1.20	0.91	40.6	82.59	27.26	113.0	
10/12/86	124.56	8.56	119.09	77.41	108.09	109.96	-1.87	6961.1	59.0	534.0	2.69	119.2	430.4	4.3	0.94	0.67	29.6	82.68	27.26	112.3	
10/19/86	124.52	8.94	124.14	80.99	107.84	109.83	-1.99	6791.9	-69.2	531.2	0.00	0.0	0.0	0.0	1.17	0.83	37.0	82.54	27.29	112.9	
10/26/86	124.29	8.40	118.65	75.82	107.61	109.71	-2.10	6731.0	-80.9	528.8	0.14	6.2	22.4	0.2	0.98	0.70	30.6	82.58	27.13	112.4	
11/02/86	124.30	6.61	91.73	59.62	107.51	109.68	-2.17	6712.2	-18.8	526.1	1.06	46.7	169.6	1.7	0.50	0.36	15.6	82.53	27.15	111.2	
11/09/86	124.26	6.89	92.71	60.26	107.31	109.53	-2.22	6834.6	-77.5	525.0	0.00	0.0	0.0	0.0	0.73	0.61	26.7	82.38	27.15	111.1	
11/16/86	124.18	6.40	86.85	57.75	107.11	109.44	-2.33	6985.8	-48.9	523.0	0.71	31.1	113.6	1.1	0.78	0.65	26.3	82.39	27.05	110.5	
11/23/86	124.11	5.87	81.51	52.98	106.92	109.29	-2.37	6908.0	-77.8	519.9	0.11	4.8	17.6	0.2	0.72	0.60	26.0	82.28	27.01	109.7	
11/30/86	124.26	5.43	75.44	49.04	107.03	109.40	-2.37	6964.8	56.6	522.2	3.14	136.0	502.4	5.0	0.68	0.56	24.5	82.43	26.97	108.9	
12/07/86	124.30	6.40	86.65	57.75	106.99	109.32	-2.46	6928.0	-38.8	520.6	0.80	34.8	128.0	1.3	0.70	0.54	23.5	82.27	27.05	109.2	
12/14/86	124.47	6.68	92.71	60.26	106.86	109.29	-2.43	6906.6	-16.4	520.0	1.31	56.8	209.6	2.1	0.79	0.61	26.4	82.28	27.01	109.2	
12/21/86	124.46	7.98	110.75	71.99	106.71	109.19	-2.48	6480.0	-49.7	518.0	0.06	2.2	8.0	0.1	0.45	0.35	15.0	82.34	26.85	108.9	
12/28/86	124.44	8.06	111.91	72.74	106.64	109.20	-2.56	6461.3	1.3	518.0	1.14	49.2	162.4	1.8	0.44	0.34	14.6	82.37	26.83	107.8	
01/04/87	124.70	7.73	107.35	69.78	106.69	109.25	-2.56	6488.8	27.5	519.1	1.87	60.7	299.2	3.0	0.55	0.42	18.3	82.57	26.88	107.7	
01/11/87	124.64	10.12	140.58	91.38	106.65	109.20	-2.55	6462.6	-26.1	518.1	0.18	7.8	28.8	0.3	0.61	0.42	18.2	82.50	26.70	107.4	
01/18/87	124.70	9.51	132.10	85.87	106.59	109.16	-2.57	6442.2	-20.4	517.3	0.36	15.5	57.6	0.6	0.51	0.35	15.2	82.61	26.55	107.2	
01/25/87	124.85	10.12	140.58	91.38	106.51	109.31	-2.60	6522.0	79.9	520.5	2.47	106.5	395.2	4.0	0.52	0.36	15.5	82.70	26.61	106.5	
02/01/87	124.80	11.83	164.26	106.77	106.67	109.27	-2.60	6500.5	-21.6	519.6	0.00	0.0	0.0	0.0	0.70	0.46	20.9	82.78	26.51	107.4	
02/08/87	124.95	11.23	155.95	101.37	106.86	109.39	-2.53	6564.0	63.6	522.2	1.98	65.7	316.8	3.2	0.63	0.46	19.9	83.08	26.31	106.8	
02/15/87	125.00	13.12	182.23	118.45	106.93	109.36	-2.43	6546.1	-17.9	521.5	0.00	0.0	0.0	0.0	0.94	0.69	29.9	83.15	26.21	106.5	
02/22/87	125.24	13.62	191.94	124.78	107.25	109.63	-2.38	6694.4	143.3	527.2	3.39	147.3	542.4	5.4	0.89	0.65	28.2	83.41	26.22	106.0	
03/01/87	125.26	17.71	245.94	159.66	107.56	109.82	-2.26	6789.2	99.8	531.1	1.81	79.5	289.6	2.9	1.10	0.80	35.3	83.79	26.03	107.2	
03/08/87	125.45	18.08	251.04	163.18	108.01	109.97	-1.96	6888.8	79.6	534.3	1.35	59.8	216.0	2.2	1.03	0.87	36.3	84.24	25.73	107.2	
03/15/87	125.35	21.94	304.59	197.98	108.11	110.08	-1.97	6924.2	56.4	536.4	0.03	1.3	4.8	0.0	1.00	0.84	37.4	84.39	25.69	106.6	
03/22/87	125.22	19.62	275.23	178.90	108.28	110.14	-1.86	6961.7	37.5	537.9	0.12	5.4	19.2	0.2	1.07	0.90	40.2	84.66	25.46	106.6	
03/29/87	125.62	17.35	240.94	156.61	108.82	110.57	-1.75	7194.5	232.9	546.9	4.78	214.3	764.8	7.6	1.05	0.88	39.5	84.82	25.65	106.2	
04/05/87	125.49	26.00	360.96	234.62	109.09	110.94	-1.85	7393.4	196.9	554.4	2.46	112.1	393.8	3.9	1.15	0.94	43.0	85.30	25.56	106.8	
04/12/87	125.38	22.84	317.10	206.11	109.30	111.01	-1.71	7433.9	40.5	556.0	0.00	0.0	0.0	0.0	1.47	1.21	55.7	85.35	25.66	109.9	
04/19/87	125.34	20.44	283.75	184.44	109.52	111.06	-1.54	7461.0	27.1	557.0	0.23	10.7	36.8	0.4	1.52	1.25	57.7	85.44	25.6		

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793968 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711789.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Effective Discharge = 65%		Florida n Aquifer Elevation elev	Lake - Florida Aquifer Elevation ft				Brooklyn Leakage ac-feet																
	Magnolia Elevation ft	Magnolia Discharge cfs							Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet														
07/05/87	125.02	14.11	195.98	127.37	109.41	110.91	-1.50			7378.6	-30.5	553.9	0.43	19.9	68.8	0.7	1.48	1.35	62.3	83.82	27.08	116.1		
07/12/87	125.00	14.11	195.98	127.37	109.49	110.92	-1.43			7364.7	6.1	554.1	1.54	71.1	246.4	2.5	1.87	1.70	78.5	83.80	27.12	116.3		
07/19/87	124.90	13.82	191.94	124.76	109.38	110.87	-1.49			7354.9	-29.8	553.0	0.40	18.5	64.0	0.6	1.36	1.24	57.1	83.67	27.20	116.5		
07/26/87	124.80	12.46	173.01	112.46	108.24	110.81	-1.57			7324.3	-30.5	551.8	1.46	67.3	233.6	2.3	2.29	2.08	98.0	83.50	27.31	116.6		
08/02/87	124.80	11.23	155.95	101.37	108.10	110.76	-1.66			7297.8	-26.5	550.8	1.06	48.7	189.6	1.7	1.47	1.34	61.5	83.37	27.39	116.6		
08/09/87	124.79	11.23	155.95	101.37	108.09	110.67	-1.68			7248.9	-48.9	548.9	0.53	24.3	84.8	0.8	1.50	1.28	58.5	83.01	27.66	117.0		
08/16/87	125.14	11.12	154.34	100.32	106.34	110.92	-1.58			7396.1	137.2	554.2	4.03	184.4	644.8	6.4	0.93	0.79	36.2	83.46	27.46	117.7		
08/23/87	125.36	15.98	221.87	144.22	108.43	110.85	-1.42			7346.4	-39.7	552.7	0.00	0.0	0.0	0.0	1.68	1.43	65.9	83.36	27.48	116.0		
08/30/87	125.23	20.03	278.04	180.73	108.38	110.85	-1.49			7343.8	-2.6	552.6	0.03	1.4	4.8	0.0	1.71	1.45	66.9	83.14	27.71	117.8		
09/06/87	125.18	17.53	243.43	158.23	109.36	110.88	-1.52			7362.0	18.2	553.2	0.22	10.1	35.2	0.4	0.91	0.89	31.8	83.27	27.61	118.7		
09/13/87	125.12	16.65	231.22	150.29	108.38	111.02	-1.65			7441.7	79.7	556.3	2.03	93.8	324.8	3.2	1.40	1.08	49.1	83.21	27.81	118.4		
09/20/87	125.02	15.65	217.34	141.27	108.24	111.08	-1.84			7478.6	34.9	557.6	1.28	56.4	201.6	2.0	1.33	1.01	46.9	83.09	28.05	119.9		
09/27/87	124.82	14.11	195.98	127.37	108.97	111.02	-2.05			7438.9	-37.7	556.2	0.00	0.0	0.0	0.0	1.24	0.94	43.8	82.77	28.25	121.3		
10/04/87	124.64	11.47	159.22	103.49	108.81	110.93	-2.12			7389.4	-49.5	554.3	0.43	19.9	68.8	0.7	1.47	1.12	51.8	82.69	28.24	121.8		
10/11/87	124.51	9.51	132.10	85.87	108.61	110.79	-2.18			7314.3	-75.2	551.4	0.00	0.0	0.0	0.0	1.21	0.88	39.7	82.64	28.15	121.3		
10/18/87	124.32	8.31	115.45	75.04	108.31	110.83	-2.32			7225.3	-89.0	548.0	0.00	0.0	0.0	0.0	1.34	0.95	43.7	82.47	28.16	120.3		
10/25/87	124.18	6.82	94.68	61.54	108.10	110.46	-2.36			7132.5	-92.8	544.5	0.00	0.0	0.0	0.0	1.07	0.76	34.7	82.21	28.25	119.6		
11/01/87	124.06	5.67	81.51	52.98	107.91	110.27	-2.36			7028.6	-103.6	540.5	0.00	0.0	0.0	0.0	1.16	0.82	37.4	82.10	28.17	119.2		
11/08/87	124.26	5.13	71.28	46.33	107.88	110.20	-2.32			6988.7	-39.1	539.0	1.42	64.0	227.2	2.3	0.90	0.75	33.6	82.20	28.00	116.0		
11/15/87	124.20	6.40	88.85	57.75	107.68	110.02	-2.34			6986.9	-82.8	535.4	0.00	0.0	0.0	0.0	0.90	0.75	33.6	82.10	27.92	117.0		
11/22/87	124.46	6.00	83.31	54.15	107.70	110.07	-2.37			6922.4	25.4	536.4	2.76	123.1	441.6	4.4	1.09	0.90	40.4	82.14	27.93	115.9		
11/29/87	124.48	7.89	109.60	71.24	107.59	109.95	-2.36			6857.2	-65.2	533.8	0.13	5.8	20.8	0.2	0.71	0.59	28.3	82.25	27.70	116.1		
12/06/87	124.45	8.08	111.91	72.74	107.46	109.82	-2.36			6785.8	-71.3	531.0	0.00	0.0	0.0	0.0	0.88	0.68	29.5	81.75	28.07	114.6		
12/13/87	124.38	7.81	108.47	70.51	107.19	109.69	-2.50			6719.9	-65.9	528.4	0.05	2.2	8.0	0.1	0.88	0.82	23.2	81.74	27.95	115.5		
12/20/87	124.54	7.28	100.84	65.54	107.20	109.64	-2.44			6694.0	-25.9	527.4	0.98	43.2	156.8	1.6	0.84	0.49	21.7	81.70	27.94	114.5		
12/27/87	124.54	8.58	119.09	77.41	107.08	109.54	-2.48			6639.1	-54.9	525.2	0.02	0.9	3.2	0.0	0.56	0.43	18.9	81.73	27.81	114.2		
01/03/88	124.46	8.58	119.09	77.41	106.84	109.45	-2.61			6594.0	-45.1	523.4	0.13	5.7	20.8	0.2	0.45	0.35	15.2	81.66	27.79	113.2		
01/10/88	124.44	8.08	111.91	72.74	106.81	109.46	-2.65			6596.1	2.0	523.5	1.23	53.6	196.8	2.0	0.45	0.31	13.5	81.53	27.93	112.8		
01/17/88	124.38	7.73	107.35	69.78	106.81	109.34	-2.73			6534.5	-61.6	521.0	0.27	0.9	3.2	0.0	0.63	0.43	19.0	81.48	27.86	113.3		
01/24/88	124.60	7.28	100.84	65.54	106.80	109.46	-2.66			6598.9	84.4	523.6	2.82	126.8	467.2	4.7	0.67	0.46	20.1	81.72	27.74	112.5		
01/31/88	124.70	9.13	126.74	82.38	106.71	109.45	-2.74			6593.7	-5.2	523.4	0.94	41.0	150.4	1.5	0.58	0.40	17.5	81.75	27.70	112.6		
02/07/88	124.70	10.12	140.58	91.38	106.67	109.40	-2.73			6568.1	-25.6	522.3	0.42	18.3	67.2	0.7	0.74	0.54	23.6	81.73	27.67	112.4		
02/14/88	124.68	10.12	140.58	91.38	106.64	109.33	-2.69			6532.7	-35.5	520.9	0.25	10.9	40.0	0.4	0.82	0.60	28.1	81.71	27.62	112.1		
02/21/88	124.88	9.92	137.69	89.50	106.83	109.61	-2.78			6675.9	143.2	526.6	4.08	177.1	662.8	6.5	0.58	0.42	18.4	82.01	27.82	111.6		
02/28/88	124.96	13.54	187.98	122.20	106.84	109.56	-2.72			6652.4	-23.5	525.7	0.00	0.0	0.0	0.0	1.03	0.75	33.0	82.12	27.44	112.7		
03/06/88	125.20	13.28	184.13	119.69	106.97	109.77	-2.80			6762.1	109.7	530.1	2.98	130.6	478.8	4.8	0.91	0.76	33.5	82.38	27.39	111.8		
03/13/88	125.40	17.00	236.03	153.42	107.37	110.23	-2.67			6907.5	145.4	535.8	3.24	143.1	518.4	5.2	1.18	0.99	43.8	82.81	27.23	112.6		
03/20/88	125.42	20.86	289.57	188.22	107.58	110.04	-2.65			7008.3	98.9	539.6	1.56	69.7	249.6	2.5	1.29	1.08	48.4	82.84	27.39	113.1		
03/27/88	125.40	21.28	295.50	192.07	107.78	110.28	-2.52			7032.1	25.8	540.6	0.00	0.0	0.0	0.0	1.37	1.15	51.7	83.00	27.28	114.6		
04/03/88	125.28	20.86	289.57	188.22	107.84	110.30	-2.46			7048.5	14.4	541.2	0.00	0.0	0.0	0.0	1.81	1.32	59.5	83.10	27.20	114.3		
04/10/88	125.10	18.46	256.24	168.56	107.81	110.33	-2.52			7061.2	14.7	541.7	0.30	13.5	48.0	0.5	1.40	1.15	51.8	82.82	27.51	114.1		
04/17/88	124.88	15.33	212.89	138.38	107.78	110.36	-2.60			7080.4	19.2	542.5	0.82	41.5	147.2	1.5	1.26	1.03	46.6	82.70	27.66	115.5		
04/24/88	124.82	13.54	187.99	122.20	107.69	110.28	-2.59			7036.4	-44.0	540.8	0.13	5.9	20.8	0.2	1.51	1.24	56.0	82.55	27.73	116.3		
05/01/88	124.80	12.72	178.64	114.82	107.71	110.22	-2.51			7004.8	-31.6	539.6	0.51	23.0	81.8	0.8	1.46	1.20	54.0	82.53	27.69	116.3		
05/08/88	124.84	11.23	155.95	101.37	107.40	110.07	-2.66			6918.8	-85.9	536.2	0.00	0.0	0.0	0.0	1.67	1.59	71.5	82.13	27.94	115.8		
05/15/88	124.90	9.51	132.10	85.87	107.47	110.04	-2.57			6903.4	-15.4	535.6	1.58	69.7	249.8	2.5	1.51	1.28	57.4	82.37	27.67	116.1		
05/22/88	124.84	12.46	173.01	112.46	107.34	109.90	-2.56			6930.0	-73.4	532.7	0.00	0.0	0.0	0.0	1.67	1.59	70.9	81.94	27.96	114.9		
05/29/88	124.76	11.71	162.58	105.66	107.25	109.86	-2.61			6908.9	-23.2	531.8	1.17	51.9	187.2	1.9	1.78	1.51	67.2	81.92	27.94	115.9		
06/05/88	124.84	10.78	149.61	97.24	107.11	109.66	-2.55			6705.5	-101.4	527.8	0.00	0.0	0.0	0.0	2.07	1.88	83.5	81.75	27.91	115.2		
06/12/88	124.82	9.51	132.10	85.87	106.86	109.59	-2.73			6684.3	-41.2	526.2	1.08	47.5	172.8	1.7	1.55	1.41	62.0	81.66	27.93	114.2		
06/19/88	124.40	8.40	116.65	75.82	106.66	109.36	-2.70			6548.4	-115.9	521.5	0.00	0.0	0.0	0.0	1.95	1.77	77.8	81.22	28.14	113.9		
06/26/88	124.28	7.42	102.97	66.93	106.38	109.26	-2.88			6494.2	-54.2	519.4	1.03	44.8	164.8	1.8	1.36	1.24	53.8	81.08	28.20	113.8		
07/03/88	124.10	6.40	88.85	57.75	108.19	109.15	-2.96			6436.6	-57.6	517.0	1.25	54.1	200.0	2.								

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective 65% Magnolia Discharge ac-feet				Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Drainage Area ac-feet	Overland Runoff Volume ac-feet						Floridan Aquifer Elevation elev	Lake - Aquifer Elevation ft				Brooklyn Leakage ac-feet		
10/02/88	125.48	22.81	313.93	204.05	107.48	109.98	-2.48	6860.8	103.3	533.9	0.94	41.5	150.4	1.5	1.04	0.79	34.9	83.53	28.43	108.9				
10/09/88	125.15	22.18	307.67	199.99	107.40	110.14	-2.74	6956.8	96.0	537.7	0.98	43.6	156.8	1.6	1.28	0.89	39.8	83.45	28.69	109.4				
10/16/88	124.88	16.15	224.18	145.71	107.28	110.14	-2.86	6957.3	0.8	537.0	0.00	0.0	0.0	0.0	1.08	0.75	33.7	83.36	26.78	111.2				
10/23/88	124.76	12.20	199.46	110.15	107.21	110.08	-2.85	6913.5	-43.8	536.0	0.00	0.0	0.0	0.0	1.33	0.94	42.3	83.35	26.71	111.6				
10/30/88	124.80	11.00	152.74	96.28	107.11	109.97	-2.86	6870.1	-43.4	534.3	0.00	0.0	0.0	0.0	1.00	1.00	0.71	31.7	83.19	26.78	111.0			
11/06/88	124.62	11.23	155.95	101.37	107.04	109.97	-2.93	6866.9	-3.3	534.2	0.81	36.1	129.6	1.3	0.84	0.70	31.0	83.31	26.66	110.9				
11/13/88	124.62	11.47	159.22	103.49	106.95	109.90	-2.95	6830.0	-36.8	532.7	0.00	0.0	0.0	0.0	0.81	0.67	29.9	83.11	26.79	110.4				
11/20/88	124.62	11.47	159.22	103.49	106.91	109.84	-2.93	6796.4	-33.7	531.4	0.00	0.0	0.0	0.0	0.72	0.80	26.5	83.14	26.70	110.6				
11/27/88	124.62	11.47	159.22	103.49	107.02	109.94	-2.92	6854.0	57.6	533.7	1.99	86.1	318.4	3.2	0.74	0.61	27.2	83.25	26.69	110.0				
12/04/88	124.62	11.47	159.22	103.49	106.90	109.92	-3.02	6843.2	-10.8	533.3	0.40	17.8	64.0	0.6	0.65	0.90	22.3	83.23	26.69	110.4				
12/11/88	124.66	11.47	159.22	103.49	106.91	109.88	-2.97	6817.5	-25.7	532.2	0.00	0.0	0.0	0.0	0.55	0.42	18.8	83.26	26.62	110.4				
12/18/88	124.83	11.95	165.97	107.88	106.82	109.98	-3.14	6863.1	45.5	534.0	1.33	59.0	212.8	2.1	0.40	0.31	13.7	83.01	26.95	109.8				
12/25/88	124.80	11.59	160.88	104.57	106.74	109.91	-3.17	6837.6	-25.5	533.0	0.00	0.0	0.0	0.0	0.54	0.42	18.5	83.10	26.61	111.6				
01/01/89	124.78	11.23	155.95	101.37	106.66	109.86	-3.20	6808.6	-28.9	531.9	0.00	0.0	0.0	0.0	0.57	0.44	19.5	83.13	26.73	110.8				
01/08/89	124.74	11.00	152.74	99.26	106.52	109.79	-3.27	6774.1	-34.5	530.5	0.00	0.0	0.0	0.0	0.77	0.53	23.5	82.87	26.92	110.2				
01/15/89	124.72	10.55	148.53	95.25	106.38	109.74	-3.36	6743.7	-30.4	529.3	0.00	0.0	0.0	0.0	0.49	0.34	14.9	82.74	27.00	110.7				
01/22/89	124.70	10.34	143.52	93.29	106.31	109.76	-3.45	6755.2	11.5	529.6	1.14	50.3	182.4	1.8	0.78	0.52	23.1	82.86	26.90	110.9				
01/29/89	124.70	10.12	140.58	91.38	106.24	109.68	-3.44	6713.4	-41.8	528.1	0.01	0.4	1.6	0.0	0.78	0.52	23.2	82.67	27.01	110.5				
02/05/89	124.70	10.12	140.58	91.38	106.09	109.59	-3.50	6666.6	-46.8	526.3	0.00	0.0	0.0	0.0	0.68	0.63	27.6	82.52	27.07	110.6				
02/12/89	124.64	10.12	140.58	91.38	106.10	109.49	-3.39	6614.2	-52.4	524.2	0.00	0.0	0.0	0.0	1.04	0.78	33.3	82.28	27.21	110.4				
02/19/89	124.54	9.51	132.10	85.87	105.89	109.39	-3.50	6561.4	-52.8	522.1	0.00	0.0	0.0	0.0	0.68	0.64	26.1	82.22	27.17	110.6				
02/26/89	124.62	8.58	119.09	77.41	105.63	109.34	-3.71	6535.0	-26.4	521.0	0.84	36.5	134.4	1.3	1.00	0.73	31.8	81.99	27.35	110.0				
03/05/89	124.62	8.40	116.65	75.82	105.59	109.31	-3.73	6521.7	-13.3	520.5	1.26	54.7	201.6	2.0	0.97	0.81	35.4	82.15	27.16	110.5				
03/12/89	124.52	9.32	129.39	84.10	105.43	109.20	-3.77	6482.7	-59.0	518.1	0.00	0.0	0.0	0.0	0.92	0.77	33.5	81.99	27.21	109.8				
03/19/89	124.46	8.40	116.65	75.82	105.26	109.02	-3.77	6372.3	-90.4	514.4	0.00	0.0	0.0	0.0	1.57	1.32	36.9	81.61	27.41	109.3				
03/26/89	124.42	7.88	109.60	71.24	105.10	108.89	-3.79	6305.1	-87.2	511.7	0.30	12.9	48.0	0.5	1.18	0.99	42.5	81.66	27.23	109.3				
04/02/89	124.34	7.57	105.14	68.34	104.93	108.70	-3.77	6207.7	-97.4	507.7	0.00	0.0	0.0	0.0	1.65	1.35	57.7	81.32	27.38	108.0				
04/09/89	124.28	6.96	96.70	62.65	104.80	108.53	-3.73	6122.6	-85.1	504.2	0.31	13.1	49.6	0.5	1.55	1.27	53.8	81.33	27.20	107.8				
04/16/89	124.20	6.54	90.78	59.00	104.50	108.46	-3.96	6063.6	-39.0	502.5	1.02	42.9	163.2	1.6	1.05	0.86	36.2	81.30	27.16	108.3				
04/23/89	124.14	6.00	83.31	54.15	104.33	108.26	-3.93	5995.3	-98.3	498.4	0.01	0.4	1.6	0.0	1.37	1.12	47.0	80.97	27.29	108.8				
04/30/89	123.98	5.62	78.01	50.71	104.15	108.02	-3.87	5866.5	-118.8	493.4	0.00	0.0	0.0	0.0	1.88	1.54	60.0	80.68	27.34	108.5				
05/07/89	123.90	4.87	64.84	42.14	103.93	107.84	-3.91	5779.3	-87.2	489.7	0.77	31.7	123.2	1.2	1.65	1.40	57.7	80.73	27.11	104.6				
05/14/89	123.82	4.22	56.61	38.09	103.70	107.61	-3.91	5693.0	-116.3	484.7	0.30	12.2	46.0	0.5	1.85	1.57	64.2	80.52	27.09	102.9				
05/21/89	123.72	3.78	52.50	34.13	103.50	107.33	-3.83	5530.3	-132.7	478.9	0.02	0.8	3.2	0.0	1.92	1.63	65.9	80.23	27.10	101.8				
05/28/89	123.62	3.23	44.91	28.19	103.29	107.13	-3.84	5436.1	-94.2	474.8	0.84	33.5	134.4	1.3	1.70	1.45	57.7	79.96	27.15	100.6				
06/04/89	123.51	2.68	37.22	24.19	103.17	106.81	-3.64	5282.8	-153.3	468.0	0.05	2.0	8.0	0.1	2.21	2.01	79.6	79.72	27.09	99.9				
06/11/89	123.46	2.05	28.44	18.48	102.96	106.63	-3.65	5201.1	-81.7	464.3	1.29	50.3	208.4	2.1	1.53	1.39	54.3	79.90	26.73	98.3				
06/18/89	123.34	1.87	25.96	16.87	102.91	106.43	-3.52	5109.2	-92.0	460.2	1.33	51.5	212.8	2.1	1.88	1.71	66.2	79.72	26.71	96.2				
06/25/89	123.34	0.99	13.70	8.91	102.80	106.58	-3.78	5189.8	80.5	462.9	5.17	198.2	827.2	8.3	1.71	1.58	59.7	79.67	26.69	95.3				
07/02/89	123.40	0.99	13.70	8.91	102.83	106.53	-3.70	5154.5	-15.1	462.2	3.22	124.2	515.2	5.2	1.64	1.49	57.6	79.89	26.64	95.8				
07/09/89	123.34	1.38	19.10	12.42	102.96	106.23	-3.27	5017.3	-137.3	456.0	0.02	0.8	3.2	0.0	1.57	1.43	55.0	79.67	26.56	95.5				
07/16/89	123.40	0.99	13.70	8.91	102.84	106.93	-3.09	4881.7	-135.6	449.7	0.18	6.8	28.8	0.3	1.67	1.52	57.1	79.72	26.21	93.9				
07/23/89	123.36	1.38	19.10	12.42	102.73	105.94	-3.21	4685.0	3.4	449.8	3.39	127.0	542.4	5.4	1.47	1.34	50.7	79.64	26.30	91.4				
07/30/89	123.36	1.25	17.33	11.27	102.63	105.62	-2.99	4743.1	-142.0	443.2	0.04	1.5	6.4	0.1	1.65	1.66	63.1	79.57	26.05	91.7				
08/06/89	123.24	1.12	15.53	10.10	102.44	105.39	-2.95	4639.8	-103.3	438.3	0.75	27.7	120.0	1.2	1.68	1.43	52.7	79.49	25.90	89.5				
08/13/89	123.14	0.29	4.09	2.66	102.25	105.30	-3.05	4600.6	-39.2	436.4	2.26	82.5	361.6	3.6	1.29	1.10	40.0	79.51	25.79	88.0				
08/20/89	123.14				102.06	105.08	-3.02	4504.6	-98.0	431.8	1.00	36.4	180.0	1.6	1.51	1.28	46.7	79.44	25.64	87.2				
08/27/89	123.00				101.96	105.02	-3.16	4478.8	-25.9	430.5	3.06	110.1	489.6	4.9	1.80	1.53	55.1	79.46	25.56	85.8				
09/03/89	122.40				101.89	105.04	-3.15	4488.6	9.8	431.0	3.87	138.8	619.2	6.2	1.83	1.39	49.9	79.46	25.56	85.3				
09/10/89	122.54				101.82	104.89	-3.07	4423.1	-65.5	427.8	1.53	55.0	244.8	2.4	1.37	1.04	37.4	79.56	25.33	85.5				
09/17/89	122.86				101.72	104.69	-2.97	4339.1	-84.1	423.7	0.98	34.9	156.8	1.6	1.36	1.03	36.6	79.71	24.98	84.0				
09/24/89	122.44				101.73	104.55	-2.82	4278.6	-80.4	420.7	1.40	49.4	224.0	2.2	1.12	0.85	30.1	79.71	24.84	82.0				
10/01/89	122.80				101.66	104.44	-2.78	4233.6	-45.0	418.4	1.65	57.8	284.0	2.6	0.92	0.70	24.5	79.78	24.66	81.0				
10/08/89	122.70				101.59	104.30	-2.71	4175.5	-58.1	415.5	1.55	54.0	248.0	2.5	1.40	0.99	34.7	79.78	24.52	80.0				
10/15/89	122.44				101.20	104.06	-2.86	4075.2	-100.3	410.4	0.05	1.7	8.0	0.1	0.94	0.67	23.1	79.60	24.46	79.0				
10/22/89	122.34				101.00	1																		

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 1820 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 /day		
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet				Brooklyn Discharge cfs	Brooklyn Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
01/07/90	121.58				99.58	101.93	-2.35		3248.1	-54.0	365.8	0.82	25.2	131.2	1.3	0.66	0.46	14.0	78.87	23.06	66.5	
01/14/90	121.50				99.46	101.74	-2.28		3180.1	-68.1	361.9	0.46	14.0	73.6	0.7	0.83	0.57	17.5	78.56	23.18	65.4	
01/21/90	121.44				99.27	101.51	-2.24		3067.3	-82.7	357.1	0.00	0.0	0.0	0.0	0.85	0.59	17.7	78.70	22.81	65.0	
01/28/90	121.34				99.16	101.29	-2.13		3021.1	-76.3	352.6	0.21	8.2	33.6	0.3	0.96	0.66	19.7	78.90	22.69	63.1	
02/04/90	121.34				99.05	101.10	-2.05		2953.5	-67.5	348.5	0.39	11.5	62.4	0.6	0.82	0.60	17.8	78.84	22.46	62.0	
02/11/90	121.34				98.89	100.94	-2.05		2898.7	-54.8	345.2	0.89	25.8	142.4	1.4	1.01	0.74	21.4	78.81	22.33	60.7	
02/18/90	121.26				98.65	100.75	-1.90		2833.4	-65.3	341.2	0.60	17.3	96.0	1.0	1.13	0.82	23.7	78.49	22.26	59.8	
02/25/90	121.36				98.89	100.66	-1.77		2800.5	-32.9	339.2	1.37	39.0	219.2	2.2	0.73	0.53	15.2	78.61	22.05	58.9	
03/04/90	121.22				98.83	100.44	-1.61		2728.6	-72.0	334.7	0.43	12.2	68.8	0.7	1.13	0.95	26.8	78.87	21.57	58.0	
03/11/90	121.10				98.66	100.20	-1.54		2646.6	-82.0	329.6	0.04	1.1	6.4	0.1	1.16	0.97	27.2	78.62	21.58	56.0	
03/18/90	121.02				98.50	99.98	-1.48		2575.8	-70.8	325.0	0.58	15.9	92.8	0.9	1.41	1.18	32.5	78.81	21.37	55.1	
03/25/90	120.96				98.31	99.72	-1.41		2491.0	-84.8	318.5	0.00	0.0	0.0	0.0	1.36	1.14	30.9	78.43	21.29	53.8	
04/01/90	120.88				98.18	99.69	-1.51		2481.4	-9.7	318.9	2.57	68.4	411.2	4.1	1.35	1.11	29.5	78.46	21.23	52.7	
04/08/90	120.82				98.05	99.60	-1.55		2453.9	-27.5	317.1	2.11	56.1	337.6	3.4	1.58	1.30	34.4	78.24	21.36	52.5	
04/15/90	120.83				97.82	99.32	-1.51		2367.0	-86.9	311.3	0.01	0.3	1.6	0.0	1.60	1.31	34.7	78.18	21.14	52.5	
04/22/90	120.56				97.64	99.05	-1.42		2284.1	-82.9	305.7	0.00	0.0	0.0	0.0	1.50	1.23	31.9	78.10	20.95	51.0	
04/29/90	120.48				97.51	98.92	-1.41		2242.3	-41.7	302.8	1.55	39.5	248.0	2.5	1.63	1.34	34.0	78.11	20.81	49.7	
05/06/90	120.42				97.33	98.62	-1.29		2153.0	-89.4	298.5	0.00	0.0	0.0	0.0	1.89	1.61	40.5	77.93	20.69	48.8	
05/13/90	120.36				97.16	98.38	-1.22		2083.0	-69.9	291.6	0.54	13.3	86.4	0.9	1.74	1.48	38.5	77.70	20.68	47.8	
05/20/90	120.32				97.04	98.20	-1.16		2029.1	-54.0	287.7	1.34	32.6	214.4	2.1	2.03	1.73	41.9	77.68	20.52	46.7	
05/27/90	120.30				96.84	97.91	-1.07		1948.6	-80.4	281.7	0.03	0.7	4.8	0.0	1.74	1.48	35.5	77.46	20.45	45.8	
06/03/90	120.06				96.66	97.72	-1.06		1894.9	-53.7	277.7	1.42	33.3	227.2	2.3	2.09	1.90	44.7	77.22	20.50	44.7	
06/10/90	120.06				96.61	97.60	-0.99		1862.1	-32.8	275.2	1.56	36.6	252.8	2.5	1.32	1.20	27.8	77.38	20.22	44.1	
06/17/90	120.10				96.47	97.30	-0.83		1778.7	-63.4	268.6	0.02	0.5	3.2	0.0	1.95	1.77	40.7	77.18	20.12	43.1	
06/24/90	120.15				96.41	97.36	-0.95		1795.8	17.0	270.1	3.96	88.7	633.6	6.3	1.77	1.61	36.1	77.43	19.93	41.9	
07/01/90	120.22				96.54	97.40	-0.86		1805.9	10.1	270.9	3.34	75.2	534.4	5.3	1.40	1.27	28.7	77.45	19.95	41.7	
07/08/90	120.16				96.45	97.20	-0.75		1753.1	-52.7	266.8	0.86	19.4	137.6	1.4	1.54	1.40	31.6	77.25	19.95	41.9	
07/15/90	120.06				96.26	97.56	-1.30		1849.3	96.1	274.3	7.14	158.6	1142.4	11.4	1.62	1.47	32.8	77.35	20.21	41.3	
07/22/90	120.12				96.23	97.49	-1.26		1830.3	-19.0	272.8	2.29	52.3	366.4	3.7	1.54	1.40	32.0	77.37	20.12	43.0	
07/29/90	120.01				96.18	97.19	-1.01		1750.6	-79.7	266.6	0.07	1.6	11.2	0.1	1.68	1.71	36.9	77.43	19.76	42.5	
08/05/90	119.90				96.02	96.95	-0.93		1698.8	-63.8	261.6	0.41	9.1	65.6	0.7	1.73	1.47	32.7	77.09	19.66	40.8	
08/12/90	119.78				95.78	96.96	-1.18		1689.2	2.4	261.6	2.79	80.8	446.4	4.5	1.22	1.04	22.8	77.06	19.90	40.3	
08/19/90	119.70				95.55	96.82	-1.27		1652.3	-36.9	258.8	1.32	28.8	211.2	2.1	1.48	1.26	27.4	77.00	19.62	40.4	
08/26/90	119.58				95.35	96.72	-1.37		1627.3	-25.0	256.8	1.80	36.8	269.0	2.9	1.47	1.25	26.9	76.95	19.77	39.8	
09/02/90	119.44				95.15	96.65	-1.50		1609.2	-18.1	255.3	2.07	44.3	331.2	3.3	1.62	1.23	26.3	76.88	19.77	39.4	
09/09/90	119.32				94.95	96.43	-1.48		1553.9	-45.3	250.7	0.29	6.2	46.4	0.5	1.41	1.07	22.6	76.81	19.62	39.1	
09/16/90	119.18				94.78	96.23	-1.45		1504.8	-49.1	246.6	0.52	10.9	83.2	0.8	1.43	1.09	22.7	76.75	19.49	38.1	
09/23/90	119.12				94.60	95.99	-1.39		1446.3	-58.5	241.6	0.22	4.5	35.2	0.4	1.67	1.27	26.1	76.68	19.32	37.2	
09/30/90	118.92				94.55	95.83	-1.28		1407.6	-38.7	238.2	0.82	16.5	131.2	1.3	1.33	1.01	20.3	76.61	19.22	36.2	
10/07/90	118.84				94.49	95.61	-1.12		1356.4	-51.3	233.6	0.08	1.6	12.8	0.1	1.24	0.89	17.5	76.54	19.07	35.5	
10/14/90	119.06				94.44	95.67	-1.23		1368.3	11.9	234.7	3.00	58.4	480.0	4.8	1.21	0.86	16.7	76.47	19.19	34.5	
10/21/90	119.06				94.38	95.46	-1.08		1320.7	-47.7	230.4	0.12	2.3	19.2	0.2	1.10	0.78	15.3	76.40	19.06	34.9	
10/28/90	118.90				94.29	95.29	-1.00		1260.7	-40.0	226.7	0.31	6.0	49.6	0.5	0.91	0.65	12.4	76.34	18.95	34.0	
11/04/90	118.76				94.19	95.06	-0.89		1233.7	-47.0	222.4	0.00	0.0	0.0	0.0	0.87	0.72	13.6	76.27	18.81	33.3	
11/11/90	118.76				94.10	94.94	-0.84		1203.0	-30.8	218.4	0.77	14.3	123.2	1.2	0.90	0.75	13.8	76.20	18.74	32.4	
11/18/90	118.60				94.00	94.73	-0.72		1157.4	-45.5	215.1	0.00	0.0	0.0	0.0	0.90	0.75	13.7	76.16	18.57	31.9	
11/25/90	118.50				93.91	94.55	-0.64		1119.4	-38.0	211.3	0.14	2.5	22.4	0.2	0.86	0.56	9.8	76.04	18.51	31.0	
12/02/90	118.39				93.81	94.37	-0.56		1082.5	-36.9	207.6	0.16	2.8	25.6	0.3	0.71	0.55	9.6	75.99	18.48	30.3	
12/09/90	118.40				93.72	94.32	-0.60		1070.5	-12.0	206.4	1.32	22.8	211.2	2.1	0.94	0.42	7.2	75.90	18.42	29.8	
12/16/90	118.30				93.62	94.14	-0.51		1034.0	-36.5	202.7	0.00	0.0	0.0	0.0	0.53	0.41	7.0	75.97	18.17	29.5	
12/23/90	118.22				93.53	93.96	-0.43		997.9	-36.1	198.9	0.07	0.0	0.0	0.0	0.58	0.45	7.5	75.91	18.05	28.5	
12/30/90	118.12				93.43	93.78	-0.35		953.7	-34.2	195.3	0.00	1.2	11.2	0.1	0.60	0.46	7.7	75.91	17.87	27.8	
01/06/91	118.08				93.33	93.62	-0.29		933.0	-30.8	192.0	0.00	0.0	0.0	0.0	0.33	0.23	3.7	75.80	17.82	27.1	
01/13/91	118.12				93.24	93.65	-0.41		937.1	4.1	192.4	2.20	35.2	362.0	3.5	0.73	0.50	8.1	75.90	17.75	26.5	
01/20/91	118.12				93.14	93.62	-0.48		932.6	-4.5	191.9	1.84	26.3	262.4	2.6	0.63	0.43	7.0	75.85	17.77	26.5	
01/27/91	118.12				93.15	93.56	-0.41		920.1	-12.4	190.6	1.18	18.9	188.8	1.9	0.61	0.42	6.7	75.74	17.82	26.4	
02/03/91	118.11				93.27	93.57	-0.30		923.1	3.0	190.9	1.88	31.4	318.8	3.2	0.46	0.34	5.3	75.77	17.80	26.3	
02/10/91	118.11				93.25	93.41	-0.16		891.5	-31.6	187.4	0.13	2.1	20.8	0.2	0.65	0.47	7.6	76.02	17.39	26.3	
02/17/91	118.09				93.18	93.24	-0.06		859.9	-31.6	183.8	0.32	5.0	51.2	0.5	1.04	0.76	11.9	75.61	17.63	25.3	
02/24/91																						

BROOKLYN LAKE LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 123.2 C1 = -3793966 C2 = 91939.34 C3 = -742.7 C4 = 2				Measured Brooklyn Elevation ft	Calculated Brooklyn Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903		Brooklyn Volume at Start of Week ac-feet	Change in Brooklyn Volume During Week ac-feet	Brooklyn Surface Area acres	Etonia Pre.p. in/week	Lake Surface Pre.p. ac-feet	Drainage area = 1920 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Brooklyn Lake Evap. in/week	Brooklyn Lake Evap. ac-feet	Leakance = 1.107E-03 1/day		
	Magnolia Elevation ft	Magnolia Discharge cfs	Magnolia Discharge ac-feet	Effective Magnolia Discharge ac-feet				Brooklyn Discharge cfs	Brooklyn Discharge ac-feet						Drainage Area Pre.p. ac-feet	Overland Runoff Volume ac-feet				Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Brooklyn Leakage ac-feet
04/07/91	118.04				93.04	92.75	0.29			773.5	-36.9	173.7	0.01	0.1	1.6	0.0	1.25	1.03	15.2	77.20	15.55	21.8
04/14/91	118.10				92.97	92.64	0.33			754.8	-18.6	171.4	1.11	18.1	177.6	1.8	1.31	1.07	15.5	77.34	15.30	20.9
04/21/91	118.28				92.87	92.77	0.10			776.9	22.1	174.1	3.43	49.0	548.8	5.5	1.03	0.84	12.1	77.60	15.17	20.3
04/28/91	118.44				93.08	92.71	0.37			766.7	-10.2	172.9	1.40	20.3	224.0	2.2	1.03	0.84	12.3	77.71	15.00	20.5
05/05/91	118.46				93.19	92.52	0.67			732.9	-33.8	168.7	0.36	5.2	57.6	0.6	1.59	1.35	19.5	77.75	14.77	20.1
05/12/91	118.51				93.21	92.35	0.86			705.3	-27.6	165.3	0.61	8.6	97.6	1.0	1.49	1.27	17.8	77.90	14.45	19.3
05/19/91	118.56				93.06	92.19	0.87			678.9	-26.5	161.9	0.80	11.0	126.0	1.3	1.73	1.47	20.3	77.89	14.30	18.5
05/26/91	118.62				93.06	92.09	0.97			662.6	-16.2	159.8	1.04	14.0	166.4	1.7	1.22	1.04	14.0	77.96	14.13	17.9
06/02/91	118.67				93.00	92.16	0.84			673.8	11.1	161.2	2.96	39.4	473.6	4.7	1.28	1.16	15.5	78.01	14.15	17.5
06/09/91	118.72				92.88	92.10	0.78			664.0	-9.8	160.0	1.60	21.5	256.0	2.6	1.32	1.20	16.1	78.36	13.74	17.7
06/16/91	118.78				93.07	91.85	1.22			625.7	-38.3	154.9	0.00	0.0	0.0	0.0	1.75	1.59	21.2	78.71	13.14	17.0
06/23/91	119.13				93.07	91.79	1.28			616.6	-9.1	153.6	1.61	20.8	257.6	2.6	1.42	1.29	16.7	78.78	13.01	15.8
06/30/91	119.47				93.08	91.76	1.32			611.3	-5.4	152.9	1.95	25.0	312.0	3.1	1.54	1.40	17.9	78.93	12.83	15.5
07/07/91	119.62				93.03	91.59	1.44			585.2	-26.1	149.3	0.43	5.5	68.8	0.7	1.47	1.34	17.0	78.91	12.68	15.2
07/14/91	120.16				92.99	91.60	1.39			586.5	1.3	149.5	1.92	23.9	307.2	3.1	0.97	0.88	11.0	79.00	12.60	14.7
07/21/91	120.51				92.95	91.48	1.47			569.7	-16.6	147.1	0.99	12.3	156.4	1.6	1.42	1.29	16.1	79.01	12.47	14.6
07/28/91	120.85				93.03	91.52	1.51			575.5	5.7	147.9	2.47	30.3	395.2	4.0	1.26	1.16	14.3	79.32	12.20	14.2
08/04/91	121.20				93.16	91.67	1.49			597.8	22.4	151.0	3.25	40.1	520.0	5.2	0.65	0.72	8.9	79.69	11.98	14.0
08/11/91	121.56				93.33	91.51	1.82			574.2	-23.6	147.7	0.38	4.8	80.8	0.6	1.40	1.19	15.0	79.73	11.78	14.0
08/18/91	121.91				93.50	91.38	2.12			554.1	-20.1	144.9	0.66	8.1	105.6	1.1	1.51	1.28	15.8	79.77	11.61	13.5
08/25/91	122.46				93.48	91.26	2.20			540.3	-13.8	142.8	0.82	9.9	131.2	1.3	1.17	0.99	12.0	79.72	11.56	13.0
09/01/91	123.01				93.59	91.51	2.08			573.1	32.8	147.6	4.07	46.4	651.2	6.5	1.03	0.78	9.3	79.63	11.66	12.8
09/08/91	123.56				93.69	91.37	2.32			553.0	-20.1	144.7	0.46	5.7	73.6	0.7	1.38	1.05	12.9	79.66	11.71	13.6
09/15/91	123.74	2.34	32.49	21.12	93.65	91.33	2.32			547.5	-5.5	143.9	0.01	0.1	1.6	0.0	1.49	1.13	13.7	79.46	11.87	13.1
Max	125.86	32.52	451.45	293.45	117.03	116.46	5.26	15.04	208.85	10772.73	478.38	670.01	10.02	488.66	1803.20	16.03	2.72	2.23	109.79	90.30	26.25	144.37
Min	118.04	0.00	0.00	0.00	92.87	91.28	-3.96	0.00	0.00	540.27	-236.95	142.84	0.00	0.00	0.00	0.00	0.27	0.19	3.71	75.61	11.56	12.80
Mean	124.26	9.83	136.42	88.67	106.32	106.32	0.0035	0.10	1.41	6297.05	-7.34	496.59	1.00	40.89	159.36	1.59	1.22	1.00	41.84	84.29	24.02	95.24
Std.Dev.	1.39	6.24	86.59	56.26	5.84	5.21	2.07	0.79	10.92	2329.50	74.64	109.06	1.26	53.70	202.06	2.02	0.45	0.42	20.05	3.17	3.07	27.86

D11. Lake Geneva Long-Term Lake Stage Simulation

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -69613.29 C3 = 583.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 106.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet							
01/03/85	116.46				104.73	104.73	0.00			28432.5	0.0	2025.4		0.0	0.0	0.0	0.72	0.56	93.6	87.57	17.16		
01/10/85	116.47	15.04	208.8	188.0	104.84	104.88	0.18			28330.5	-102.0	2021.8	0.00	67.4	386.1	3.9	0.62	0.48	80.4	87.81	17.07	198.4	
01/17/85	116.49	15.32	212.8	191.5	104.95	104.88	0.27			28317.8	-12.7	2021.4	0.40	70.7	405.4	4.1	0.64	0.49	83.0	87.48	17.19	194.9	
01/24/85	116.52	15.77	219.0	197.1	105.06	104.88	0.38			28311.7	-6.0	2021.2	0.42	70.7	405.4	4.1	0.64	0.49	83.0	87.48	17.19	194.9	
01/31/85	116.54	16.23	225.3	202.8	105.18	104.70	0.46			28307.2	55.5	2023.1	1.04	175.2	1003.9	10.0	1.05	0.81	136.2	87.57	17.13	198.3	
02/07/85	116.57	16.68	231.6	208.5	105.27	104.73	0.54			28412.8	45.8	2024.7	0.72	121.4	695.0	7.0	0.82	0.57	95.4	87.25	17.47	195.8	
02/14/85	116.59	17.14	238.0	214.2	105.38	104.85	0.52			28672.0	259.1	2033.8	1.94	327.3	1872.7	18.7	0.87	0.60	101.3	87.41	17.44	198.9	
02/21/85	116.61	17.61	244.4	220.0	105.48	104.81	0.67			29094.1	-77.9	2031.1	0.05	8.5	48.3	0.5	0.91	0.63	106.4	87.45	17.37	200.4	
02/28/85	116.64	18.07	250.9	225.8	105.59	104.94	0.66			28842.5	248.4	2038.8	2.03	343.8	1959.6	19.8	1.21	0.83	141.3	87.86	17.28	198.3	
03/07/85	116.66	18.54	257.4	231.7	105.70	105.05	0.65			29068.4	224.0	2047.8	1.95	331.5	1882.4	18.8	1.28	0.93	158.8	87.90	17.14	199.2	
03/14/85	116.63	19.01	264.0	237.6	105.74	105.10	0.64			29174.0	107.5	2051.3	0.98	167.2	948.0	9.5	0.87	0.64	108.4	87.84	17.28	198.3	
03/21/85	116.61	18.48	256.8	231.0	105.78	105.13	0.65			29244.0	70.0	2053.8	1.08	184.6	1042.6	10.4	1.25	0.91	158.0	87.91	17.22	200.0	
03/28/85	116.58	17.96	249.3	224.4	105.82	105.06	0.76			29099.9	-144.1	2048.8	0.00	0.0	0.0	0.0	1.35	0.99	168.7	87.96	17.11	199.8	
04/04/85	116.55	17.44	242.1	217.9	105.86	104.98	0.68			28931.9	-168.0	2042.9	0.00	0.0	0.0	0.0	1.31	1.10	187.9	87.85	17.13	198.0	
04/11/85	116.53	16.92	234.9	211.4	105.90	104.87	1.03			28896.5	-232.3	2034.8	0.00	0.0	0.0	0.0	1.72	1.44	248.0	87.85	17.02	197.7	
04/18/85	116.50	16.40	227.7	205.0	105.94	104.72	1.22			28410.5	-289.1	2024.7	0.02	3.4	19.3	0.2	2.12	1.78	302.0	87.66	17.07	195.7	
04/25/85	116.32	15.89	220.7	198.6	105.95	104.85	1.10			28667.3	256.8	2033.7	2.74	462.3	2845.0	28.5	1.66	1.39	236.3	87.63	17.22	195.2	
05/02/85	116.15	12.65	175.8	158.1	105.96	104.75	1.20			28463.5	-203.8	2028.5	0.38	64.4	396.8	3.7	1.67	1.37	232.1	87.37	17.38	197.9	
05/09/85	115.97	9.65	134.0	120.8	105.96	104.56	1.40			28067.4	-376.1	2013.3	0.00	0.0	0.0	0.0	2.15	1.78	297.7	87.25	17.31	199.0	
05/16/85	115.90	8.95	96.5	96.8	105.97	104.37	1.60			27894.2	-363.2	1999.3	0.18	30.2	173.8	1.7	2.29	1.88	315.0	87.03	17.33	198.9	
05/23/85	115.82	4.90	63.9	57.5	105.98	104.14	1.84			27243.0	-451.2	1983.2	0.00	0.0	0.0	0.0	2.29	1.88	312.9	86.47	17.67	196.8	
05/30/85	115.45	2.86	36.9	33.2	105.99	103.94	2.05			26843.2	-399.8	1968.8	0.28	43.0	251.0	2.5	2.07	1.70	280.5	86.20	17.74	196.0	
06/06/85	115.27	1.18	16.4	14.8	105.99	103.83	2.18			26826.6	-217.5	1960.9	1.46	239.5	1409.4	14.1	2.07	1.78	288.7	86.04	17.79	197.3	
06/13/85	115.41	0.22	3.1	2.8	106.00	104.14	1.86			27234.8	606.2	1982.9	6.75	939.8	5550.7	55.5	1.38	1.17	191.7	86.36	17.78	197.1	
06/20/85	115.54	0.92	12.8	11.5	106.01	104.23	1.78			27416.6	181.8	1989.4	3.06	505.8	2953.9	29.5	1.18	1.00	165.7	86.45	17.78	199.2	
06/27/85	115.68	1.94	26.9	24.2	106.02	104.11	1.90			27198.1	-226.5	1981.2	1.04	172.4	1003.9	10.0	1.67	1.42	235.3	86.57	17.54	199.8	
07/04/85	115.82	3.25	45.1	40.6	106.02	103.94	2.08			26845.7	-342.4	1968.9	0.48	79.2	463.4	4.6	1.80	1.64	270.4	86.87	17.07	198.4	
07/11/85	115.95	4.83	67.0	60.3	106.03	103.88	2.15			26721.7	-124.1	1984.4	1.51	247.8	1457.7	14.6	1.72	1.57	258.8	86.98	16.90	189.9	
07/18/85	116.09	6.65	82.3	83.1	106.11	104.06	2.02			27139.0	417.4	1978.5	4.05	663.0	3606.6	36.1	1.21	1.10	180.2	87.15	16.84	187.5	
07/25/85	116.22	8.88	120.6	106.5	106.20	103.97	2.23			26906.5	-238.5	1970.9	0.55	90.7	530.9	5.3	1.69	1.54	253.7	87.28	16.89	189.4	
08/01/85	116.36	10.91	151.5	136.4	106.28	104.21	2.07			27379.7	479.2	1988.1	4.14	679.9	3996.5	40.0	1.28	1.16	191.3	87.63	16.58	185.8	
08/08/85	116.50	13.31	184.8	168.3	106.37	104.24	2.13			27432.6	53.0	1990.0	1.82	268.4	1563.8	15.8	1.40	1.27	211.1	88.02	16.22	186.3	
08/15/85	116.63	15.84	219.9	197.9	106.45	104.21	2.24			27372.8	-59.9	1987.8	0.92	152.8	888.1	8.9	1.57	1.43	236.9	88.23	15.98	182.3	
08/22/85	116.77	18.49	266.7	231.0	106.45	104.17	2.28			27304.9	-67.9	1985.4	0.78	129.2	753.0	7.5	1.70	1.55	258.3	88.29	15.88	179.4	
08/29/85	117.03	21.22	294.7	265.2	106.49	104.30	2.19			27556.8	251.7	1984.4	2.54	420.2	2451.9	24.5	1.86	1.69	280.0	88.40	15.90	178.2	
09/05/85	116.89	26.59	369.2	332.3	106.49	104.28	2.21			27526.2	-28.4	1993.4	0.14	23.3	135.1	1.4	1.46	1.24	206.3	88.44	15.84	179.1	
09/12/85	116.72	23.68	326.8	296.0	106.33	104.25	2.08			27459.9	-68.3	1991.0	0.18	29.9	173.8	1.7	1.54	1.31	217.4	88.36	15.89	178.4	
09/19/85	116.61	20.21	290.6	252.6	106.33	104.24	2.09			27444.8	-15.1	1990.4	0.53	87.9	511.6	5.1	1.29	1.10	181.9	88.35	15.89	178.8	
09/26/85	116.70	18.02	250.2	225.2	106.29	104.19	2.10			27348.1	-95.7	1987.0	0.25	41.5	241.3	2.4	1.32	1.12	186.1	88.38	15.82	178.7	
10/03/85	116.85	19.81	275.1	247.8	106.55	104.34	2.21			27837.0	287.9	1987.3	2.17	359.3	2084.8	20.9	1.29	0.98	162.3	88.54	15.80	177.6	
10/10/85	116.81	22.88	317.4	285.7	106.53	104.39	2.14			27729.6	92.6	2000.6	0.85	141.6	820.5	8.2	1.30	0.99	164.4	88.81	15.77	178.3	
10/17/85	116.86	22.14	307.4	276.7	106.39	104.37	2.02			27706.1	-24.5	1999.7	0.05	8.3	48.3	0.5	1.04	0.79	131.8	88.56	15.81	178.3	
10/24/85	116.83	19.01	284.0	237.6	106.37	104.36	2.02			27851.4	-53.6	1997.8	0.08	13.3	77.2	0.8	1.00	0.76	126.6	88.39	15.95	180.0	
10/31/85	116.44	16.47	228.6	205.8	106.35	104.31	2.04			27587.1	-84.3	1985.5	0.20	33.3	193.1	1.9	0.99	0.75	125.3	88.40	15.91	180.0	
11/07/85	116.37	14.76	204.9	184.5	106.23	104.27	1.98			27496.4	-87.7	1982.4	0.11	18.3	106.2	1.1	0.95	0.67	112.2	88.31	15.96	179.4	
11/14/85	116.29	13.56	188.3	169.5	106.21	104.23	1.98			27412.6	-86.8	1989.3	0.00	0.0	0.0	0.0	0.85	0.48	76.6	88.24	15.99	179.8	
11/21/85	116.18	12.04	167.2	150.5	106.21	104.16	2.05			27286.7	-128.9	1984.7	0.00	0.0	0.0	0.0	0.83	0.59	97.7	88.20	15.98	179.7	
11/28/85	116.07	10.17	141.1	127.0	106.19	104.19	1.98			27332.4	46.7	1986.4	1.10	181.9	1061.9	10.8	0.80	0.57	93.9	88.09	16.09	179.0	
12/05/85	115.97	8.40	118.6	105.0	106.13	104.13	2.00			27217.3	-115.1	1982.3	0.30	49.7	289.6	2.9	0.67	0.58	92.1	88.09	16.03	180.6	
12/12/85	116.02	6.91	96.9	86.3	106.15	104.04	2.12			27033.5	-183.8	1975.7	0.00	0.0	0.0	0.0	0.66	0.55	90.5	87.89	16.14	179.6	
12/19/85	116.07	7.64	106.1	95.5	106.18	104.29	1.88			27545.2	511.8	1994.0	3.83	630.8	3697.2	37.0	0.52	0.43	71.1	88.21	16.08	180.2	
12/26/85	116.07	8.48	117.7	105.9	106.20	104.22	1.98			27391.9	-153.3	1988.5	0.05	8.3	48.3	0.5	0.63	0.52	86.9	88.13	16.08	181.2	
01/02/86	116.09	8.48	117.7	105.9	106.22	104.13	2.09			27226.6													

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 116.2 C1 = 2711769.8 C2 = -66613.29 C3 = 563.7637 C4 = -1.8933				Effective Discharge = 80%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 106.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet													
04/03/86	116.19	12.13	168.4	151.8	108.69	103.98	2.71	26829.3	-297.1	1871.8	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.01	1.89	279.0	88.84	15.04	169.7		
04/10/86	116.10	10.33	143.4	129.1	108.61	103.98	2.66	26883.9	-46.3	1870.3	1.48	239.9	1409.4	14.1	1.89	1.89	200.9	88.83	15.13	167.6					
04/17/86	115.89	8.87	123.2	110.8	108.51	103.84	2.67	26938.9	-246.0	1961.4	0.06	13.1	77.2	0.8	1.48	1.23	201.4	88.73	15.10	168.4					
04/24/86	115.66	7.27	100.9	80.8	106.47	103.71	2.78	26391.3	-247.7	1962.4	0.55	89.9	530.9	5.3	1.94	1.63	286.4	88.81	15.20	167.4					
05/01/86	115.72	5.36	74.9	67.4	106.42	103.53	2.89	26049.6	-341.7	1939.0	0.00	0.0	0.0	0.0	1.81	1.48	241.5	88.38	15.16	167.6					
05/08/86	115.67	3.76	52.1	46.9	106.53	103.83	2.90	26239.2	-189.8	1946.8	3.01	486.8	2905.7	29.1	1.56	1.28	208.8	88.87	15.06	166.1					
05/15/86	115.67	2.18	30.2	27.2	106.49	103.84	2.95	26062.8	-178.4	1940.4	1.01	163.9	975.0	9.7	1.59	1.30	211.5	88.42	15.12	165.7					
05/22/86	115.65	2.22	30.8	27.8	106.52	103.40	3.12	25793.0	-269.8	1930.4	0.80	97.0	679.2	6.8	1.77	1.45	234.7	88.38	15.02	165.7					
05/29/86	115.73	2.84	40.9	36.8	106.55	103.41	3.14	25614.3	21.3	1931.2	1.83	310.5	1863.1	18.8	1.37	1.12	180.7	88.45	14.96	163.9					
06/05/86	115.86	3.81	52.9	47.8	106.54	103.23	3.31	25462.6	-351.7	1918.2	0.10	16.1	96.5	1.0	1.85	1.57	253.1	88.24	14.89	163.2					
06/12/86	115.82	3.28	45.2	40.7	106.52	103.37	3.15	25725.2	282.6	1927.9	3.59	573.9	3485.5	34.7	1.65	1.40	224.2	88.87	14.90	162.4					
06/19/86	115.78	4.88	67.8	61.0	106.51	103.38	3.13	25751.8	26.8	1928.9	2.30	369.5	2220.3	22.2	1.94	1.66	264.9	88.36	15.02	161.2					
06/26/86	115.63	4.39	61.0	54.9	106.49	103.22	3.27	25448.8	-303.3	1917.7	0.27	43.4	290.6	2.8	1.78	1.50	240.6	88.19	15.04	163.7					
07/03/86	115.88	2.74	38.1	34.3	106.48	103.21	3.28	25427.1	-21.4	1918.9	1.86	297.2	1795.5	18.0	1.43	1.30	208.0	88.41	14.90	162.9					
07/10/86	115.81	5.98	78.6	70.7	106.48	103.02	3.44	25072.0	-355.1	1903.7	0.08	12.8	77.2	0.8	1.92	1.75	278.1	88.31	14.71	160.3					
07/17/86	115.73	4.76	66.1	59.5	106.53	102.98	3.67	24753.5	-318.5	1891.7	0.35	55.5	337.9	3.4	1.93	1.78	278.6	88.21	14.84	158.2					
07/24/86	115.66	3.86	53.6	48.3	106.90	102.78	3.83	24602.7	-150.9	1886.0	0.92	145.0	888.1	8.9	1.37	1.25	196.5	88.18	14.90	156.5					
07/31/86	115.67	3.10	43.0	38.7	106.87	102.86	3.82	24751.5	148.9	1891.7	2.81	441.6	2712.6	27.1	1.42	1.29	203.1	88.13	14.73	155.6					
08/07/86	115.77	2.18	30.2	27.2	106.98	102.83	3.92	24698.0	-53.5	1888.6	1.59	250.8	1534.9	15.3	1.32	1.20	188.4	88.11	14.72	157.4					
08/14/86	115.69	4.27	59.3	53.4	106.82	103.04	3.77	25108.0	410.0	1908.0	4.36	686.6	4206.9	42.1	1.50	1.37	214.9	88.33	14.71	157.1					
08/21/86	115.63	6.79	90.4	72.4	106.89	103.03	3.86	25081.5	-28.5	1904.0	1.70	289.9	1841.1	18.4	1.57	1.43	228.8	88.40	14.63	158.3					
08/28/86	116.06	7.79	108.2	97.3	106.96	102.98	3.97	24997.7	-83.7	1900.8	1.35	215.8	1312.9	13.1	1.75	1.59	262.7	88.65	14.33	157.3					
09/04/86	116.06	8.56	118.6	108.9	106.91	102.84	4.07	24719.1	-278.8	1890.4	0.00	0.0	0.0	0.0	1.72	1.48	231.8	88.53	14.31	153.9					
09/11/86	116.09	8.56	118.6	108.9	106.96	102.86	3.90	24842.4	223.3	1898.8	3.06	482.1	2953.9	29.5	1.64	1.54	242.4	88.65	14.31	152.8					
09/18/86	116.11	6.71	121.0	108.9	106.81	102.96	3.85	24954.7	12.2	1896.3	1.50	237.4	1448.0	14.5	1.45	1.23	195.0	88.66	14.30	153.5					
09/25/86	116.14	9.11	126.5	113.8	106.86	103.18	3.68	25363.1	408.5	1914.5	3.87	580.9	3542.8	35.4	1.25	1.08	168.2	88.56	14.62	153.5					
10/02/86	116.14	9.51	132.0	119.8	106.91	103.37	3.64	26730.7	387.5	1928.1	3.25	518.5	3137.3	31.4	1.18	0.90	143.1	88.84	14.53	158.1					
10/09/86	116.13	9.50	133.2	119.8	106.87	103.29	3.68	26586.8	-141.8	1922.9	0.21	33.7	202.7	2.0	1.14	0.87	139.2	89.07	14.22	158.2					
10/16/86	116.06	9.35	129.8	116.8	106.82	103.28	3.64	26556.1	-29.7	1921.8	0.00	144.2	868.8	8.7	1.19	0.90	144.8	89.03	14.25	154.5					
10/23/86	116.02	8.63	119.9	107.9	106.87	103.21	3.66	26422.8	-136.3	1918.8	0.24	36.4	231.7	2.3	1.07	0.81	130.2	89.03	14.17	154.7					
10/30/86	115.92	7.84	106.1	96.5	106.78	103.20	3.58	26404.3	-18.5	1918.1	0.99	143.8	888.8	8.7	0.93	0.71	112.9	89.06	14.15	153.5					
11/06/86	115.83	6.27	87.1	78.4	106.84	103.11	3.83	26229.8	-174.8	1908.6	0.08	8.8	67.8	0.8	0.97	0.89	110.0	88.85	14.26	153.1					
11/13/86	115.76	5.07	70.4	63.4	106.83	103.01	3.82	26037.7	-182.1	1902.4	0.00	0.0	0.0	0.0	0.90	0.84	101.7	88.89	14.32	153.8					
11/20/86	115.63	4.18	67.7	51.9	106.41	102.89	3.62	24823.1	-214.8	1884.3	0.00	0.0	0.0	0.0	1.00	0.71	112.8	88.57	14.32	153.9					
11/27/86	115.53	2.79	38.8	34.9	106.33	102.78	3.55	24906.3	-214.8	1886.3	0.00	0.0	0.0	0.0	0.98	0.81	96.4	88.49	14.29	153.3					
12/04/86	115.48	1.67	26.0	23.4	106.27	102.65	3.62	24370.4	-237.9	1877.3	0.16	25.2	164.5	1.8	1.04	0.86	135.7	88.19	14.47	152.3					
12/11/86	115.42	1.47	20.4	18.4	106.21	102.54	3.67	24162.6	-207.8	1869.4	0.00	0.0	0.0	0.0	0.0	0.56	0.48	72.7	88.13	14.41	153.4				
12/18/86	115.34	1.04	14.5	13.0	106.24	102.62	3.72	24122.1	-40.5	1867.8	0.87	135.5	838.8	8.4	0.35	0.29	45.3	87.90	14.62	152.2					
12/25/86	115.28	0.57	7.9	7.1	106.27	102.41	3.86	23911.9	-210.2	1859.8	0.08	12.5	77.2	0.8	0.59	0.49	78.2	87.78	14.85	154.3					
01/01/87	115.40	0.26	3.7	3.3	106.31	102.29	4.02	23692.4	-219.5	1851.4	0.14	21.7	135.1	1.4	0.77	0.59	91.9	87.77	14.82	154.0					
01/08/87	115.46	0.88	12.2	11.0	106.36	102.42	3.93	23932.3	239.9	1860.6	2.83	436.8	2731.9	27.3	0.70	0.54	83.2	87.78	14.86	151.9					
01/15/87	115.41	1.28	17.8	16.0	106.33	102.36	3.94	23872.1	-90.2	1858.3	0.85	131.8	820.5	8.2	0.52	0.40	62.1	87.79	14.59	154.1					
01/22/87	115.35	0.94	13.1	11.8	106.32	102.27	4.05	23856.3	-215.8	1850.0	0.07	10.8	67.6	0.7	0.72	0.55	85.9	87.45	14.82	153.2					
01/29/87	115.30	0.59	8.2	7.4	106.31	102.15	4.16	23427.7	-228.8	1841.2	0.28	43.2	270.3	2.7	1.07	0.82	127.0	87.56	14.59	154.8					
02/05/87	115.25	0.35	4.9	4.4	106.23	102.03	4.20	23206.7	-219.1	1832.7	0.08	12.3	77.2	0.8	0.80	0.55	84.7	87.63	14.40	151.8					
02/12/87	115.41	0.15	2.1	1.9	106.41	102.29	4.12	23687.4	478.7	1851.2	4.40	672.0	4247.5	42.5	0.94	0.58	88.5	87.80	14.49	149.1					
02/19/87	115.73	0.94	13.1	11.8	106.81	102.26	4.35	23630.4	-57.1	1849.0	1.16	178.9	1119.8	11.2	1.01	0.70	107.5	88.00	14.25	151.5					
02/26/87	115.69	3.81	52.9	47.8	106.53	102.18	4.36	23483.8	-146.7	1843.3	0.45	69.3	434.4	4.3	1.12	0.77	119.1	87.83	14.35	148.9					
03/05/87	115.67	3.38	46.7	42.0	106.49	102.06	4.43	23283.0	-220.8	1834.8	0.00	0.0	0.0	0.0	1.01	0.74	113.3	87.94	14.12	149.4					
03/12/87	115.68	3.18	43.8	39.4	106.49	101.97	4.52	23098.1	-184.9	1828.4	0.55	84.1	530.9	5.3	1.32	0.98	147.3	87.83	14.14	146.3					
03/19/87	115.52	3.05	42.3	38.1	106.41	101.80	4.61	22901.0	-287.0	1818.8	0.00	0.0	0.0	0.0	1.70	1.24	189.1	87.61	14.19	146.0					
03/26/87	115.41	1.75	24.3	21.9	106.39	101.84	4.75	22510.3	-290.7	1808.4	0.00	0.0	0.0	0.0	1.51	1.10	186.9	87.67	14.07	145.7					
04/02/87	115.34	0.94	13.1	11.8	106.28	101.81	4.77	22286.7	-241.8	1795.8	0.45	67.7	434.4	4.3	1.44	1.21	182.0	87.31	14.20	143.5					
04/09/87	115.23	0.54	7.5	6.8	106.16	101.30	4.86	21891.2	-377.4	1780.8	0.00	0.0	0.0	0.0	1.91	1.60	240.1	87.33	13.97	144.1					
04/16/87	115.12	0.09	1.2	1.1	106.09	101.11	4.98	21554.5	-336.7	1767.3	0.03	4.5													

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -89613.29 C3 = 563.7937 C4 = -1.8903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet													
	ft	cfs	ac-feet	ac-feet					cfs	ac-feet	ac-feet	ac-feet													
07/02/87	114.28				106.14	100.49	5.66		20473.6	564.6	1723.2	5.73	811.6	5631.4	55.3	1.32	1.20	170.1	86.51	13.97	132.2				
07/09/87	114.20				106.21	100.49	5.72		20481.0	7.4	1723.5	2.36	338.9	2278.2	22.8	1.67	1.52	218.2	86.56	13.93	136.0				
07/16/87	114.10				106.17	100.50	5.67		20492.7	11.7	1724.0	2.65	390.6	2568.1	25.6	1.98	1.80	258.8	86.66	13.84	135.7				
07/23/87	114.06				106.13	100.40	5.73		20327.1	-165.6	1717.1	0.95	136.5	917.1	9.2	1.35	1.23	176.5	86.61	13.90	134.8				
07/30/87	114.15				106.09	100.28	5.81		20117.8	-209.3	1708.4	0.64	91.6	617.8	6.2	1.33	1.21	173.2	86.66	13.82	133.9				
08/06/87	114.24				106.11	100.22	5.89		20018.0	-99.8	1704.3	1.36	192.2	1303.2	13.0	1.34	1.22	173.8	86.72	13.61	131.5				
08/13/87	114.47				106.09	100.44	5.65		20398.0	380.0	1720.1	4.30	610.7	4160.9	41.5	1.10	1.00	142.2	86.84	13.60	130.1				
08/20/87	114.54				106.28	100.26	6.00		20079.4	-318.6	1706.8	0.12	17.2	115.6	1.2	1.57	1.43	204.8	86.93	13.32	132.2				
08/27/87	114.58				106.28	100.08	6.18		19789.7	-309.7	1693.9	0.29	41.2	279.9	2.8	1.74	1.58	225.2	87.28	12.90	128.5				
09/03/87	114.61				106.21	100.02	6.19		19676.4	-93.3	1689.9	1.53	216.0	1477.0	14.8	1.68	1.43	201.6	87.39	12.63	122.4				
09/10/87	114.61				106.07	99.89	6.18		19456.8	-219.6	1680.7	0.40	66.3	366.1	3.9	1.33	1.13	159.2	87.40	12.49	120.6				
09/17/87	114.51				105.95	99.72	6.23		19171.8	-285.0	1668.5	0.01	1.4	9.7	0.1	1.41	1.20	167.9	87.30	12.42	118.6				
09/24/87	114.37				105.85	99.54	6.31		18970.4	-301.5	1655.6	0.00	0.0	0.0	0.0	1.58	1.33	184.4	87.18	12.38	117.1				
10/01/87	114.28				105.77	99.45	6.32		18727.9	-142.5	1649.5	0.94	129.7	907.4	9.1	1.58	1.20	165.7	87.14	12.32	115.6				
10/08/87	114.17				105.61	99.30	6.31		18476.2	-251.6	1638.8	0.00	0.0	0.0	0.0	1.31	1.00	138.9	87.09	12.21	114.8				
10/15/87	114.06				105.53	99.21	6.32		18335.4	-140.8	1632.5	0.89	94.2	696.1	6.7	1.24	0.94	128.7	86.91	12.31	113.0				
10/22/87	113.86				105.47	99.10	6.37		18154.7	-180.7	1624.8	0.44	59.9	424.7	4.2	1.27	0.97	131.3	86.81	12.30	113.5				
10/29/87	113.81				105.37	98.96	6.41		17928.5	-226.2	1614.8	0.07	9.5	67.6	0.7	1.20	0.91	123.5	86.86	12.40	112.9				
11/06/87	113.46				105.34	98.89	6.45		17814.1	-114.4	1609.8	0.70	94.2	675.7	6.8	1.07	0.78	102.2	86.91	11.99	113.1				
11/12/87	113.33				105.14	98.76	6.38		17904.1	-209.9	1600.3	0.00	0.0	0.0	0.0	1.08	0.75	100.9	86.33	12.43	109.0				
11/19/87	113.14				105.09	98.64	6.45		17404.6	-199.5	1591.4	0.00	0.0	0.0	0.0	0.82	0.65	87.1	86.07	12.57	112.4				
11/26/87	113.00				105.05	98.51	6.54		17199.3	-205.3	1582.2	0.00	0.0	0.0	0.0	0.80	0.70	82.3	86.17	12.34	113.0				
12/03/87	112.78				104.97	98.37	6.60		16995.4	-213.9	1572.5	0.08	10.5	77.2	0.8	1.05	0.87	114.9	85.78	12.58	110.3				
12/10/87	112.91				104.91	98.29	6.62		16850.9	-134.6	1566.4	0.14	18.3	135.1	1.4	0.99	0.32	42.4	85.92	12.37	111.8				
12/17/87	112.90				105.11	98.53	6.58		17237.5	386.6	1583.9	4.01	523.4	3871.0	36.7	0.81	0.51	66.1	85.90	12.57	108.4				
12/24/87	112.80				105.15	98.41	6.74		17042.8	-194.8	1575.1	0.10	13.2	96.5	1.0	0.88	0.73	96.4	85.84	12.57	112.5				
12/31/87	112.57				105.11	98.40	6.71		17028.3	-16.5	1574.4	1.06	137.8	1013.6	10.1	0.82	0.40	62.6	85.94	12.48	111.9				
01/07/88	112.42				105.07	98.30	6.77		16876.8	-149.5	1567.8	0.12	15.7	115.8	1.2	0.85	0.42	55.6	85.82	12.48	110.8				
01/14/88	112.29				104.99	98.21	6.78		16728.0	-148.8	1560.8	0.10	13.1	96.5	1.0	0.82	0.40	52.3	85.76	12.45	110.5				
01/21/88	112.15				104.85	98.09	6.86		16548.1	-181.9	1552.5	0.00	0.0	0.0	0.0	0.72	0.55	72.1	85.57	12.52	109.6				
01/28/88	112.01				104.81	98.00	6.91		16403.0	-143.1	1545.9	0.19	24.6	163.4	1.8	0.80	0.46	59.6	85.37	12.63	109.6				
02/04/88	111.82				104.65	97.88	6.97		16216.9	-186.1	1537.3	0.03	3.9	29.0	0.3	0.90	0.62	80.0	85.39	12.49	110.3				
02/11/88	111.68				104.75	97.79	6.96		16089.7	-127.2	1531.4	0.39	50.0	376.5	3.8	0.82	0.57	72.5	85.36	12.43	108.4				
02/18/88	111.55				104.69	97.67	7.02		15894.5	-195.1	1522.3	0.01	1.3	9.7	0.1	1.01	0.70	98.9	85.25	12.42	107.6				
02/25/88	111.42				104.71	97.65	7.06		15687.8	-26.7	1521.1	1.01	128.1	975.0	9.7	0.88	0.48	57.8	85.05	12.90	106.8				
03/03/88	111.23				104.81	97.54	7.07		15704.9	-162.9	1513.4	0.40	50.7	366.1	3.9	1.18	0.68	109.2	84.94	12.80	108.2				
03/10/88	111.20				104.81	97.50	7.11		15647.6	-57.3	1510.7	1.09	137.5	1062.2	10.6	1.08	0.77	97.8	85.00	12.51	107.7				
03/17/88	111.09				104.81	97.41	7.20		15504.5	-143.1	1504.0	0.43	54.1	415.1	4.2	1.03	0.75	94.7	84.76	12.65	106.7				
03/24/88	110.98				104.53	97.23	7.30		15241.5	-263.0	1491.5	0.00	0.0	0.0	0.0	1.70	1.24	155.5	84.79	12.44	107.5				
03/31/88	110.70				104.38	97.06	7.32		14988.3	-255.2	1479.3	0.00	0.0	0.0	0.0	1.44	1.21	150.3	84.62	12.44	104.9				
04/07/88	110.53				104.41	96.92	7.49		14773.0	-213.3	1469.0	0.26	32.1	251.0	2.5	1.39	1.17	143.9	84.57	12.35	103.9				
04/14/88	110.32				104.31	96.72	7.59		14491.2	-281.8	1455.2	0.02	2.4	19.3	0.2	1.77	1.49	182.0	84.52	12.21	102.5				
04/21/88	110.06				104.18	96.52	7.66		14189.1	-302.1	1440.4	0.00	0.0	0.0	0.0	1.98	1.86	201.7	84.12	12.39	100.4				
04/28/88	109.82				104.05	96.31	7.74		13895.3	-293.6	1425.8	0.00	0.0	0.0	0.0	1.86	1.61	192.9	83.79	12.52	100.9				
05/05/88	109.62				103.95	96.13	7.82		13635.6	-259.7	1412.6	0.53	63.0	511.6	5.1	2.33	1.91	227.0	83.80	12.32	100.8				
05/12/88	109.41				103.89	96.03	7.86		13500.4	-135.2	1405.9	1.08	124.8	1023.3	10.2	1.78	1.48	171.8	83.58	12.45	98.4				
05/19/88	109.29				103.82	95.89	7.93		13299.3	-201.1	1396.7	0.83	97.2	801.2	8.0	2.16	1.77	207.5	83.36	12.52	96.9				
05/26/88	109.20				103.77	95.89	7.88		13305.6	6.3	1396.0	2.25	261.7	2172.0	21.7	1.87	1.53	178.3	83.28	12.61	96.8				
06/02/88	109.06				103.84	95.86	7.98		13268.5	-39.0	1394.0	2.01	233.8	1940.3	19.4	1.95	1.68	192.6	83.43	12.44	99.5				
06/09/88	109.06				103.89	95.87	8.02		13274.9	8.4	1394.5	2.03	235.8	1959.6	19.8	1.51	1.28	149.1	83.36	12.51	97.9				
06/16/88	108.88				103.85	95.75	8.10		13113.5	-161.4	1386.2	1.00	116.2	965.3	9.7	1.91	1.62	196.7	83.39	12.36	96.6				
06/23/88	108.68				103.75	95.67	8.06		12999.9	-113.6	1380.4	1.09	125.9	1052.2	10.5	1.56	1.33	153.2	83.54	12.13	96.8				
06/30/88	108.48				103.67	95.56	8.11		12847.3	-152.7	1372.5	1.18	135.7	1139.1	11.4	1.86	1.78	205.2	83.28	12.30	94.6				
07/07/88	108.40				103.67	95.70	7.67		13033.1	185.8	1362.1	3.40	388.9	3282.1	32.8	1.95	1.23	140.5	83.45	12.25	95.4				
07/14/88	108.38				103.79	95.80	7.99		13175.5	142.4	1389.4	2.78	320.2	2663.6	26.8	1.04	0.85	109.0	83.45	12.35	95.6				
07/21/88	108.31				103.80	95.73	8.07		13080.9	-94.6	1384.5	1.43	165.6	1380.4	13.8	1.88	1.53	177.0	83.44	12.29	97.0				
07/28/88	108.18				103.72	95.64	8.08		12961.4	-119.5	1378.4	1.35	155.8	1303.2	13.0	1.93	1.67	192.1	83.37	12.27	96.2				
08/04/88	107.96				103.63	95.57	8.06		12857.4	-104.0	1373.0	1.46	167.7	1409.4	14.1	1.82	1.68</								

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -69613.29 C3 = 593.7937 C4 = -1.6903						Hmin= 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.388						Drainage area = 11564 Runoff Coeff. = 0.01				Leakance = 8.071E-04 1/day			
	Effective Discharge = 80%		Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Geneva Discharge cfs	Geneva Discharge ac-feet	Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etona Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Discharge ac-feet	Brooklyn Discharge cfs																		
10/06/88	108.49		103.75	95.29	8.46		12475.0	-205.0	1363.0	0.00	0.0	0.0	0.0	1.41	1.07	121.8	84.63	10.85	83.3	
10/13/88	108.65		103.81	95.27	8.54		12455.8	-19.2	1362.0	1.30	146.6	1254.9	12.5	1.13	0.86	98.8	84.78	10.51	81.4	
10/20/88	109.01		104.07	95.48	8.59		12736.5	280.7	1366.7	3.49	393.2	3369.0	33.7	0.77	0.59	85.9	84.94	10.54	80.3	
10/27/88	109.03		103.95	95.37	8.58		12563.9	-152.6	1356.7	0.18	20.5	173.8	1.7	1.06	0.82	83.5	84.95	10.42	81.4	
11/03/88	108.98		103.83	95.25	8.58		12425.9	-157.9	1350.4	0.00	0.0	0.0	0.0	0.97	0.99	78.0	85.04	10.22	80.0	
11/10/88	109.06		103.89	95.31	8.58		12509.1	83.1	1354.8	1.92	216.1	1853.4	18.5	0.92	0.95	73.5	85.04	10.28	77.9	
11/17/88	109.06		103.81	95.27	8.54		12444.2	-84.9	1351.4	0.69	66.6	569.5	5.7	0.73	0.52	58.5	84.90	10.37	78.7	
11/24/88	109.06		103.75	95.18	8.57		12334.4	-109.8	1345.6	0.24	27.0	231.7	2.3	0.75	0.53	80.0	84.88	10.30	79.2	
12/01/88	109.06		103.71	95.07	8.64		12182.6	-151.9	1337.6	0.00	0.0	0.0	0.0	0.79	0.96	73.5	84.78	10.31	78.3	
12/08/88	109.02		103.66	94.97	8.69		12042.2	-140.4	1330.1	0.21	23.4	202.7	2.0	0.95	0.79	87.9	84.63	10.33	77.9	
12/15/88	108.92		103.56	94.87	8.69		11920.7	-121.6	1323.5	0.17	18.8	164.1	1.6	0.70	0.56	84.4	84.74	10.13	77.6	
12/22/88	108.89		103.47	94.77	8.70		11777.2	-143.5	1315.8	0.00	0.0	0.0	0.0	0.74	0.61	87.7	84.69	10.08	75.8	
12/29/88	108.79		103.47	94.73	8.74		11733.1	-44.0	1313.4	0.74	81.1	714.3	7.1	0.88	0.82	67.4	84.54	10.19	74.9	
01/05/89	108.81		103.43	94.72	8.71		11720.4	-12.7	1312.7	0.91	99.6	878.5	8.8	0.54	0.42	48.5	84.52	10.21	75.8	
01/12/89	108.76		103.41	94.66	8.75		11644.5	-75.9	1308.6	0.43	47.0	415.1	4.2	0.81	0.47	51.4	84.64	10.02	75.7	
01/19/89	108.69		103.38	94.57	8.81		11519.4	-125.1	1301.8	0.03	3.3	29.0	0.3	0.85	0.50	54.8	84.59	9.96	74.1	
01/26/89	108.61		103.35	94.49	8.86		11414.9	-104.5	1296.1	0.14	15.2	135.1	1.4	0.67	0.44	47.8	84.37	10.12	73.4	
02/02/89	108.56		103.31	94.39	8.92		11282.7	-132.2	1288.8	0.00	0.0	0.0	0.0	0.78	0.54	58.1	84.22	10.16	74.1	
02/09/89	108.50		103.37	94.45	8.92		11364.0	81.4	1293.3	1.84	197.6	1778.2	17.8	0.81	0.56	80.0	84.30	10.15	74.0	
02/16/89	108.65		103.49	94.57	8.92		11517.9	153.9	1301.7	2.43	261.9	2345.8	23.5	0.77	0.53	57.3	84.50	10.07	74.2	
02/23/89	108.59		103.45	94.50	8.95		11431.5	-86.4	1297.0	0.32	34.7	308.9	3.1	0.67	0.46	50.1	84.35	10.15	74.1	
03/02/89	108.52		103.36	94.39	8.97		11283.4	-148.2	1288.6	0.01	1.1	9.7	0.1	0.95	0.69	75.0	84.38	10.01	74.4	
03/09/89	108.52		103.41	94.41	9.00		11314.0	30.5	1290.5	1.42	152.5	1370.8	13.7	0.80	0.58	82.7	84.42	9.99	72.9	
03/16/89	108.61		103.41	94.43	8.98		11333.8	19.8	1291.8	1.48	157.0	1409.4	14.1	1.00	0.73	78.5	84.31	10.12	72.8	
03/23/89	108.82		103.47	94.42	9.05		11330.4	-3.4	1291.4	1.21	130.2	1169.1	11.7	0.91	0.66	71.5	84.72	9.71	73.8	
03/30/89	108.76		103.53	94.38	9.15		11281.5	-48.9	1288.7	1.32	142.1	1274.2	12.7	1.47	1.23	132.9	84.63	9.75	70.8	
04/06/89	108.75		103.47	94.22	9.26		11084.3	-217.1	1276.7	0.00	0.0	0.0	0.0	1.82	1.36	146.1	84.64	9.57	71.0	
04/13/89	108.63		103.41	94.04	9.37		10843.3	-221.0	1264.3	0.00	0.0	0.0	0.0	1.70	1.43	151.9	84.56	9.48	69.0	
04/20/89	108.60		103.27	93.87	9.30		10755.5	-87.8	1259.3	0.91	95.9	878.5	8.8	1.41	1.18	124.8	84.51	9.47	67.7	
04/27/89	108.39		103.13	93.79	9.34		10629.0	-226.5	1246.5	0.00	0.0	0.0	0.0	1.85	1.52	159.2	84.41	9.39	67.3	
05/04/89	108.38		103.07	93.70	9.37		10418.8	-110.1	1240.1	0.67	69.6	646.6	6.5	1.41	1.16	120.1	84.18	9.63	66.1	
05/11/89	108.26		103.06	93.52	9.56		10190.2	-228.6	1227.0	0.00	0.0	0.0	0.0	1.91	1.57	161.9	83.95	9.57	66.7	
05/18/89	108.35		102.96	93.52	9.44		10182.3	2.1	1227.1	1.81	185.1	1747.3	17.5	1.60	1.31	134.1	83.89	9.62	66.3	
05/25/89	108.28		103.03	93.41	9.62		10055.7	-136.5	1219.1	0.47	48.1	453.7	4.5	1.48	1.20	122.4	83.78	9.63	66.7	
06/01/89	108.15		102.91	93.23	9.68		9946.8	-208.2	1206.9	0.02	2.0	19.3	0.2	1.98	1.43	145.1	83.77	9.47	66.3	
06/08/89	108.01		102.91	93.18	9.73		9781.9	-84.7	1203.0	1.56	158.9	1496.3	15.0	2.00	1.70	171.0	83.67	9.52	64.6	
06/15/89	107.88		102.86	93.06	9.78		9657.1	-124.8	1195.6	0.74	74.2	714.3	7.1	1.66	1.41	141.5	83.65	9.43	64.7	
06/22/89	107.69		102.73	92.94	9.79		9490.4	-166.7	1185.7	0.48	45.8	444.1	4.4	1.81	1.54	153.3	83.47	9.47	63.7	
06/29/89	107.49		102.57	92.73	9.84		9242.1	-248.3	1170.7	0.02	2.0	19.3	0.2	2.08	1.89	187.0	83.17	9.55	63.4	
07/06/89	107.32		102.47	92.55	9.82		9034.0	-208.1	1157.9	0.28	27.3	270.3	2.7	1.97	1.79	174.9	83.07	9.47	63.2	
07/13/89	107.21		102.46	92.51	9.95		8985.7	-48.3	1155.0	1.51	145.7	1457.7	14.6	1.87	1.52	146.6	83.02	9.49	62.0	
07/20/89	107.10		102.49	92.80	9.89		9091.4	105.8	1161.5	2.89	278.2	2789.8	27.9	1.58	1.44	136.4	82.99	9.41	61.9	
07/27/89	107.20		102.59	92.53	10.06		9014.6	-76.8	1156.7	1.12	108.4	1081.2	10.8	1.51	1.37	133.0	83.12	9.41	63.0	
08/03/89	107.28		102.69	92.52	10.17		9000.5	-14.1	1155.9	1.58	152.3	1525.2	15.3	1.37	1.25	120.2	83.20	9.32	61.5	
08/10/89	107.19		102.71	92.66	10.03		9193.7	193.2	1167.7	3.39	326.5	3272.5	32.7	1.20	1.09	105.2	83.28	9.40	60.9	
08/17/89	107.27		102.71	92.66	10.05		9169.1	-24.8	1166.2	1.36	132.3	1312.9	13.1	1.22	1.11	108.0	83.33	9.34	62.0	
08/24/89	107.40		102.83	92.67	10.16		9178.9	7.8	1166.7	1.70	165.2	1641.1	16.4	1.27	1.18	112.3	83.65	9.02	61.5	
08/31/89	107.47		102.77	92.64	10.13		9144.0	-32.9	1164.7	1.20	116.7	1158.4	11.6	1.23	1.05	101.8	83.74	8.90	59.5	
09/07/89	107.34		102.86	92.73	10.13		9245.2	101.2	1170.9	2.51	243.6	2423.0	24.2	1.31	1.11	106.1	83.89	8.83	58.6	
09/14/89	107.44		102.77	92.64	10.13		9144.3	-100.9	1164.7	0.71	69.3	686.4	6.9	1.43	1.22	118.8	83.86	8.78	58.4	
09/21/89	107.39		102.89	92.69	10.20		9197.3	53.0	1167.9	1.85	179.6	1786.9	17.9	1.05	0.89	86.6	83.63	8.86	57.9	
09/28/89	107.40		102.91	92.73	10.18		9251.5	54.2	1171.2	1.89	183.9	1824.5	18.2	1.21	0.92	89.5	84.29	8.45	58.4	
10/05/89	107.93		103.31	92.82	10.36		9474.4	222.8	1184.7	3.00	292.8	2896.0	29.0	0.58	0.44	43.0	84.52	8.41	56.9	
10/12/89	108.08		103.29	92.82	10.47		9355.3	-119.1	1177.5	0.05	4.9	46.3	0.5	0.91	0.69	68.3	84.80	8.02	56.3	
10/19/89	108.17		103.21	92.72	10.49		9237.6	-117.7	1170.4	0.13	12.8	125.5	1.3	1.06	0.80	78.3	84.85	7.87	53.4	
10/26/89	108.29		103.11	92.71	10.40		9220.2	-17.4	1169.3	0.60	58.5	579.2	5.8	0.40	0.30	29.8	84.87	7.84	52.0	
11/02/89	108.58		103.30	92.72	10.58		9229.6	9.4	1169.9	1.01	98.4	975.0	9.7	0.68	0.48	47.0	85.14	7.58	51.8	
11/09/89	108.69		103.21	92.67	10.54		9175.3	-54.3	1166.6	0.31	30.2	299.3	3.0	0.54	0.38	37.4	85.21	7.48	50.1	
11/16/89	108.90		103.21	92.67	10.54		9180.0	4.7	1166.9	1.04	101.1	1003.9	10.0	0.63	0.59	57.3	85.26	7.41	49.2	
11/23/89	108.85		103.11	92.59	10.52		9086.3	-83.7	1161.1	0.00	0.0	0.0	0.0	0.65	0.46	44.9	85.20	7.39	48.8	
11/30/89	108.98		103.15	92.64	10.51		9138.2	52.0	1164.3	1.51	146.1	1457.7	14.6	0.75	0.62	60.2	85.25	7.39	48.5	
12/07/89	10																			

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711789.8 C2 = -88613.29 C3 = 563.7937 C4 = -1.6903				Hmin= 105.6 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.366				Geneva Volume at Start of Week ac-feet	Change In Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Geneva Lake Evap. ac-feet	Leakage = 8.071E-04 1/day				
	Effective Discharge = 90%		Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Geneva Discharge cfs	Geneva Discharge ac-feet	Geneva Surface Precip. ac-feet						Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week				Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs																					
01/04/70	109.88				103.31	92.82	10.49	9347.2	10.3	1177.0	0.89	87.3	859.1	9.6	0.48	0.38	37.0	86.47	7.34	48.8			
01/11/70	110.26				103.43	92.95	10.48	9509.4	162.2	1188.8	2.33	228.5	2249.2	22.5	0.53	0.41	40.0	85.85	7.31	48.8			
01/18/70	110.57				103.55	92.95	10.80	9508.9	-0.5	1188.8	0.65	64.3	827.5	6.3	0.26	0.22	22.1	85.97	6.99	49.0			
01/25/70	110.78				103.51	92.88	10.83	9426.0	-80.9	1181.9	0.10	9.9	96.5	1.0	0.59	0.45	44.9	85.99	6.89	46.8			
02/01/70	111.58				103.64	92.84	10.80	9372.2	-55.7	1178.5	0.35	34.5	337.9	3.4	0.70	0.48	47.6	85.94	6.90	46.0			
02/08/70	111.95				103.77	93.34	10.43	9979.5	807.2	1214.7	8.47	835.4	8245.7	82.5	0.86	0.46	44.7	86.08	6.48	45.9			
02/15/70	112.67				103.90	93.26	10.64	9880.6	-98.8	1208.9	0.02	2.0	19.3	0.2	0.81	0.56	56.6	86.06	6.38	44.5			
02/22/70	113.09				104.03	93.28	10.75	9904.1	23.5	1210.2	1.13	113.8	1090.8	10.9	0.93	0.57	57.7	87.01	6.28	43.6			
03/01/70	113.49				104.17	93.22	10.95	9834.0	-70.1	1206.1	0.30	30.3	289.6	2.9	0.82	0.60	60.4	87.24	5.99	42.9			
03/08/70	114.02				104.35	93.29	11.08	9910.7	76.8	1210.6	1.64	164.8	1583.1	15.8	0.98	0.63	63.1	87.37	5.92	40.8			
03/15/70	114.32				104.32	93.24	11.08	9850.8	-59.9	1207.1	0.63	63.6	808.2	6.1	1.21	0.88	89.1	87.31	5.93	40.5			
03/22/70	114.56				104.31	93.15	11.16	9739.1	-111.7	1200.5	0.08	8.0	57.9	0.6	1.06	0.77	77.8	87.42	5.73	40.4			
03/29/70	115.31				104.87	93.50	11.17	10183.8	424.5	1225.4	5.22	522.2	5039.0	50.4	1.30	1.09	109.2	87.86	5.84	38.9			
04/05/70	115.81	0.39	5.5	4.9	104.87	93.58	11.29	10270.8	107.2	1231.6	2.19	223.6	2114.1	21.1	1.19	1.00	102.1	88.05	5.53	40.4			
04/12/70	116.11	4.76	68.1	59.5	104.97	93.58	11.41	10242.3	-28.6	1230.0	0.68	68.8	656.4	6.6	1.48	1.23	125.9	88.18	5.40	38.5			
04/19/70	116.14	9.03	125.4	112.8	105.06	93.51	11.55	10175.5	-66.8	1226.1	0.00	0.0	0.0	0.0	1.65	1.39	142.1	88.36	5.15	37.5			
04/26/70	116.12	9.51	132.0	118.8	105.09	93.48	11.81	10150.3	-25.2	1224.6	0.11	11.2	106.2	1.1	1.44	1.18	120.6	88.29	5.20	35.7			
05/03/70	115.99	9.19	127.6	114.8	105.06	93.43	11.83	10089.4	-60.9	1221.1	0.00	0.0	0.0	0.0	1.67	1.37	139.8	88.08	5.36	36.0			
05/10/70	115.78	7.20	99.9	89.9	105.01	93.35	11.86	9983.5	-105.9	1214.9	0.05	5.1	48.3	0.5	1.97	1.62	184.4	87.85	5.50	37.0			
05/17/70	115.51	4.39	61.0	54.9	104.98	93.51	11.45	10180.9	197.4	1228.4	3.25	329.0	3137.3	31.4	2.17	1.78	180.2	87.78	5.75	37.8			
05/24/70	115.84	2.66	35.4	31.8	105.17	93.43	11.74	10081.8	-99.3	1220.8	0.39	39.9	378.5	3.8	1.81	1.32	134.9	87.79	5.84	39.9			
06/01/70	115.70	2.94	39.5	36.5	105.31	93.63	11.88	10328.4	248.8	1234.9	3.24	329.6	3127.7	31.3	1.28	1.09	110.7	87.71	5.92	38.9			
06/07/70	115.82	3.47	48.2	43.4	105.26	93.62	11.83	10314.6	-13.8	1234.2	1.11	114.2	1071.5	10.7	1.61	1.37	140.8	87.86	5.95	41.3			
06/14/70	115.45	2.85	36.7	33.1	105.25	93.51	11.74	10176.9	-137.7	1226.2	0.18	18.5	173.8	1.7	1.71	1.45	149.5	87.50	6.01	41.5			
06/21/70	115.41	1.21	16.8	15.2	105.20	93.42	11.78	10071.9	-105.0	1220.1	0.61	62.3	588.9	5.9	1.89	1.44	146.8	87.37	6.05	41.8			
06/28/70	115.73	0.84	13.1	11.8	105.57	93.69	11.88	10402.0	330.1	1239.2	4.63	470.7	4469.5	44.7	1.68	1.53	155.4	87.45	6.23	41.7			
07/05/70	115.68	3.81	62.9	47.6	105.70	93.65	12.06	10356.3	-45.7	1236.6	0.90	92.9	868.8	8.7	1.81	1.47	151.3	87.57	6.08	43.8			
07/12/70	115.78	3.26	45.2	40.7	105.79	93.60	11.99	10537.9	181.6	1247.0	2.80	288.5	2702.9	27.0	1.41	1.28	132.2	87.54	6.26	42.5			
07/19/70	115.71	4.15	57.7	41.8	105.93	93.69	12.24	10407.8	-130.3	1239.5	0.10	10.4	96.5	1.0	1.58	1.44	149.4	87.36	6.30	44.1			
07/26/70	115.51	3.58	49.7	44.8	105.92	93.68	12.06	10814.1	208.5	1251.3	2.93	302.8	2828.4	28.3	1.33	1.21	125.0	87.35	6.51	44.1			
08/02/70	115.54	2.55	35.4	31.9	105.95	93.79	12.18	10523.7	-90.5	1248.2	0.63	65.7	606.2	6.1	1.58	1.42	148.0	87.30	6.49	46.1			
08/09/70	115.70	1.91	26.8	23.9	106.19	93.87	12.52	10383.1	-140.8	1238.1	0.21	21.8	202.7	2.0	1.51	1.37	142.7	87.55	6.13	45.7			
08/16/70	115.78	3.47	48.2	43.4	106.45	94.22	12.23	11089.5	686.4	1276.9	8.52	872.7	8294.0	82.9	0.53	0.48	49.8	87.67	6.65	42.9			
08/23/70	115.88	4.15	57.7	51.9	106.45	94.25	12.20	11114.4	45.0	1279.5	1.63	173.5	1573.5	15.7	1.53	1.39	148.2	87.81	6.44	47.9			
08/30/70	115.88	5.86	78.8	70.7	106.41	94.41	12.00	11310.8	198.4	1290.3	2.44	260.2	2355.4	23.6	1.23	1.05	111.5	87.78	6.62	46.6			
09/06/70	116.09	5.86	78.8	70.7	106.41	94.37	12.04	11256.9	-53.9	1287.4	0.69	74.2	666.1	6.7	1.72	1.48	157.2	87.94	6.43	48.3			
09/13/70	116.08	8.71	121.0	106.9	106.51	94.34	12.17	11221.4	-35.5	1285.4	0.14	15.0	135.1	1.4	1.25	1.06	114.0	88.01	6.33	46.7			
09/20/70	116.00	8.25	114.5	103.0	106.51	94.38	12.13	11270.1	48.7	1288.1	1.02	109.3	964.8	9.8	1.40	1.19	127.5	88.01	6.36	45.9			
09/27/70	115.72	7.34	102.0	91.8	106.45	94.34	12.11	11227.3	-42.8	1285.7	0.02	2.1	19.3	0.2	1.11	0.84	90.6	87.93	6.41	48.3			
10/04/70	115.72	3.69	51.3	46.2	106.29	94.25	12.04	11109.7	-117.7	1279.2	0.00	0.0	0.0	0.0	1.44	1.09	117.3	87.74	6.51	46.8			
10/11/70	115.40	3.69	51.3	46.2	106.21	94.18	12.05	10984.5	-115.1	1272.8	0.00	0.0	0.0	0.0	1.41	1.07	114.2	87.71	6.45	47.1			
10/18/70	115.27	0.88	12.2	11.0	106.11	94.05	12.08	10848.7	-145.8	1264.6	0.00	0.0	0.0	0.0	1.37	1.04	110.4	87.58	6.49	46.4			
10/25/70	115.26	0.22	3.1	2.8	106.19	94.07	12.12	10860.1	31.4	1268.3	1.32	139.1	1274.2	12.7	0.98	0.73	76.9	87.45	6.82	46.4			
11/01/70	115.19	0.19	2.8	2.3	106.21	94.04	12.17	10844.0	-36.1	1264.3	0.65	66.6	827.5	6.3	0.88	0.82	65.9	87.28	6.78	47.3			
11/08/70	115.02				106.99	93.95	12.04	10728.4	-115.6	1257.8	0.00	0.0	0.0	0.0	0.90	0.84	67.3	87.09	6.86	48.3			
11/15/70	114.88				106.94	93.88	12.06	10635.4	-93.1	1252.5	0.12	12.6	115.8	1.2	0.78	0.55	58.0	86.95	6.92	48.8			
11/22/70	114.81				105.83	93.79	12.04	10531.5	-103.8	1246.6	0.00	0.0	0.0	0.0	0.74	0.53	54.8	86.84	6.95	49.0			
11/29/70	114.64				105.73	93.71	12.02	10427.4	-104.2	1240.6	0.03	3.1	29.0	0.3	0.68	0.56	58.6	86.58	7.15	48.9			
12/06/70	114.49				105.68	93.62	12.04	10315.5	-111.9	1234.2	0.00	0.0	0.0	0.0	0.0	0.72	0.60	61.8	86.43	7.19	50.1		
12/13/70	114.39				105.59	93.52	12.07	10199.8	-115.8	1227.5	0.00	0.0	0.0	0.0	0.0	0.77	0.64	65.7	86.37	7.18	50.1		
12/20/70	114.30				105.60	93.49	12.11	10153.9	-45.7	1224.8	0.49	50.1	473.0	4.7	0.60	0.50	50.9	86.28	7.21	49.6			
12/27/70	114.21				105.56	93.44	12.12	10091.1	-62.8	1221.2	0.30	30.6	269.6	2.9	0.59	0.45	48.4	86.40	7.04	49.9			
01/03/71	114.18				105.56	93.48	12.06	10147.9	56.7	1224.5	1.38	138.4	1312.9	13.1	0.59	0.45	48.2	86.20	7.28	48.8			
01/10/71	114.26				105.68	93.60	12.06	10289.2	141.3	1232.7	1.92	195.9	1853.4	18.5	0.29	0.22	22.8	86.23	7.37	50.4			
01/17/71	114.18				105.68	93.54	12.12	10214.6	-74.6	1226.4	0.18	18.5	173.8	1.7	0.55	0.42	43.5	86.16	7.38	51.3			
01/24/71	114.07				105.58	93.45	12.11	10104.3	-110.3	1222.0	0.00	0.0	0.0	0.0	0.76	0.58	59.1	86.02	7.43	51.2			
01/31/71																							

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.8903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etoria Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneesville Pan Evap. In/week	Geneva Lake Evap. In/week	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day		
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Geneva Lake Aquifer Elevation elev	Lake - Aquifer Elevation ft				Geneva Leakage ac-feet		
																								Geneva Discharge cfs	Geneva Discharge ac-feet
04/04/71	114.01				105.41	93.01	12.40		9671.9	-151.2	1190.5	0.10	10.0	96.5	1.0	1.36	1.13	113.4	98.03	6.98	48.8				
04/11/71	113.82				105.49	93.06	12.41		9660.2	88.3	1196.8	2.39	237.1	2307.1	23.1	1.50	1.26	125.0	95.79	7.29	48.9				
04/18/71	113.82				105.39	92.93	12.46		9478.2	-194.0	1184.8	0.00	0.0	0.0	0.0	1.61	1.35	134.8	95.80	7.12	48.2				
04/25/71	113.72				105.33	92.78	12.55		9310.8	-165.5	1174.8	0.19	18.8	183.4	1.8	1.71	1.40	136.4	95.78	7.00	47.7				
06/02/71	113.66				105.26	92.69	12.57		9195.8	-115.0	1167.8	0.46	45.0	444.1	4.4	1.47	1.21	118.0	95.68	7.00	46.5				
06/09/71	113.61				105.13	92.66	12.57		9051.0	-144.8	1159.0	0.43	41.8	415.1	4.2	1.81	1.48	144.4	95.42	7.14	46.2				
06/16/71	113.36				105.19	92.63	12.66		9011.0	-40.0	1156.5	1.16	112.0	1119.8	11.2	1.47	1.21	116.4	95.36	7.15	46.8				
06/23/71	113.16				105.01	92.36	12.65		8813.1	-197.9	1144.3	0.02	1.9	19.3	0.2	1.94	1.59	153.3	95.09	7.27	46.7				
06/30/71	113.00				105.06	92.36	12.68		8638.9	25.8	1145.9	2.09	199.3	2017.5	20.2	1.81	1.54	146.7	94.94	7.43	47.0				
08/08/71	112.76				104.89	92.22	12.67		8664.1	-174.8	1135.0	0.20	19.1	193.1	1.9	1.82	1.55	147.7	94.66	7.65	48.1				
08/13/71	112.66				104.86	92.11	12.75		8532.7	-131.5	1126.7	0.36	34.0	347.5	3.5	1.50	1.28	120.6	94.65	7.48	48.4				
08/20/71	112.66				104.87	92.07	12.80		8492.5	-40.2	1124.2	1.45	136.1	1399.7	14.0	1.79	1.52	142.9	94.69	7.48	47.5				
08/27/71	112.34				104.86	92.04	12.82		8454.3	-39.2	1121.7	1.46	136.8	1408.4	14.1	1.66	1.51	141.5	94.41	7.63	47.5				
07/04/71	112.27				104.79	91.98	12.83		8361.0	-83.3	1115.8	0.87	62.8	648.8	6.5	1.34	1.22	114.0	94.42	7.53	48.4				
07/11/71	112.26				104.83	91.96	12.87		8364.3	3.3	1116.0	1.83	170.2	1769.8	17.7	1.62	1.47	137.1	94.42	7.53	47.5				
07/18/71	112.23				104.74	91.88	12.86		8274.9	-89.4	1110.3	1.01	93.9	975.0	9.7	1.72	1.57	145.6	94.40	7.48	47.5				
07/25/71	112.10				104.76	91.86	12.90		8258.0	-16.9	1109.2	1.26	115.7	1206.7	12.1	1.16	1.06	97.7	94.45	7.41	46.9				
08/01/71	111.92				104.79	91.98	12.81		8363.0	124.9	1117.2	2.89	267.1	2789.8	27.9	1.47	1.34	123.6	94.35	7.62	48.4				
08/08/71	111.86				104.71	91.97	12.74		8371.7	-11.2	1116.5	1.87	155.5	1612.1	16.1	1.59	1.45	134.7	94.30	7.67	48.4				
08/15/71	112.11				104.71	92.11	12.60		8534.4	162.7	1126.8	3.02	261.0	2915.3	29.2	1.17	1.06	99.1	94.40	7.71	48.4				
08/22/71	112.13				104.76	92.31	12.45		8766.0	231.6	1141.3	3.80	356.8	3698.3	36.7	1.32	1.20	112.8	94.46	7.85	48.1				
08/29/71	112.17				104.94	92.33	12.61		8779.2	13.2	1142.2	1.52	144.6	1487.3	14.7	1.18	1.00	95.4	94.66	7.77	50.8				
09/05/71	112.21				104.86	92.30	12.56		8751.8	-27.5	1140.5	1.25	119.0	1208.7	12.1	1.34	1.14	108.4	94.64	7.78	50.1				
09/12/71	112.48				105.07	92.36	12.72		8806.1	58.3	1144.0	1.98	188.2	1911.4	19.1	1.25	1.06	101.0	94.75	7.80	50.0				
09/19/71	112.67				105.07	92.22	12.85		8663.1	-145.0	1134.9	0.09	8.6	96.9	0.9	1.30	1.11	106.3	94.82	7.41	49.1				
09/26/71	112.84				105.07	92.14	12.93		8663.7	-99.4	1128.7	0.44	41.6	424.7	4.2	1.36	1.03	97.8	94.81	7.33	47.5				
10/03/71	112.82				104.91	92.01	12.90		8417.8	-148.1	1119.4	0.00	0.0	0.0	0.0	1.39	1.08	99.4	94.51	7.50	46.7				
10/10/71	112.80				104.96	92.08	12.90		8472.5	55.0	1122.9	1.89	176.3	1824.5	18.2	1.30	0.99	92.2	94.79	7.27	47.4				
10/17/71	112.85				104.91	92.09	12.82		8510.8	38.2	1125.3	1.32	123.5	1274.2	12.7	0.73	0.55	51.9	94.74	7.35	46.1				
10/24/71	112.80				104.87	92.05	12.82		8470.1	-40.7	1122.7	0.74	69.4	714.3	7.1	0.99	0.75	70.8	94.82	7.24	46.7				
10/31/71	112.82				104.78	92.01	12.77		8427.0	-43.1	1120.0	0.51	47.7	492.3	4.9	0.75	0.53	49.8	94.74	7.27	45.9				
11/07/71	112.48				104.71	91.93	12.78		8332.4	-94.6	1114.0	0.32	29.9	306.9	3.1	1.23	0.87	81.5	94.68	7.25	46.0				
11/14/71	112.32				104.61	91.85	12.76		8242.6	-89.8	1108.2	0.08	8.4	86.9	0.9	0.81	0.58	53.4	94.68	7.27	45.8				
11/21/71	112.20				104.51	91.77	12.74		8153.6	-89.0	1102.5	0.12	11.1	115.8	1.2	0.85	0.60	55.7	94.65	7.12	45.5				
11/28/71	112.26				104.46	91.70	12.76		8072.7	-80.9	1097.3	0.06	5.5	57.9	0.8	0.66	0.46	42.7	94.59	7.11	44.3				
12/05/71	112.52				104.73	91.97	12.76		8378.6	303.9	1116.8	3.99	364.8	3651.7	36.5	0.73	0.61	55.4	94.82	7.35	44.1				
12/12/71	112.57				104.81	91.91	12.87		8308.2	-88.3	1112.4	0.08	7.4	77.2	0.8	0.39	0.32	30.1	94.77	7.14	46.4				
12/19/71	112.82				104.71	91.81	12.90		8203.1	-105.1	1105.7	0.02	1.9	19.3	0.2	0.81	0.67	62.3	94.78	7.03	44.9				
12/26/71	112.70				104.76	91.80	12.96		8186.0	-17.1	1104.8	0.84	59.0	617.8	6.2	0.54	0.42	36.3	94.83	6.95	43.9				
01/02/72	112.71				104.76	91.73	13.03		8114.9	-71.1	1100.0	0.23	21.2	222.0	2.2	0.72	0.56	51.0	95.05	6.68	43.5				
01/09/72	112.67				104.69	91.71	12.96		8090.4	-24.5	1098.4	0.80	55.0	579.2	5.8	0.62	0.48	43.8	95.13	6.58	41.5				
01/16/72	112.80				104.79	91.79	13.00		8178.1	87.7	1104.1	1.73	158.4	1670.0	16.7	0.86	0.51	46.5	95.16	6.64	40.9				
01/23/72	112.89				104.84	91.85	12.99		8242.8	64.5	1106.2	1.46	134.3	1406.4	14.1	0.80	0.46	42.5	95.27	6.58	41.4				
01/30/72	112.99				104.81	91.85	12.96		8247.2	4.8	1108.5	0.88	81.3	849.5	8.5	0.69	0.48	44.0	95.45	6.41	41.2				
02/06/72	113.01				104.79	91.89	12.90		8290.9	42.8	1111.3	1.20	110.9	1158.4	11.6	0.62	0.43	39.5	95.35	6.65	40.1				
02/13/72	113.06				104.83	91.89	12.94		8285.9	-4.1	1111.0	0.78	72.2	753.0	7.5	0.67	0.46	42.8	95.75	6.14	41.1				
02/20/72	113.17				104.81	91.92	12.89		8322.8	36.9	1113.4	1.35	125.0	1303.2	13.0	0.96	0.68	62.6	95.70	6.22	38.5				
02/27/72	113.19				104.77	91.83	12.94		8220.0	-102.7	1106.8	0.08	6.6	57.9	0.6	1.03	0.75	69.8	95.84	5.99	39.1				
03/05/72	113.33				104.79	91.91	12.88		8305.9	85.9	1112.3	2.07	190.9	1996.2	20.0	1.30	0.95	87.5	95.89	6.01	37.5				
03/12/72	113.31				104.77	91.79	12.96		8177.5	-126.5	1104.0	0.00	0.0	0.0	0.0	1.34	0.98	90.7	95.79	6.00	37.8				
03/19/72	113.30				104.71	91.69	13.02		8063.7	-113.8	1096.7	0.16	14.7	154.5	1.5	1.38	1.01	92.7	95.80	5.88	37.4				
03/26/72	113.20				104.69	91.53	13.06		7897.7	-186.0	1085.8	0.01	0.9	9.7	0.1	1.70	1.43	130.5	95.86	5.68	36.5				
04/02/72	113.61				104.90	91.90	13.00		8296.4	401.7	1111.9	5.27	478.9	5067.3	50.9	1.20	1.01	91.2	96.07	5.83	34.8				
04/09/72	113.81				104.81	91.78	13.03		8185.9	-133.5	1103.3	0.05	4.8	48.3	0.5	1.31	1.10	102.0	95.95	5.63	36.6				
04/16/72	113.86				104.73	91.82	13.11		7990.8	-175.4	1091.9	0.00	0.0	0.0	0.0	1.80	1.51	139.0	96.02	5.80	36.3				
04/23/72	113.70				104.83	91.83	13.10		7893.0	-87.5	1085.5	0.79	71.9	762.6	7.8	1.91	1.67	142.5	96.06	5.47	34.5				
04/30/72	113.63				104.87	91.87	13.10		7931.9	30.9	1088.1	2.06	185.4	1978.9	19.8	1.79	1.47	132.8	96.79	5.77	33.6				
05/07/72	113.66				104.86	91.42	13.14		7773.5	-158.4	1077.7	0.02	1.8	19.3	0.2	1.88	1.38	124.9	95.67	5.75	35.5				
05/14/7																									

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711789.8 C2 = -89613.29 C3 = 563.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502818 C2 = -13624.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Discharge = 90% Brooklyn Discharge ac-feet	Effective Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet					
	Geneva Discharge cfs	Geneva Discharge ac-feet	Geneva Discharge cfs	Geneva Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Geneva Discharge cfs	Geneva Discharge ac-feet					
07/02/72	115.59	0.82	11.4	13.36	105.36	92.01	13.36	8420.3	-148.2	1119.8	0.28	28.3	270.3	2.7	1.75	1.59	149.8	88.79	5.28	35.7	
07/09/72	115.70	2.36	32.8	29.5	105.29	91.92	13.37	8318.5	-103.8	1113.0	0.72	87.2	895.0	7.0	2.06	1.87	174.0	86.79	6.13	33.4	
07/16/72	115.75	3.47	48.2	43.4	105.23	91.82	13.41	8209.9	-108.6	1106.1	0.21	19.6	202.7	2.0	1.85	1.50	139.3	86.75	5.07	32.2	
07/23/72	115.89	4.04	56.0	50.4	105.17	91.74	13.43	8123.8	-86.1	1100.6	0.28	25.8	270.3	2.7	1.59	1.45	133.4	86.75	4.99	31.7	
07/30/72	115.73	2.36	32.8	29.5	105.07	91.77	13.30	8155.9	32.1	1102.6	1.83	187.8	1766.8	17.7	1.82	1.98	151.9	86.49	5.28	31.0	
08/06/72	115.53	3.81	52.9	47.6	105.06	91.82	13.24	8213.3	57.4	1106.3	1.78	163.6	1718.3	17.2	1.65	1.50	136.0	86.31	5.51	32.9	
08/13/72	115.50	1.83	25.4	22.9	105.01	91.73	13.28	8106.6	-106.7	1099.5	0.12	11.1	115.8	1.2	1.28	1.16	107.4	86.11	5.61	34.4	
08/20/72	115.59	1.59	22.0	19.8	105.07	91.80	13.47	7965.6	-140.8	1090.3	0.15	13.7	144.8	1.4	1.69	1.54	140.9	86.20	5.39	34.9	
08/27/72	116.43	2.36	32.8	29.5	105.85	92.41	13.44	8875.8	909.9	1148.2	10.02	910.4	9672.6	96.7	1.21	1.03	83.4	86.98	5.43	33.2	
09/03/72	116.56	14.57	202.4	182.1	105.95	92.53	13.42	9012.9	137.1	1156.6	1.05	100.5	1013.6	10.1	1.48	1.28	120.4	87.19	5.34	35.2	
09/10/72	116.44	17.05	236.7	213.0	105.97	92.80	13.37	9096.5	83.7	1161.8	0.18	15.4	154.5	1.5	1.36	1.16	111.4	87.15	5.45	34.9	
09/17/72	116.34	14.78	204.9	184.5	105.91	92.82	13.29	9119.8	23.3	1163.2	0.02	1.9	19.3	0.2	1.58	1.32	127.6	87.21	5.41	35.8	
09/24/72	116.20	12.93	179.5	161.6	105.89	92.85	13.24	9149.7	29.9	1165.0	0.17	18.5	184.1	1.8	1.58	1.18	114.2	87.10	5.55	35.8	
10/01/72	116.05	10.50	145.8	131.2	105.89	92.71	13.18	9226.7	78.9	1169.7	0.78	73.8	733.7	7.3	1.34	1.02	98.9	87.21	5.50	36.5	
10/08/72	115.78	8.09	112.4	101.1	105.82	92.72	13.10	9232.3	5.7	1170.1	0.32	31.2	306.9	3.1	1.28	0.96	93.3	87.11	5.61	36.4	
10/15/72	115.66	4.39	61.0	54.9	105.77	92.67	13.10	9172.2	-60.2	1166.4	0.04	3.9	36.8	0.4	1.11	0.84	82.3	86.83	5.83	37.1	
10/22/72	115.49	3.05	42.3	38.1	105.66	92.80	13.06	9091.3	-80.9	1161.5	0.00	0.0	0.0	0.0	1.09	0.83	80.5	86.71	5.89	36.4	
10/29/72	115.40	1.51	20.9	18.8	105.63	92.58	13.05	9067.7	-23.5	1160.0	0.63	61.0	606.2	6.1	1.03	0.73	70.8	86.62	6.05	36.7	
11/05/72	115.36	0.88	12.2	11.0	105.61	92.51	13.10	8992.3	-75.5	1155.4	0.16	15.5	154.5	1.5	0.93	0.66	63.8	86.64	5.87	39.7	
11/12/72	115.42	0.85	9.0	8.1	105.61	92.65	13.16	9147.6	155.4	1164.9	2.21	212.8	2133.4	21.3	0.71	0.50	48.5	86.72	5.83	38.3	
11/19/72	115.43	1.01	14.0	12.6	105.61	92.73	13.08	9242.1	94.5	1170.7	1.63	158.2	1573.5	15.7	0.77	0.65	53.1	86.70	6.03	39.0	
11/26/72	115.53	1.08	14.9	13.4	105.90	92.85	13.05	9388.8	144.8	1179.4	2.05	200.0	1978.9	19.8	0.60	0.50	48.6	86.84	6.01	39.9	
12/03/72	115.53	1.83	25.4	22.9	105.97	92.93	13.04	9483.0	96.2	1185.2	1.38	133.7	1312.9	13.1	0.41	0.34	33.4	86.71	6.22	40.0	
12/10/72	115.58	1.83	25.4	22.9	105.99	92.89	13.10	9429.5	-53.5	1182.0	0.02	2.0	19.3	0.2	0.45	0.37	36.9	86.64	6.24	41.7	
12/17/72	115.80	2.09	29.0	26.1	105.95	92.90	13.05	9448.2	18.7	1183.1	1.02	100.5	984.8	9.8	0.93	0.77	76.0	86.73	6.17	41.7	
12/24/72	115.83	2.45	34.1	30.7	105.91	93.12	13.09	9705.1	106.21	1196.5	2.78	274.1	2683.6	26.8	0.44	0.34	33.4	86.77	6.35	41.2	
12/31/72	115.72	5.01	69.5	62.6	106.17	93.11	13.08	9699.4	-5.7	1198.1	0.19	19.0	183.4	1.8	0.60	0.46	46.1	86.82	6.29	43.0	
01/07/73	115.80	3.69	51.3	46.2	106.11	93.09	13.02	9672.3	-27.1	1196.5	0.12	12.0	115.8	1.2	0.57	0.44	43.8	86.80	6.29	42.8	
01/14/73	115.89	4.63	64.3	57.9	106.20	93.19	13.01	9792.7	120.4	1203.7	1.22	121.6	1177.7	11.8	0.37	0.28	26.4	86.80	6.39	42.5	
01/21/73	115.73	5.79	80.4	72.4	106.27	93.17	13.10	9763.7	-28.0	1202.0	0.00	0.0	0.0	0.0	0.75	0.58	57.9	86.82	6.34	43.5	
01/28/73	115.83	3.81	52.9	47.6	106.31	93.39	12.92	10031.6	287.9	1217.7	2.82	282.5	2722.2	27.2	0.67	0.46	46.3	86.84	6.84	43.1	
02/04/73	115.85	5.01	69.5	62.6	106.37	93.50	12.87	10174.0	142.4	1226.0	1.59	161.3	1534.9	15.3	0.74	0.51	51.8	87.02	6.49	45.0	
02/11/73	115.90	5.26	73.1	65.8	106.41	93.63	12.78	10327.8	163.8	1234.9	1.63	168.5	1733.5	15.7	0.70	0.48	49.3	87.37	6.26	44.9	
02/18/73	115.86	5.93	82.3	74.1	106.43	93.69	12.74	10407.9	80.1	1239.5	1.06	109.1	1023.3	10.2	0.98	0.68	60.6	87.25	6.44	43.7	
02/25/73	115.74	5.39	74.9	67.4	106.39	93.85	12.73	10367.3	-40.7	1237.2	0.03	3.1	29.0	0.3	0.88	0.64	66.4	87.14	6.53	45.1	
03/04/73	115.70	3.92	54.4	49.0	106.36	93.80	12.76	10290.1	-77.2	1232.7	0.02	2.1	19.3	0.2	1.10	0.80	82.8	87.03	6.57	45.6	
03/11/73	115.84	3.47	48.2	43.4	106.38	93.73	12.65	10454.4	164.3	1242.2	2.09	214.7	2017.5	20.2	0.91	0.66	66.2	87.15	6.58	45.8	
03/18/73	115.85	5.14	71.3	64.2	106.43	93.86	12.77	10367.3	-87.0	1237.2	0.12	12.4	115.8	1.2	1.57	1.15	118.6	87.21	6.45	46.2	
03/25/73	115.81	5.26	73.1	65.8	106.58	93.80	12.78	10534.3	168.9	1246.8	2.38	245.4	2297.5	23.0	1.41	1.18	122.1	87.35	6.45	45.1	
04/01/73	116.17	4.78	65.1	59.5	106.76	93.99	12.77	10782.0	247.7	1280.8	2.85	286.1	2761.2	27.5	1.03	0.87	89.9	87.77	6.23	45.4	
04/08/73	116.38	10.00	138.8	125.0	106.91	94.31	12.60	11184.8	402.8	1283.4	3.97	417.1	3832.4	38.3	1.51	1.27	133.3	87.87	6.43	44.4	
04/15/73	116.28	13.85	189.8	170.6	106.78	94.30	12.48	11198.8	-18.0	1282.4	0.00	0.0	0.0	0.0	1.58	1.33	141.9	87.85	6.45	46.7	
04/22/73	116.13	11.87	164.8	148.3	106.65	94.28	12.39	11115.9	-50.9	1279.5	0.00	0.0	0.0	0.0	1.74	1.43	152.5	87.90	6.35	46.7	
04/29/73	116.00	9.35	129.8	116.3	106.58	94.24	12.32	11091.9	-24.0	1278.2	0.47	50.1	483.7	4.5	1.71	1.40	149.5	87.85	6.39	45.9	
05/06/73	115.85	7.34	102.0	91.8	106.45	94.16	12.29	10988.2	-103.7	1272.4	0.00	0.0	0.0	0.0	1.71	1.40	149.4	87.82	6.34	46.1	
05/13/73	115.73	5.26	73.1	65.8	106.37	94.14	12.23	10971.8	-16.8	1271.5	1.29	136.8	1245.3	12.5	2.14	1.75	186.1	87.83	6.31	45.5	
05/20/73	115.63	3.81	52.9	47.6	106.21	94.03	12.18	10825.2	-148.4	1263.3	0.00	0.0	0.0	0.0	1.71	1.40	148.8	87.48	6.55	45.4	
05/27/73	115.85	2.74	38.1	34.3	106.48	94.02	12.44	10810.2	-15.1	1262.4	1.82	170.5	1563.8	15.6	2.11	1.79	188.8	87.59	6.42	46.7	
06/03/73	115.75	5.26	73.1	65.8	106.58	94.00	12.56	10795.4	-14.8	1261.6	1.06	111.5	1023.3	10.2	1.78	1.49	158.5	87.44	6.57	45.8	
06/10/73	115.79	4.04	56.0	50.4	106.49	93.92	12.57	10884.0	-101.4	1255.8	0.65	66.3	627.6	6.3	2.01	1.71	179.8	87.37	6.55	46.8	
06/17/73	115.84	4.51	62.8	56.4	106.88	94.10	12.56	10918.7	224.7	1268.5	3.14	328.6	3031.1	30.3	1.62	1.38	144.1	87.45	6.85	48.5	
06/24/73	116.21	5.14	71.3	64.2	107.01	94.22	12.79	11076.1	167.4	1277.3	2.48	262.2	2394.0	23.9	1.81	1.57	145.3	87.84	6.29	47.8	
07/01/73	116.34	10.87	148.1	133.3	106.89	94.23	12.68	11082.6	6.5	1277.7	0.45	47.9	434.4	4.3	1.51	1.28	133.7	88.00	6.23	45.4	
07/08/73	116.67	12.90	179.5	161.6	106.91	94.30	12.61	11196.5	83.8	1282.3	1.52	161.8	1467.3	14.7	2.18	1.97	209.3	88.19	6.10	45.0	
07/15/73	116.84	19.21	266.7	240.1	107.23	94.54	12.69	11478.6	312.2	1296.6	2.15	229.8	2075.5	20.8	1.38	1.26	134.2	88.00	6.53	44	

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day													
	Effective Discharge = 90%		Geneva Discharge cfs	Geneva Discharge ac-feet				Geneva Discharge ac-feet	Geneva Discharge ac-feet						Geneva Discharge ac-feet	Geneva Discharge ac-feet				Geneva Discharge ac-feet													
	Brooklyn Elevation ft	Brooklyn Discharge cfs																															
10/07/73	116.06	10.17	141.1	127.0	106.73	96.43	11.30	12672.0	-25.5	1363.4	0.22	25.0	212.4	2.1	1.45	1.10	125.3	68.44	6.90	54.3													
10/14/73	115.90	8.25	114.5	103.0	106.56	96.38	11.18	12603.7	-68.2	1369.8	0.00	0.0	0.0	0.0	1.36	1.03	117.4	68.29	7.09	53.9													
10/21/73	115.74	5.83	82.3	74.1	106.35	96.36	10.99	12567.5	-36.3	1357.9	0.28	29.5	251.0	2.5	1.02	0.78	87.8	68.34	7.02	54.5													
10/28/73	115.56	3.82	54.4	49.0	106.21	96.30	10.91	12496.8	-80.7	1353.6	0.03	3.4	29.0	0.3	0.99	0.70	79.5	68.25	7.05	53.8													
11/04/73	115.43	2.09	29.0	26.1	106.19	96.28	10.91	12466.1	-20.7	1352.6	0.66	74.5	637.1	6.4	0.92	0.65	73.7	68.06	7.20	53.9													
11/11/73	115.33	1.06	14.9	13.4	106.08	96.19	10.89	12342.9	-123.1	1346.1	0.02	2.3	19.3	0.2	1.05	0.75	84.0	67.94	7.25	55.0													
11/18/73	115.22	0.49	6.8	6.1	106.03	96.10	10.93	12215.9	-127.1	1339.3	0.00	0.0	0.0	0.0	0.98	0.70	78.0	67.82	7.48	56.2													
11/25/73	115.11	0.05	0.8	0.7	105.99	94.99	11.00	12079.4	-136.5	1332.1	0.00	0.0	0.0	0.0	0.87	0.72	80.6	67.32	7.68	56.8													
12/02/73	115.00				105.90	94.90	11.00	11956.2	-123.2	1325.5	0.18	17.8	154.5	1.5	0.92	0.78	84.8	67.02	7.88	57.8													
12/09/73	115.03				105.99	94.96	11.03	12035.1	78.9	1329.7	1.68	183.4	1602.5	16.0	0.67	0.56	61.4	66.95	8.01	59.0													
12/16/73	115.06				106.07	95.03	11.04	12131.5	96.5	1334.8	1.85	205.0	1785.9	17.9	0.72	0.60	66.2	66.93	8.10	60.2													
12/23/73	115.16				106.11	95.02	11.09	12109.4	-22.2	1333.7	0.74	82.3	714.3	7.1	0.59	0.45	50.5	66.89	8.13	61.1													
12/30/73	115.25				106.15	95.02	11.13	12110.0	0.6	1333.7	0.88	97.8	849.5	8.5	0.52	0.40	44.5	66.96	8.04	61.2													
01/06/74	115.27	0.15	2.1	1.9	106.17	94.94	11.23	12002.9	-107.1	1326.0	0.01	1.1	8.7	0.1	0.56	0.45	46.8	66.97	7.97	60.6													
01/13/74	115.25	0.22	3.1	2.8	106.09	94.84	11.25	11878.6	-124.3	1321.3	0.00	0.0	0.0	0.0	0.79	0.61	67.3	66.84	8.00	59.8													
01/20/74	115.22	0.15	2.1	1.9	106.08	94.78	11.30	11787.4	-111.2	1315.3	0.00	0.0	0.0	0.0	0.63	0.49	53.4	66.85	7.91	59.7													
01/27/74	115.16	0.05	0.8	0.7	106.01	94.66	11.35	11645.0	-122.3	1308.6	0.00	0.0	0.0	0.0	0.85	0.69	64.3	66.70	7.97	58.7													
02/03/74	115.13				106.03	94.60	11.43	11584.1	-80.9	1304.2	0.29	31.6	279.9	2.8	0.75	0.52	56.4	66.52	8.06	56.9													
02/10/74	114.96				105.95	94.58	11.37	11530.9	-33.2	1302.4	0.97	106.4	936.4	9.4	1.18	0.81	88.5	66.48	8.10	55.9													
02/17/74	114.85				105.87	94.48	11.39	11398.6	-132.2	1295.2	0.00	0.0	0.0	0.0	0.97	0.67	72.6	66.46	8.02	56.6													
02/24/74	114.90				105.92	94.51	11.41	11446.2	47.6	1297.8	1.56	168.4	1505.9	15.1	0.98	0.72	77.2	66.34	8.17	58.7													
03/03/74	114.69				105.81	94.40	11.41	11301.8	-144.4	1289.6	0.00	0.0	0.0	0.0	1.07	0.78	84.5	66.25	8.15	59.9													
03/10/74	114.67				11138.0	94.27	11.49	11138.0	-163.8	1280.8	0.00	0.0	0.0	0.0	1.33	0.97	104.4	66.08	8.20	59.4													
03/17/74	114.41				105.67	94.14	11.53	10986.1	-171.9	1271.2	0.01	1.1	9.7	0.1	1.46	1.07	113.9	66.02	8.12	59.3													
03/24/74	114.48				105.79	94.23	11.56	11079.4	113.3	1277.5	2.37	251.1	2287.8	22.9	1.15	0.97	102.3	65.97	8.26	58.3													
03/31/74	114.33				105.75	94.09	11.58	10902.0	-177.4	1267.8	0.01	1.1	9.7	0.1	1.33	1.12	118.9	65.93	8.16	59.8													
04/07/74	114.21				105.76	93.94	11.62	10721.2	-180.8	1267.4	0.27	28.5	260.6	2.6	1.73	1.46	153.5	65.84	8.11	58.4													
04/14/74	114.06				105.65	93.81	11.64	10563.8	-167.4	1247.9	0.34	36.8	328.2	3.3	1.69	1.42	148.7	65.70	8.11	57.8													
04/21/74	113.78				105.54	93.66	11.68	10381.9	-191.9	1236.9	0.12	12.5	115.8	1.2	1.74	1.43	148.4	65.54	8.12	57.2													
04/28/74	113.58				105.39	93.52	11.87	10196.7	-165.2	1227.3	0.44	45.4	424.7	4.2	1.87	1.53	158.1	65.29	8.23	56.7													
05/05/74	113.38				105.32	93.35	11.97	9983.4	-213.3	1214.9	0.02	2.0	19.3	0.2	1.89	1.55	168.5	65.29	8.06	57.1													
05/12/74	113.24				105.41	93.44	11.97	10090.3	106.9	1221.1	2.87	290.6	2770.5	27.7	1.68	1.54	156.1	65.22	8.22	55.3													
05/19/74	113.22				105.35	93.47	11.88	10128.5	36.2	1223.4	2.17	220.8	2094.8	20.9	1.78	1.44	148.9	65.17	8.29	56.7													
05/26/74	112.94				105.31	93.33	11.98	9980.5	-168.0	1213.6	0.46	48.9	444.1	4.4	1.67	1.59	162.0	65.07	8.28	57.3													
06/02/74	112.72				105.19	93.19	12.00	9787.5	-173.0	1203.4	0.16	16.2	154.5	1.5	1.56	1.33	134.1	64.86	8.31	56.8													
06/09/74	112.56				105.17	93.22	11.95	9631.5	44.1	1206.0	2.38	238.7	2297.5	23.0	1.69	1.61	161.1	64.86	8.36	56.5													
06/16/74	112.48				105.17	93.36	11.81	9694.4	162.9	1215.5	3.26	327.6	3147.0	31.5	1.63	1.39	139.2	64.89	8.47	57.0													
06/23/74	112.36				105.09	93.18	11.91	9782.3	-212.1	1203.1	0.00	0.0	0.0	0.0	1.67	1.52	153.9	64.93	8.26	56.2													
06/30/74	112.38				105.32	93.44	11.88	10090.5	306.2	1221.2	4.41	442.1	4267.1	42.6	1.32	1.20	120.4	64.88	8.56	56.1													
07/07/74	112.47				105.46	93.34	12.12	9971.4	-119.1	1214.2	0.50	50.9	482.7	4.8	1.25	1.14	115.8	65.04	8.29	59.0													
07/14/74	112.40				105.49	93.44	12.05	10094.6	123.2	1221.4	3.12	315.7	3011.8	30.1	1.80	1.64	165.7	65.15	8.28	56.9													
07/21/74	112.48				105.44	93.39	12.05	10033.7	-60.9	1217.8	1.33	135.4	1283.9	12.8	1.64	1.49	151.9	65.06	8.33	57.2													
07/28/74	112.61				10143.1	93.48	12.03	10143.1	109.3	1224.2	2.43	246.6	2345.8	23.5	1.12	1.02	103.4	65.23	8.25	57.3													
08/04/74	112.63				105.46	93.43	12.03	10079.6	-63.3	1220.5	1.00	102.0	965.3	9.7	1.27	1.16	117.9	65.19	8.25	57.1													
08/11/74	112.74				105.53	93.47	12.06	10133.1	53.3	1223.6	1.92	195.3	1853.4	18.5	1.12	1.02	103.7	65.20	8.27	56.9													
08/18/74	112.88				105.79	93.52	12.27	10194.3	61.2	1227.2	2.10	214.1	2027.2	20.3	1.25	1.14	116.0	65.31	8.21	57.2													
08/25/74	112.99				105.90	93.59	12.31	10281.1	86.8	1232.2	2.48	263.6	2394.0	23.9	1.54	1.31	133.9	65.38	8.21	56.9													
09/01/74	112.94				10126.0	93.46	12.40	10126.0	-155.1	1223.2	0.27	27.7	260.8	2.6	1.47	1.25	126.3	65.35	8.11	57.1													
09/08/74	113.50				106.13	93.57	12.56	10259.4	133.5	1231.0	2.83	268.1	2536.8	25.4	1.20	1.02	104.0	65.48	8.11	56.0													
09/15/74	113.73				106.19	93.63	12.56	10324.0	64.8	1234.7	2.15	220.5	2075.5	20.8	1.38	1.17	120.3	65.66	7.97	56.4													
09/22/74	113.89				106.08	93.66	12.40	10392.7	66.7	1236.7	2.14	220.2	2065.8	20.7	1.49	1.13	116.5	65.74	7.94	55.6													
09/29/74	113.97				105.97	93.80	12.37	10295.1	-97.7	1233.0	0.35	36.1	337.9	3.4	1.04	0.79	81.6	65.87	7.74	55.6													
10/06/74	113.91				105.78	93.46	12.29	10124.8	-170.2	1223.2	0.00	0.0	0.0	0.0	1.49	1.13	116.4	65.77	7.89	53.9													
10/13/74	113.77				105.66	93.34	12.32	9969.4	-155.4	1214.1	0.00	0.0	0.0	0.0	1.32	1.00	102.3	65.59	7.74	53.1													
10/20/74	113.78				105.56	93.23	12.33	9843.9	-125.5	1208.7	0.11	11.1	106.2	1.1	1.10	0.84	84.6	65.48	7.75	53.1													
10/27/74	113.56				105.48	93.12	12.34	9711.8	-132.1	1198.9	0.00	0.0	0.0	0.0	1.11	0.79	79.3	65.36	7.73	52.4													
11/03/74	113.44				105.35	93.06	12.27	9666.3	-45.8	1195.2	0.80	79.9	772.3	7.7	1.14	0.91</																	

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903					Hmin= 105.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368					11584 Runoff Coeff. = 0.01					Leakance = 8.071E-04 1/day						
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Geneva Discharge cfs	Geneva Discharge ac-feet	Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area - Runoff Area ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
01/05/75	112.68				105.17	92.72	12.45	9235.1	-82.2	1170.2	0.26	25.5	251.0	2.5	0.74	0.57	55.8	84.58	84.58	8.18	54.4	
01/12/75	112.79				105.29	92.78	12.51	9301.7	66.6	1174.3	1.79	174.6	1727.9	17.3	0.95	0.73	71.3	84.63	84.63	8.25	53.9	
01/19/75	112.76				105.22	92.70	12.52	9207.9	-93.8	1168.8	0.19	18.6	183.4	1.8	0.79	0.61	59.5	84.60	84.60	8.20	54.7	
01/28/75	112.74				105.31	92.70	12.61	9216.3	8.4	1169.1	0.66	63.7	830.2	8.3	0.44	0.30	29.6	84.47	84.47	8.24	54.1	
02/02/75	112.71				105.28	92.61	12.67	9107.1	-109.1	1162.4	0.01	1.0	8.7	0.1	0.63	0.57	55.8	84.43	84.43	8.18	54.4	
02/09/75	112.66				105.26	92.62	12.64	9121.5	14.4	1163.3	1.18	112.4	1119.8	11.2	0.63	0.57	55.5	84.40	84.40	8.22	53.7	
02/16/75	112.76				105.31	92.65	12.66	9158.5	37.0	1165.8	1.45	140.6	1399.7	14.0	0.95	0.66	63.5	84.37	84.37	8.29	54.0	
02/23/75	112.82				105.43	92.65	12.78	9155.4	-3.1	1165.4	1.02	99.1	984.6	9.8	0.81	0.59	57.4	84.33	84.33	8.32	54.6	
03/02/75	112.76				105.36	92.61	12.77	9102.4	-53.0	1162.1	0.74	71.9	714.3	7.1	1.09	0.80	77.3	84.30	84.30	8.31	54.8	
03/09/75	112.65				105.37	92.52	12.85	9005.8	-96.8	1155.2	0.38	36.8	366.8	3.7	1.17	0.85	62.7	84.27	84.27	8.26	54.5	
03/16/75	112.56				105.35	92.40	12.95	8981.6	-144.0	1147.3	0.00	0.0	0.0	0.0	1.26	0.93	90.0	84.23	84.23	8.16	53.9	
03/23/75	112.48				105.17	92.30	12.87	8744.1	-117.5	1140.0	0.34	32.5	328.2	3.3	1.25	1.06	100.4	84.20	84.20	8.09	52.9	
03/30/75	112.37				105.10	92.15	12.95	8578.4	-165.7	1129.6	0.15	14.2	144.8	1.4	1.62	1.38	129.3	84.17	84.17	7.98	52.1	
04/06/75	112.14				104.95	91.98	12.87	8392.3	-168.1	1117.8	0.00	0.0	0.0	0.0	1.71	1.44	135.2	84.14	84.14	7.85	50.8	
04/13/75	112.19				105.13	92.01	13.12	8421.7	29.5	1119.7	1.72	160.2	1690.4	16.6	1.25	1.06	97.8	84.10	84.10	7.91	49.8	
04/20/75	112.01				105.07	91.91	13.16	8308.1	-113.8	1112.4	0.49	45.7	473.0	4.7	1.49	1.22	114.0	84.07	84.07	7.84	50.0	
04/27/75	111.80				104.98	91.78	13.13	8138.8	-189.4	1101.5	0.00	0.0	0.0	0.0	1.59	1.30	120.1	84.04	84.04	7.72	49.3	
05/04/75	111.59				104.81	91.73	13.08	8107.9	-30.9	1099.5	1.48	134.0	1406.4	14.1	1.74	1.43	131.0	84.00	84.00	7.72	48.0	
05/11/75	111.40				104.77	91.61	13.16	7976.0	-131.9	1091.0	0.21	19.2	202.7	2.0	1.40	1.15	105.2	84.00	84.00	7.58	48.0	
05/18/75	111.31				104.80	91.66	13.14	8032.4	56.4	1094.6	2.33	211.8	2249.2	22.5	1.76	1.44	131.2	83.96	83.96	7.70	46.7	
05/25/75	111.02				104.69	91.48	13.21	7833.5	-196.6	1081.6	0.00	0.0	0.0	0.0	1.95	1.66	151.2	83.77	83.77	7.71	47.6	
06/01/75	110.99				104.63	91.40	13.13	7748.5	-85.1	1076.0	1.04	83.7	1003.9	10.0	1.85	1.57	141.7	83.68	83.68	7.72	47.1	
06/08/75	110.98				104.41	91.36	13.05	7706.8	-41.6	1073.3	1.22	109.4	1177.7	11.8	1.62	1.29	115.9	83.63	83.63	7.73	46.9	
06/15/75	110.76				104.57	91.32	13.25	7665.1	-41.7	1070.5	1.41	128.1	1361.1	13.8	1.77	1.50	134.8	83.58	83.58	7.74	46.9	
06/22/75	110.74				104.51	91.20	13.31	7537.5	-127.7	1062.0	0.43	38.4	415.1	4.2	1.62	1.38	123.4	83.57	83.57	7.63	46.8	
06/29/75	110.80				104.59	91.21	13.38	7562.7	15.2	1063.0	1.77	156.6	1708.8	17.1	1.40	1.27	112.7	83.58	83.58	7.63	45.8	
07/06/75	110.41				104.47	91.11	13.36	7441.8	-111.1	1065.5	0.78	69.1	753.0	7.5	1.76	1.60	141.9	83.57	83.57	7.54	45.8	
07/13/75	110.81				104.57	91.31	13.26	7653.1	211.5	1069.7	3.71	326.3	3581.4	35.8	1.32	1.20	106.7	83.63	83.63	7.68	45.0	
07/20/75	110.59				104.56	91.23	13.35	7567.2	-65.9	1064.0	0.52	48.4	502.0	5.0	1.12	1.02	90.9	83.60	83.60	7.63	46.4	
07/27/75	110.74				104.62	91.23	13.39	7573.4	6.2	1064.4	1.44	127.7	1390.1	13.9	1.11	1.01	89.8	83.69	83.69	7.54	45.8	
08/03/75	110.83				104.76	91.26	13.50	7606.3	32.9	1066.6	1.69	149.9	1631.4	16.3	1.09	0.99	88.0	83.76	83.76	7.49	45.3	
08/10/75	110.73				104.65	91.12	13.53	7457.7	-148.6	1056.6	0.23	20.4	222.0	2.2	1.56	1.42	116.7	83.70	83.70	7.42	45.1	
08/17/75	110.59				104.59	91.05	13.54	7383.4	-74.2	1051.6	0.85	74.8	820.5	8.2	1.41	1.28	113.0	83.76	83.76	7.30	44.3	
08/24/75	110.44				104.50	90.95	13.55	7279.0	-104.4	1044.5	0.59	51.7	598.5	5.7	1.59	1.35	118.4	83.84	83.84	7.11	43.3	
08/31/75	110.42				104.53	90.92	13.61	7241.2	-37.0	1041.9	1.06	92.3	1023.3	10.2	1.33	1.13	98.4	83.95	83.95	6.97	42.0	
09/07/75	110.48				104.67	91.26	13.31	7597.9	366.7	1066.0	5.27	457.6	5087.3	50.9	1.50	1.28	110.7	83.98	83.98	7.28	41.0	
09/14/75	110.72				104.67	91.30	13.37	7645.4	47.6	1069.2	1.94	172.3	1872.7	18.7	1.32	1.12	99.7	84.00	84.00	7.30	43.8	
09/21/75	111.00				104.69	91.36	13.33	7705.2	59.8	1073.2	1.82	162.2	1756.9	17.8	1.12	0.95	75.5	84.25	84.25	7.11	44.1	
09/28/75	110.88				104.69	91.55	13.14	7915.9	210.7	1087.0	3.35	296.6	3233.9	32.3	1.15	0.87	78.2	84.24	84.24	7.31	43.1	
10/05/75	110.86				104.53	91.52	13.01	7883.4	-32.5	1084.9	0.81	73.4	781.9	7.8	1.00	0.76	68.0	84.24	84.24	7.28	44.9	
10/12/75	111.10				104.66	91.47	13.19	7825.4	-58.0	1081.1	0.56	50.6	540.6	5.4	1.01	0.77	69.4	84.35	84.35	7.12	44.6	
10/19/75	111.10				104.67	91.45	13.12	7900.8	-24.6	1079.5	1.02	91.9	984.6	9.8	1.21	0.92	82.8	84.44	84.44	7.00	43.5	
10/26/75	111.07				104.68	91.35	13.11	7894.9	-105.9	1072.5	0.00	0.0	0.0	0.0	0.99	0.70	63.2	84.31	84.31	7.04	42.7	
11/02/75	110.98				104.40	91.32	13.08	7668.9	-29.0	1070.7	0.79	70.6	762.6	7.6	0.97	0.69	61.6	84.26	84.26	7.06	42.7	
11/09/75	110.91				104.35	91.30	13.05	7639.5	-29.4	1069.9	0.59	52.6	569.5	5.7	0.71	0.50	45.0	84.18	84.18	7.12	42.7	
11/16/75	110.81				104.25	91.25	13.00	7666.7	-52.8	1065.3	0.40	35.6	386.1	3.9	0.78	0.55	49.3	84.04	84.04	7.21	43.0	
11/23/75	110.69				104.17	91.15	13.02	7490.3	-96.4	1068.8	0.06	5.3	57.9	0.8	0.90	0.66	58.9	83.95	83.95	7.21	43.4	
11/30/75	110.59				104.09	91.07	13.02	7367.4	-92.9	1062.5	0.00	0.0	0.0	0.0	0.98	0.66	49.8	83.87	83.87	7.20	43.1	
12/07/75	110.48				104.01	90.98	13.03	7306.7	-87.7	1048.6	0.01	0.9	9.7	0.1	0.63	0.52	45.9	83.83	83.83	7.15	42.8	
12/14/75	110.35				103.92	90.91	13.01	7230.5	-79.2	1041.2	0.08	5.2	57.9	0.6	0.69	0.49	42.7	83.63	83.63	7.28	42.3	
12/21/75	110.25				103.85	90.85	13.00	7171.8	-58.9	1037.2	0.36	31.2	347.5	3.5	0.76	0.59	50.8	83.70	83.70	7.15	42.8	
12/28/75	110.25				103.81	90.82	12.99	7144.0	-27.6	1035.3	0.55	47.5	530.9	5.3	0.58	0.45	38.6	83.59	83.59	7.23	41.9	
01/04/76	110.24				103.98	91.01	12.87	7336.0	192.0	1048.4	2.83	244.1	2731.9	27.3	0.56	0.43	37.2	83.74	83.74	7.27	42.3	
01/11/76	110.16				103.91	90.96	12.93	7302.2	-33.8	1046.1	0.38	33.2	366.8	3.7	0.41	0.32	27.6	83.63	83.63	7.35	43.1	
01/18/76	110.09				103.87	90.92	12.96	7244.6	-57.6	1042.2	0.36	31.4	347.5	3.5	0.73	0.56	49.0	83.47	83.47	7.48	43.4	
01/25/76	109.98				103.80	90.84	12.96	7156.4	-88.2	1036.1	0.00	0.0	0.0	0.0	0.74	0.51	44.3	83.39	83.39	7.44	43.9	

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. ac-feet	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet	
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Discharge = 90% Brooklyn Discharge ac-feet	Effective Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet							Gainesville Pan Evap. in/week
	ft	cfs	ac-feet	ac-feet				cfs	ac-feet						ac-feet	ac-feet							in/week
04/04/76	108.51				103.19	90.03	13.16			8347.4	-30.1	979.0	1.39	113.8	1341.8	13.4	1.67	1.40	114.7	82.29	7.75	42.5	
04/11/76	108.36				103.19	90.08	13.11			8395.4	48.1	982.4	1.83	149.3	1706.6	17.7	1.11	0.93	78.1	82.22	7.88	42.8	
04/18/76	108.17				103.15	89.83	13.22			8243.7	-151.7	971.4	0.00	0.0	0.0	0.0	1.81	1.32	108.1	82.04	7.89	43.6	
04/25/76	107.98				103.06	89.77	13.28			8093.4	-150.3	960.3	0.02	1.6	19.3	0.2	1.84	1.34	108.0	81.91	7.86	43.3	
05/02/76	107.72				102.93	89.72	13.21			8048.4	-47.0	958.8	1.10	88.0	1061.9	10.8	1.67	1.29	103.0	81.83	7.89	42.6	
05/09/76	107.52				102.98	89.56	13.30			5894.5	-151.8	945.5	0.00	0.0	0.0	0.0	1.87	1.37	109.2	81.71	7.85	42.7	
05/16/76	107.62				102.95	89.70	13.25			8021.1	126.5	954.9	2.92	230.1	2618.8	28.2	1.39	1.14	89.8	81.84	7.86	41.9	
05/23/76	107.64				103.08	89.88	13.38			8007.9	-13.1	954.0	1.48	117.8	1428.7	14.3	1.52	1.29	102.8	82.07	7.81	42.4	
05/30/76	107.50				103.01	89.74	13.27			8063.0	55.1	958.1	1.98	157.4	1911.4	19.1	1.19	1.01	90.4	81.80	7.94	41.0	
06/06/76	107.53				103.29	89.63	13.66			5958.6	-104.4	950.3	0.39	31.1	376.5	3.8	1.42	1.21	96.4	81.85	7.78	43.0	
06/13/76	107.38				103.28	89.47	13.79			5810.6	-147.9	939.1	0.04	3.2	36.6	0.4	1.63	1.39	109.7	81.87	7.81	41.8	
06/20/76	107.33				103.21	89.73	13.48			8052.3	241.8	957.3	4.69	367.0	4527.4	45.3	1.83	1.67	130.3	82.00	7.73	40.4	
06/27/76	107.30				103.20	89.97	13.23			8283.7	231.5	974.3	4.03	321.5	3890.3	38.9	1.20	1.08	87.1	82.00	7.97	41.8	
07/04/76	107.25				103.19	90.08	13.11			8392.6	108.9	982.2	2.89	218.4	2598.7	26.0	1.24	1.13	91.6	82.00	8.07	43.9	
07/11/76	107.31				103.17	90.04	13.13			8357.5	-35.1	979.7	1.40	114.8	1351.5	13.5	1.59	1.46	118.4	82.03	8.01	44.8	
07/18/76	107.31				103.23	89.87	13.36			8190.6	-166.9	987.5	0.09	7.3	86.9	0.9	1.78	1.60	130.8	81.98	7.91	44.3	
07/25/76	107.28				103.05	89.71	13.34			8032.1	-158.5	958.8	0.04	3.2	38.8	0.4	1.62	1.47	118.9	81.98	7.73	43.3	
08/01/76	107.09				102.95	89.81	13.14			8126.5	94.4	982.8	2.88	229.4	2790.2	27.8	1.67	1.52	121.0	81.95	7.86	41.7	
08/08/76	106.94				102.93	89.72	13.21			8045.0	-81.5	956.7	0.56	44.9	540.6	5.4	1.22	1.11	99.1	81.90	7.82	42.7	
08/15/76	106.70				102.81	89.66	13.15			5891.2	-53.9	952.7	1.11	88.5	1071.5	10.7	1.52	1.38	110.3	81.88	8.01	42.8	
08/22/76	106.59				102.71	89.59	13.12			5916.3	-74.9	947.1	0.59	46.8	609.5	5.7	1.25	1.06	84.4	81.84	7.95	43.1	
08/29/76	106.32				102.57	89.46	13.11			5799.9	-118.3	938.3	0.28	22.1	270.3	2.7	1.47	1.25	96.6	81.35	8.11	42.5	
09/05/76	106.24				102.53	89.47	13.06			5811.6	11.7	939.2	1.78	139.2	1718.3	17.2	1.53	1.30	101.7	81.42	8.05	43.0	
09/12/76	106.22				102.55	89.57	12.98			5905.6	94.0	946.3	2.80	203.5	2509.9	25.1	1.38	1.17	91.8	81.48	8.09	42.7	
09/19/76	106.17				102.58	89.64	13.04			5898.8	-35.8	943.6	0.70	55.2	675.7	6.8	0.91	0.89	84.5	81.85	7.89	43.3	
09/26/76	106.05				102.51	89.45	13.08			5791.2	-78.8	937.6	0.29	22.8	279.9	2.8	1.04	0.78	82.2	81.58	7.90	42.0	
10/03/76	105.84				102.37	89.33	13.04			5676.3	-114.9	928.9	0.00	0.0	0.0	0.0	1.23	0.93	73.0	81.49	7.84	41.8	
10/10/76	105.70				102.21	89.30	12.91			5649.0	-27.3	928.8	0.99	76.8	955.7	9.8	1.23	0.83	72.4	81.41	7.89	41.1	
10/17/76	105.56				102.13	89.27	12.83			5620.8	-28.3	924.6	0.92	71.1	888.1	8.9	1.14	0.87	69.9	81.48	7.79	41.3	
10/24/76	105.38				101.99	89.16	12.86			5519.0	-101.8	916.7	0.04	3.1	36.6	0.4	1.18	0.84	64.6	81.27	7.88	40.7	
10/31/76	105.12				101.87	89.09	12.78			5456.5	-82.4	911.9	0.26	19.9	251.0	2.5	0.81	0.58	43.9	81.25	7.84	40.8	
11/07/76	104.84				101.75	88.99	12.95			5397.9	-88.7	904.9	0.01	0.8	9.7	0.1	0.91	0.65	49.1	81.08	7.84	40.4	
11/14/76	104.77				101.87	88.91	12.76			5289.2	-78.7	898.7	0.03	2.3	29.0	0.3	0.78	0.54	40.7	81.19	7.71	40.8	
11/21/76	104.80				101.81	88.98	12.73			5444.7	155.6	911.0	2.59	194.0	2500.2	25.0	0.39	0.32	24.2	81.15	7.93	39.2	
11/28/76	104.89				101.75	88.99	12.78			5368.0	-78.7	904.9	0.00	0.0	0.0	0.0	0.67	0.47	35.9	81.22	7.77	40.8	
12/05/76	104.83				101.87	88.94	12.73			5317.1	-50.9	900.9	0.31	23.4	299.3	3.0	0.80	0.50	37.6	81.08	7.87	39.7	
12/12/76	104.89				101.75	88.90	12.85			5296.0	-31.1	898.5	0.40	30.0	386.1	3.9	0.40	0.33	24.9	81.08	7.82	40.1	
12/19/76	104.89				102.03	88.97	13.08			5342.7	56.8	903.0	1.38	103.3	1332.2	13.3	0.35	0.27	20.2	81.39	7.57	39.7	
12/26/76	104.72				102.13	89.14	12.89			5500.1	157.3	915.3	2.67	200.9	2577.4	25.8	0.53	0.41	30.7	81.79	7.35	38.8	
01/02/77	104.85				102.17	89.09	13.08			5457.4	-42.7	912.0	0.41	31.3	395.8	4.0	0.68	0.52	39.9	81.70	7.39	38.0	
01/09/77	106.01				102.19	89.19	13.00			5551.4	94.1	919.3	1.85	140.8	1795.9	17.9	0.45	0.35	28.3	82.04	7.15	38.1	
01/16/77	106.00				102.21	89.21	13.00			5587.4	15.9	920.5	1.19	91.2	1148.7	11.5	0.84	0.65	49.5	82.08	7.13	37.2	
01/23/77	104.83				102.09	89.13	12.96			5496.3	-72.0	914.9	0.00	0.0	0.0	0.0	0.86	0.48	34.9	82.00	7.14	37.1	
01/30/77	104.81				102.05	89.05	12.99			5427.1	-68.2	909.8	0.04	3.0	38.8	0.4	0.86	0.48	34.7	82.02	7.04	36.9	
02/06/77	106.05				102.15	89.21	12.94			5557.1	139.9	920.5	2.44	184.9	2356.4	23.8	0.62	0.43	32.4	82.11	7.11	36.2	
02/13/77	106.03				102.10	89.12	12.98			5480.9	-88.2	913.8	0.00	0.0	0.0	0.0	0.93	0.84	49.2	82.31	6.91	37.0	
02/20/77	104.87				102.03	89.03	13.00			5400.7	-80.2	907.5	0.13	9.9	126.5	1.3	1.01	0.74	56.1	82.21	6.81	35.2	
02/27/77	106.07				102.10	89.06	13.04			5425.7	25.0	906.5	1.70	128.6	1641.1	16.4	1.54	1.12	85.0	82.30	6.78	34.9	
03/06/77	104.96				102.05	88.96	13.07			5353.0	-72.8	903.8	0.28	21.2	270.3	2.7	1.12	0.82	62.0	82.21	6.77	34.7	
03/13/77	106.05				102.07	88.96	13.11			5336.6	-13.4	902.7	0.89	67.0	859.1	8.8	0.99	0.72	54.4	82.27	6.69	34.6	
03/20/77	106.01				102.01	88.82	13.19			5213.2	-126.4	892.7	0.00	0.0	0.0	0.0	1.48	1.23	92.3	82.17	6.65	34.1	
03/27/77	104.83				101.89	88.88	13.21			5091.9	-121.3	883.0	0.16	11.9	154.5	1.5	1.82	1.36	101.2	82.05	6.63	33.5	
04/03/77	104.73				101.79	88.53	13.26			4980.5	-131.4	872.3	0.00	0.0	0.0	0.0	1.59	1.34	98.3	81.94	6.59	33.1	
04/10/77	104.53				101.81	88.40	13.21			4841.3	-119.2	862.5	0.20	14.5	193.1	1.9	1.89	1.42	103.2	81.72	6.88	32.5	
04/17/77	104.30				101.49	88.24	13.25			4705.6	-135.7	851.3	0.00	0.0	0.0	0.0	1.75	1.44	103.1	81.65	6.59	32.5	
04/24/77	104.14				101.09	88.15	13.24			4632.8	-72.8	845.1	0.83	44.7	606.2	6.1	1.58	1.30	91.9	81.68	6.50	31.7	
05/01/77	103.88				101.25	87.98	13.97			4486.8	-145.9	832.8	0.00	0.0	0.0	0.0	1.99	1.63	114.9	81.18	6.8		

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -69513.29 C3 = 593.7937 C4 = -1.8903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet													
07/03/77	102.51				100.71	98.84	14.07	3436.0	-110.5	737.5	0.49	30.5	473.0	4.7	2.09	1.90	118.8	80.17	80.17	6.47	27.2			
07/10/77	102.41				100.87	98.50	14.17	3335.9	-100.1	727.8	0.34	20.9	328.2	3.3	1.74	1.58	87.3	90.20	90.20	6.31	27.0			
07/17/77	102.17				100.55	98.34	14.21	3217.8	-118.0	718.1	0.15	9.1	144.8	1.4	1.88	1.89	102.7	90.18	90.18	6.18	26.9			
07/24/77	101.97				100.43	98.18	14.27	3086.9	-130.9	703.0	0.00	0.0	0.0	0.0	1.95	1.77	105.9	90.02	90.02	6.13	26.0			
07/31/77	102.15				100.48	98.02	14.46	2992.1	-94.8	693.3	0.46	26.9	444.1	4.4	1.91	1.74	101.8	90.02	90.02	6.00	24.4			
08/07/77	101.98				100.33	98.85	14.48	2872.1	-120.0	680.9	0.05	2.9	48.3	0.5	1.90	1.73	99.9	79.97	79.97	5.88	23.5			
08/14/77	101.98				100.29	98.86	14.43	2882.8	10.5	682.0	1.68	95.3	1821.8	18.2	1.52	1.38	78.5	79.88	79.88	5.98	22.6			
08/21/77	101.81				100.33	98.15	14.18	3083.0	200.5	702.6	4.35	247.2	4199.2	42.0	1.38	1.16	65.7	79.90	79.90	6.25	23.1			
08/28/77	101.74				100.36	98.14	14.22	3078.0	-7.0	701.9	1.02	59.7	984.6	9.8	1.04	0.88	51.8	79.91	79.91	6.23	24.8			
09/04/77	101.78				100.40	98.09	14.31	3037.8	-36.3	696.0	0.64	37.4	617.8	6.2	1.15	0.98	57.2	80.01	80.01	6.07	24.7			
09/11/77	101.58				100.31	98.94	14.37	2935.2	-102.6	687.5	0.00	0.0	0.0	0.0	1.59	1.35	78.6	80.01	80.01	5.93	23.9			
09/18/77	101.67				100.31	98.14	14.17	3073.5	138.3	701.8	3.38	192.5	3243.5	32.4	1.48	1.11	63.6	80.07	80.07	6.07	23.0			
09/25/77	101.83				100.54	98.15	14.39	3081.3	7.8	702.4	1.27	74.3	1229.0	12.3	1.23	0.93	54.7	80.25	80.25	5.90	24.1			
10/02/77	101.42				100.41	98.08	14.33	3038.8	-44.7	697.9	0.49	28.7	473.0	4.7	1.23	0.93	54.7	80.22	80.22	5.87	23.4			
10/09/77	101.20				100.23	98.97	14.26	2955.0	-81.7	689.5	0.03	1.7	29.0	0.3	1.37	1.04	60.8	80.11	80.11	5.88	23.1			
10/16/77	100.98				100.09	98.87	14.22	2890.8	-64.2	682.8	0.06	3.4	57.9	0.6	1.04	0.79	45.4	79.95	79.95	5.82	22.8			
10/23/77	100.78				99.98	98.77	14.19	2823.5	-67.3	675.8	0.00	0.0	0.0	0.0	1.10	0.78	44.4	79.83	79.83	5.94	22.8			
10/30/77	100.81				99.86	98.89	14.17	2786.4	-57.1	669.8	0.00	0.0	0.0	0.0	0.86	0.61	34.4	79.82	79.82	5.87	22.7			
11/06/77	100.51				99.79	98.64	14.15	2732.2	-34.2	666.1	0.21	11.7	202.7	2.0	0.85	0.68	25.8	79.84	79.84	5.70	22.2			
11/13/77	100.24				99.67	98.55	14.12	2672.5	-59.7	659.7	0.00	0.0	0.0	0.0	0.97	0.69	36.2	79.82	79.82	6.03	21.4			
11/20/77	100.08				99.59	98.48	14.13	2615.8	-56.7	653.8	0.00	0.0	0.0	0.0	0.75	0.62	34.2	79.47	79.47	5.99	22.6			
11/27/77	100.00				99.63	98.50	14.13	2638.8	22.8	656.0	1.30	70.8	1254.9	12.5	0.85	0.71	38.4	79.49	79.49	6.00	22.1			
12/04/77	99.93				99.67	98.49	14.18	2636.0	-2.8	655.8	0.75	41.0	724.0	7.2	0.83	0.82	28.8	79.84	79.84	6.85	22.2			
12/11/77	99.77				99.65	98.52	14.13	2653.4	17.4	657.8	1.13	81.7	1090.8	10.9	0.74	0.81	33.8	79.48	79.48	6.08	21.7			
12/18/77	99.74				99.81	98.61	14.20	2711.4	58.0	663.9	1.85	84.9	1498.3	15.0	0.48	0.35	19.4	79.81	79.81	5.79	22.6			
12/25/77	99.84				99.88	98.67	14.19	2754.0	42.8	688.4	1.35	74.7	1303.2	13.0	0.55	0.42	23.4	79.98	79.98	5.89	21.7			
01/01/78	99.84				99.89	98.68	14.21	2763.1	9.1	689.4	0.79	44.0	762.6	7.6	0.49	0.38	21.0	79.98	79.98	5.71	21.6			
01/08/78	99.52				99.87	98.85	14.22	2741.3	-21.8	687.1	0.41	22.9	395.8	4.0	0.63	0.49	27.1	80.21	80.21	5.45	21.8			
01/15/78	99.42				99.91	98.77	14.14	2822.9	81.6	675.7	2.09	116.2	2017.5	20.2	0.80	0.62	34.2	80.06	80.06	5.71	20.5			
01/22/78	99.86				100.19	98.03	14.18	2967.1	174.2	693.8	3.29	185.3	3175.9	31.8	0.54	0.37	21.0	80.32	80.32	5.70	21.8			
01/29/78	99.48				100.13	98.97	14.16	2967.3	-39.8	689.7	0.22	12.7	212.4	2.1	0.81	0.66	32.3	80.72	80.72	5.25	22.4			
02/05/78	99.30				100.19	98.00	14.19	2978.7	21.4	691.9	0.83	47.7	801.2	8.0	0.35	0.24	13.9	81.14	81.14	4.88	20.5			
02/12/78	99.30				100.21	98.08	14.15	3019.1	40.5	696.1	1.28	73.8	1236.8	12.4	0.67	0.48	28.7	81.11	81.11	4.98	19.0			
02/19/78	99.22				100.39	98.25	14.14	3158.4	137.2	710.0	2.78	160.1	2984.3	28.8	0.71	0.52	30.1	81.21	81.21	5.04	19.5			
02/26/78	99.10				100.33	98.18	14.17	3092.9	-63.4	703.8	0.00	0.0	0.0	0.0	1.00	0.73	43.2	81.11	81.11	5.05	20.2			
03/06/78	99.30				100.60	98.41	14.19	3286.0	173.1	720.9	3.33	195.2	3214.8	32.1	0.80	0.58	34.2	81.32	81.32	5.09	20.1			
03/12/78	100.18				100.59	98.42	14.17	3277.7	11.7	722.0	0.93	55.9	897.8	9.0	0.74	0.54	32.5	81.85	81.85	4.78	20.7			
03/19/78	100.38				100.60	98.36	14.24	3228.4	-49.2	717.2	0.37	22.3	357.2	3.6	1.10	0.92	55.6	81.82	81.82	4.53	19.5			
03/26/78	100.58				100.53	98.23	14.30	3140.3	-88.1	708.4	0.00	0.0	0.0	0.0	1.39	1.17	68.8	82.14	82.14	4.09	18.4			
04/02/78	100.59				100.43	98.10	14.33	3060.0	-90.3	699.2	0.00	0.0	0.0	0.0	1.49	1.25	73.9	82.20	82.20	3.91	18.4			
04/09/78	100.60				100.33	98.98	14.37	2949.9	-100.1	689.0	0.00	0.0	0.0	0.0	1.73	1.45	84.7	82.21	82.21	3.74	16.4			
04/16/78	100.61				100.25	98.86	14.37	2895.3	-54.6	683.3	0.64	31.0	521.3	5.2	1.62	1.33	76.3	82.21	82.21	3.67	14.8			
04/23/78	100.69				100.15	98.73	14.42	2794.9	-100.4	672.8	0.10	5.7	98.5	1.0	1.99	1.63	92.9	82.12	82.12	3.61	14.1			
04/30/78	100.55				100.01	98.57	14.44	2688.9	-108.0	661.3	0.00	0.0	0.0	0.0	2.05	1.68	94.2	81.98	81.98	3.59	13.7			
05/07/78	100.79				100.21	98.73	14.48	2793.8	108.8	672.7	2.82	158.4	2722.2	27.2	1.38	1.13	82.4	82.07	82.07	3.68	13.4			
05/14/78	100.83				100.19	98.81	14.58	2716.0	-77.8	664.4	0.28	15.7	270.3	2.7	1.79	1.47	82.3	82.12	82.12	3.49	13.9			
05/21/78	100.71				100.07	98.49	14.58	2637.0	-79.0	655.9	0.29	16.1	279.9	2.8	1.80	1.53	84.7	81.98	81.98	3.53	13.1			
05/28/78	100.59				99.93	98.34	14.59	2536.3	-100.8	644.8	0.08	3.3	57.9	0.6	1.97	1.67	91.5	81.78	81.78	3.58	13.1			
06/04/78	100.89				99.97	98.44	14.53	2603.9	87.6	652.3	2.54	136.5	2451.9	24.5	1.76	1.50	80.4	81.90	81.90	3.55	13.0			
06/11/78	100.89				100.04	98.42	14.82	2500.8	-13.3	650.8	0.95	51.6	917.1	9.2	1.32	1.12	61.0	81.79	81.79	3.64	13.1			
06/18/78	100.81				100.11	98.26	14.85	2484.7	-106.0	639.1	0.08	4.3	77.2	0.8	1.98	1.80	97.7	81.79	81.79	3.46	13.4			
06/25/78	100.88				100.17	98.15	15.01	2422.8	-62.0	632.2	0.33	17.6	318.8	3.2	1.45	1.32	70.3	81.76	81.76	3.40	12.5			
07/02/78	100.89				100.20	94.98	15.22	2309.8	-112.8	619.3	0.00	0.0	0.0	0.0	2.10	1.91	100.7	81.72	81.72	3.28	12.2			
07/09/78	101.39				100.39	98.12	15.27	2395.0	85.2	629.0	2.91	150.2	2809.1	28.1	1.74	1.58	81.7	81.87	81.87	3.25	11.4			
07/16/78	101.84				100.41	98.20	15.21	2449.9	58.0	635.2	2.14	112.2	2066.8	20.7	1.39	1.26	68.3	82.00	82.00	3.21	11.5			
07/23/78	101.79				100.49	98.21	15.28	2453.8	3.8	636.7	1.23	85.1	1187.4	11.9	1.28	1.18	61.7	81.98	81.98	3.23	11.8			
07/30/78	102.04				100.51	98.47	15.04	2620.7	187.0	654.1	3.96	209.8	3822.7	38.2	1.44	1.31	69.4	82.14	82.14	3.33	11.6			
08/06/78	103.20				101.36																			

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -89613.29 C3 = 593.7937 C4 = -1.8903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Genevite Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Effective Discharge =	90%	Geneva Discharge cfs	Geneva Discharge ac-feet				Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet													
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet																		
10/01/78	108.19				100.75	85.48	15.27			2831.0	-19.4	855.2	0.40	21.9	386.1	3.9	0.91	0.89	37.9	83.87	1.92	7.3
10/08/78	108.10				100.66	85.38	15.28			2563.3	-87.7	847.8	0.00	0.0	0.0	0.0	1.48	1.11	80.6	83.25	2.13	7.1
10/15/78	108.09				100.64	85.30	15.24			2509.7	-53.5	841.9	0.01	0.5	9.7	0.1	1.13	0.88	48.4	83.29	2.01	7.8
10/22/78	108.01				100.45	85.22	15.23			2482.2	-47.5	836.6	0.00	0.0	0.0	0.0	1.06	0.75	40.3	83.15	2.08	7.3
10/29/78	108.94				100.39	85.16	15.23			2420.7	-41.5	831.9	0.10	5.3	98.5	1.0	1.07	0.78	40.3	83.09	2.07	7.5
11/05/78	108.79				100.27	85.08	15.19			2371.8	-48.9	828.4	0.00	0.0	0.0	0.0	1.11	0.79	41.5	82.96	2.22	7.4
11/12/78	108.85				100.22	85.02	15.20			2333.9	-37.9	822.1	0.00	0.0	0.0	0.0	0.81	0.58	30.0	82.89	2.33	7.8
11/19/78	108.86				100.18	84.95	15.23			2289.8	-44.3	817.0	0.00	0.0	0.0	0.0	0.84	0.70	36.1	82.47	2.48	8.2
11/26/78	108.40				100.10	84.88	15.22			2248.1	-41.5	812.2	0.00	0.0	0.0	0.0	0.77	0.64	32.9	82.47	2.41	8.8
12/03/78	108.86				100.15	85.09	15.06			2377.4	129.2	827.0	2.84	144.9	2741.5	27.4	0.82	0.68	34.7	82.42	2.68	8.3
12/10/78	108.41				100.21	85.05	15.16			2351.7	-26.6	824.1	0.25	13.1	241.3	2.4	0.73	0.81	31.7	82.27	2.78	9.4
12/17/78	108.30				100.09	85.03	15.06			2338.1	-13.6	822.6	0.36	18.7	347.5	3.5	0.85	0.50	28.0	82.19	2.84	9.8
12/24/78	108.20				100.01	85.00	15.01			2320.9	-17.2	820.6	0.35	18.2	337.9	3.4	0.72	0.85	28.8	82.43	2.68	10.0
12/31/78	108.21				100.11	85.04	15.07			2348.8	29.9	823.9	0.99	51.2	955.7	9.8	0.90	0.48	23.9	82.26	2.78	9.0
01/07/79	108.28				100.17	85.14	15.03			2408.3	69.5	830.5	1.58	81.1	1506.9	15.1	0.87	0.52	26.8	82.37	2.77	9.8
01/14/79	108.26				100.31	85.36	14.95			2550.9	142.6	848.4	2.79	148.6	2893.3	26.9	0.82	0.40	21.0	82.40	2.98	9.9
01/21/79	108.35				100.31	85.54	14.77			2667.4	118.5	859.1	2.32	125.0	2236.6	22.4	0.54	0.37	20.1	82.86	2.88	10.8
01/28/79	108.46				100.50	85.83	14.87			2730.0	82.6	865.9	1.54	84.6	1486.6	14.9	0.89	0.48	26.2	82.86	3.07	10.7
02/04/79	108.56				100.49	85.82	14.87			2720.2	-9.8	864.8	0.48	26.6	483.4	4.8	0.77	0.53	28.5	82.42	3.20	11.6
02/11/79	108.73				100.54	85.88	14.86			2758.7	36.5	868.9	1.10	90.9	1061.9	10.8	0.55	0.38	21.0	82.82	3.15	12.0
02/18/79	108.81				100.50	85.82	14.88			2717.5	-41.2	864.5	0.00	0.0	0.0	0.0	0.72	0.53	29.3	82.80	3.12	11.8
02/25/79	108.07				100.55	85.88	14.87			2760.8	43.1	869.1	1.24	68.7	1197.0	12.0	0.64	0.47	25.9	82.79	2.89	11.7
03/04/79	108.19				100.59	85.81	14.98			2713.4	-47.2	864.1	0.00	0.0	0.0	0.0	0.89	0.65	36.2	82.48	3.15	10.9
03/11/79	108.66				100.72	85.83	15.09			2723.8	10.4	865.2	1.00	55.3	985.3	9.7	1.06	0.77	42.8	82.86	2.98	11.8
03/18/79	108.63				100.83	85.82	15.11			2662.9	-71.2	857.5	0.00	0.0	0.0	0.0	1.29	1.08	60.1	82.46	3.08	11.1
03/25/79	108.70				100.87	85.41	15.18			2679.9	-72.7	849.8	0.17	9.3	184.1	1.8	1.87	1.32	72.3	82.82	2.79	11.4
04/01/79	108.87				100.43	85.28	15.15			2501.0	-78.9	840.9	0.00	0.0	0.0	0.0	1.51	1.27	68.7	82.31	2.98	10.2
04/08/79	108.90				100.87	85.49	15.18			2632.5	131.4	855.4	3.23	172.5	3118.0	31.2	1.37	1.16	61.5	82.48	3.03	10.8
04/15/79	107.07				100.73	85.56	15.17			2681.7	49.3	860.7	2.07	113.1	1998.2	20.0	1.82	1.33	72.5	82.61	3.08	11.2
04/22/79	107.02				100.68	85.43	15.13			2593.6	-88.2	851.1	0.00	0.0	0.0	0.0	1.70	1.39	78.8	82.31	3.12	11.4
04/29/79	107.17				100.85	85.55	15.10			2678.1	82.5	860.1	2.48	134.6	2394.0	23.9	1.46	1.19	64.5	82.43	3.12	11.5
05/06/79	107.28				100.84	85.60	15.04			2703.9	27.8	863.1	1.85	90.8	1592.8	15.9	1.49	1.22	67.2	82.48	3.12	11.8
05/13/79	107.28				100.63	85.82	15.01			2719.7	15.7	864.8	1.19	65.8	1148.7	11.5	1.10	0.90	49.8	82.59	3.03	11.7
05/20/79	107.18				100.53	85.53	15.00			2682.9	-58.8	858.7	0.41	22.7	398.8	4.0	1.53	1.30	72.0	82.70	2.83	11.4
05/27/79	108.93				100.41	85.42	14.99			2589.5	-73.4	850.7	0.27	14.8	280.6	2.8	1.72	1.48	80.2	82.86	2.87	10.5
06/03/79	108.89				100.33	85.40	14.93			2672.8	-16.8	848.8	1.06	58.9	1013.6	10.1	1.59	1.35	73.3	82.56	2.83	10.5
06/10/79	108.85				100.17	85.25	14.85			2479.7	-83.1	838.6	0.00	0.0	0.0	0.0	1.80	1.53	82.7	82.41	2.84	10.4
06/17/79	108.86				100.27	85.17	15.10			2431.4	-48.2	833.2	0.49	26.1	473.0	4.7	1.42	1.29	68.8	82.56	2.80	10.3
06/24/79	108.41				100.17	85.29	14.91			2487.2	55.7	839.4	2.28	120.3	2201.0	22.0	1.81	1.47	77.3	82.48	2.78	9.3
07/01/79	108.33				100.15	85.22	14.93			2458.6	-28.5	836.2	0.97	51.7	936.4	9.4	1.84	1.49	79.5	82.62	2.70	10.1
07/08/79	108.31				100.05	85.11	14.94			2368.8	-89.8	828.3	0.48	25.4	483.4	4.8	1.87	1.70	90.2	82.63	2.47	8.7
07/15/79	108.24				100.11	85.02	15.09			2336.2	-52.6	822.4	0.50	26.2	482.7	4.8	1.57	1.43	74.8	82.61	2.42	8.8
07/22/79	108.27				100.21	85.08	15.13			2368.7	32.5	826.1	1.84	85.1	1583.1	15.8	1.27	1.18	59.9	82.72	2.38	8.5
07/29/79	108.13				100.15	84.99	15.18			2317.1	-51.8	820.2	0.58	29.2	540.6	5.4	1.84	1.49	77.9	82.87	2.32	8.3
08/05/79	108.06				100.10	85.03	15.07			2338.8	21.5	822.6	1.81	83.2	1564.2	15.5	1.47	1.34	69.1	82.73	2.30	8.1
08/12/79	108.71				100.05	85.32	14.73			2624.2	185.7	843.5	4.20	217.9	4064.4	40.5	1.37	1.25	64.7	82.78	2.54	8.1
08/19/79	108.79				100.00	85.25	14.75			2478.8	-45.4	838.5	0.36	18.8	337.9	3.4	1.28	1.09	58.3	82.73	2.52	9.2
08/26/79	108.71				99.98	85.29	14.89			2501.5	22.9	841.0	1.80	85.1	1544.5	15.4	1.52	1.29	68.7	82.85	2.63	9.1
09/02/79	108.53				99.95	85.28	14.89			2487.2	-14.4	839.4	0.98	51.3	926.7	9.3	1.44	1.22	65.4	82.84	2.62	9.5
09/09/79	108.51				100.05	85.48	14.81			2828.5	141.3	854.9	3.36	179.0	3243.5	32.4	1.34	1.14	60.7	82.60	2.88	9.5
09/16/79	108.70				100.15	85.67	14.48			2750.8	122.3	868.1	2.82	153.9	2722.2	27.2	1.18	0.88	48.1	82.80	2.87	10.7
09/23/79	108.74				100.21	85.61	14.80			2712.2	-38.7	864.0	0.28	14.5	251.0	2.5	1.08	0.81	44.9	83.03	2.58	10.8
09/30/79	108.88				100.29	85.07	14.22			3023.4	311.3	896.5	5.87	313.7	5473.4	54.7	1.13	0.98	47.5	83.35	2.72	9.7
10/07/79	108.77				100.21	85.87	14.24			2968.8	-84.8	889.9	0.08	4.6	77.2	0.8	1.35	1.03	58.8	83.37	2.80	10.7
10/14/79	108.86				100.11	85.89	14.22			2903.0	-85.5	884.1	0.02	1.1	19.3	0.2	1.07	0.81	48.8	83.34	2.65	10.1
10/21/79	108.86				100.01	85.81	14.20			2847.4	-85.6	878.3	0.00	0.0	0.0	0.0	1.13	0.80	48.7	83.30	2.51	9.9
10/28/79	108.42				99.91	85.73	14.18			2791.1	-88.3	872.4	0.01	0.6	9.7	0.1	1.18	0.84	47.4	83.29	2.43	9.6
11/04/79	108.43				99.97	85.70	14.27			2771.7	-19.4	870.3	0.53	29.7	511.6	5.1	1.					

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711789.8 C2 = -88613.29 C3 = 583.7937 C4 = -1.8903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day		
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Discharge = 90%					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft				Geneva Leakage ac-feet		
			Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet																				
01/08/80	106.89				100.30	85.98	14.34				2961.2	40.8	689.1	1.10	62.8	1081.9	10.8	0.54	0.42	23.7	83.32	2.64	9.1	
01/13/80	106.07				100.30	86.07	14.23				3026.1	74.9	698.8	1.50	86.1	1448.0	14.5	0.36	0.27	15.5	83.40	2.67	10.3	
01/20/80	106.15				100.30	86.04	14.26				3008.5	-17.8	696.0	0.22	12.8	212.4	2.1	0.56	0.36	22.0	83.39	2.72	10.5	
01/27/80	106.51				100.36	86.29	14.10				3181.4	173.0	712.5	3.25	186.2	3137.3	31.4	0.90	0.82	36.0	83.65	2.64	10.7	
02/03/80	106.71				100.41	86.25	14.16				3153.6	-27.9	709.7	0.13	7.7	125.5	1.3	0.64	0.44	26.2	83.60	2.65	10.8	
02/10/80	106.77				100.36	86.20	14.16				3119.4	-34.2	706.3	0.12	7.1	115.8	1.2	0.78	0.54	31.8	83.89	2.31	10.8	
02/17/80	106.92				100.35	86.21	14.14				3127.0	7.7	707.0	0.61	35.9	588.9	5.9	0.56	0.42	24.9	83.92	2.29	9.2	
02/24/80	107.12				100.36	86.26	14.10				3157.9	30.9	710.1	1.13	66.8	1090.8	10.9	0.87	0.64	37.4	83.81	2.44	9.2	
03/02/80	107.12				100.35	86.22	14.13				3130.9	-27.1	707.4	0.27	16.0	260.6	2.6	0.83	0.61	35.9	83.90	2.22	9.8	
03/09/80	107.34				100.41	86.22	14.18				3135.4	4.5	707.9	0.88	50.7	830.2	8.3	1.06	0.77	45.6	83.88	2.35	8.9	
03/16/80	107.48				100.45	86.21	14.24				3124.0	-11.4	708.7	0.83	49.0	801.2	8.0	1.19	1.00	59.0	83.89	2.32	9.4	
03/23/80	107.60				100.36	86.11	14.25				3061.6	-72.3	699.4	0.04	2.4	38.8	0.4	1.33	1.12	65.8	83.84	2.27	9.3	
03/30/80	107.61				100.42	86.10	14.31				3048.7	-2.9	699.1	0.99	57.7	955.7	9.6	1.26	1.06	81.2	84.10	2.00	9.0	
04/06/80	107.88				100.50	86.31	14.19				3195.9	147.1	713.9	3.14	182.9	3031.1	30.3	1.19	1.00	86.2	84.10	2.21	7.9	
04/13/80	107.95				100.43	86.21	14.22				3127.1	-68.8	707.0	0.15	8.9	144.8	1.4	1.44	1.19	70.3	84.21	2.00	8.9	
04/20/80	107.98				100.37	86.19	14.18				3113.9	-13.1	705.7	0.89	52.4	859.1	8.6	1.37	1.12	66.2	84.28	1.93	8.0	
04/27/80	107.94				100.28	86.06	14.22				3021.3	-92.6	696.3	0.00	0.0	0.0	0.0	1.76	1.44	84.9	84.07	1.99	7.7	
05/04/80	107.79				100.24	85.98	14.28				2949.2	-72.2	688.9	0.02	1.2	19.3	0.2	1.36	1.13	65.7	83.95	2.01	7.8	
05/11/80	107.83				100.23	86.06	14.15				3031.4	82.2	697.3	2.29	131.5	2210.6	22.1	1.35	1.11	63.6	83.95	2.13	7.8	
05/18/80	107.90				100.24	86.08	14.17				3019.8	-11.6	696.2	0.90	52.3	868.8	8.7	1.30	1.11	64.2	83.95	2.11	8.4	
05/25/80	108.07				100.32	86.11	14.21				3058.8	36.8	699.9	1.84	106.7	1776.2	17.8	1.61	1.37	79.4	84.15	1.96	8.3	
06/01/80	107.95				100.30	85.99	14.31				2998.1	-88.5	690.9	0.03	1.7	29.0	0.3	1.67	1.42	82.8	83.90	2.08	7.8	
06/08/80	107.79				100.18	85.82	14.36				2867.7	-110.4	679.4	0.00	0.0	0.0	0.0	2.06	1.78	102.3	83.61	2.21	8.1	
06/15/80	107.60				100.04	85.70	14.34				2772.9	-84.7	670.4	0.21	11.9	202.7	2.0	1.76	1.59	90.2	83.37	2.32	8.5	
06/22/80	107.59				100.00	85.63	14.37				2724.4	-48.5	665.3	0.89	38.6	666.1	6.7	1.87	1.52	84.9	83.27	2.35	8.8	
06/29/80	107.51				100.03	85.63	14.40				2726.6	2.2	665.5	1.20	66.5	1158.4	11.6	1.33	1.21	67.1	83.17	2.46	8.8	
07/06/80	107.41				100.00	85.67	14.43				2683.9	-42.7	660.9	0.78	43.3	763.0	7.5	1.67	1.52	84.3	82.83	2.74	9.2	
07/13/80	107.34				99.97	85.46	14.51				2617.7	-66.2	653.8	0.70	36.6	675.7	6.8	2.02	1.84	101.2	82.93	2.54	10.2	
07/20/80	107.23				99.89	85.37	14.52				2557.0	-60.7	647.1	0.66	36.0	637.1	6.4	1.89	1.72	93.7	82.90	2.47	9.4	
07/27/80	107.82				100.03	85.80	14.23				2644.2	267.2	678.0	5.74	309.5	5541.0	55.4	1.40	1.27	66.7	83.17	2.63	9.0	
08/03/80	107.83				100.19	85.76	14.43				2812.4	-31.8	674.6	0.97	54.8	936.4	9.4	1.67	1.52	85.9	83.25	2.51	10.1	
08/10/80	107.80				100.07	85.85	14.42				2738.9	-73.6	666.8	0.38	21.4	366.8	3.7	1.74	1.58	89.0	83.24	2.41	9.6	
08/17/80	108.21				100.19	85.83	14.56				2730.1	-8.8	665.9	0.99	56.0	965.7	9.6	1.36	1.16	64.2	83.42	2.22	9.1	
08/24/80	108.13				100.32	85.98	14.86				2745.7	15.8	667.5	1.33	73.8	1283.9	12.8	1.33	1.13	62.7	83.44	2.22	8.3	
08/31/80	108.23				100.17	85.58	14.59				2695.8	-49.9	662.2	0.48	26.7	463.4	4.6	1.54	1.31	72.8	83.33	2.25	8.4	
09/07/80	107.88				100.05	85.52	14.53				2657.4	-38.4	656.1	0.55	30.4	530.9	5.3	1.40	1.19	65.7	83.34	2.19	8.4	
09/14/80	107.71				99.97	85.47	14.50				2622.9	-34.5	654.3	0.38	20.8	366.8	3.7	1.22	0.93	50.8	83.12	2.35	8.1	
09/21/80	107.72				100.02	85.46	14.56				2616.7	-6.2	653.6	0.82	44.7	791.8	7.9	1.21	0.92	50.1	83.11	2.35	8.7	
09/28/80	107.56				100.09	85.44	14.65				2599.6	-17.1	651.8	0.65	35.4	627.5	6.3	1.21	0.92	50.1	82.91	2.53	8.7	
10/05/80	107.48				100.00	85.49	14.51				2635.0	35.4	655.6	1.48	79.3	1409.4	14.1	1.18	0.90	48.7	82.82	2.87	9.3	
10/12/80	107.26				99.94	85.40	14.54				2572.7	-62.2	648.8	0.00	0.0	0.0	0.0	1.26	0.96	52.3	82.78	2.61	9.8	
10/19/80	107.06				99.88	85.31	14.57				2518.3	-56.4	642.6	0.00	0.0	0.0	0.0	1.22	0.87	48.8	82.66	2.66	9.6	
10/26/80	106.91				99.82	85.32	14.50				2521.5	5.2	643.2	0.80	42.8	772.3	7.7	0.94	0.87	36.7	82.37	2.95	9.6	
11/02/80	106.63				99.75	85.34	14.41				2534.3	12.8	644.6	0.75	40.2	724.0	7.2	0.83	0.45	24.0	82.42	2.92	10.7	
11/09/80	106.64				99.74	85.31	14.43				2515.3	-19.0	642.5	0.32	17.2	308.9	3.1	0.76	0.53	26.8	82.37	2.94	10.6	
11/16/80	106.52				99.55	85.23	14.32				2489.5	-45.8	637.4	0.00	0.0	0.0	0.0	0.79	0.66	35.1	82.36	2.86	10.7	
11/23/80	106.35				99.59	85.23	14.36				2485.2	-4.4	636.9	0.53	28.2	511.8	5.1	0.62	0.51	27.3	82.32	2.90	10.3	
11/30/80	106.24				99.65	85.23	14.42				2489.5	4.3	637.4	0.58	30.8	559.9	5.6	0.49	0.41	21.6	82.24	2.99	10.4	
12/07/80	106.05				99.53	85.17	14.36				2427.9	-41.6	632.8	0.00	0.0	0.0	0.0	0.70	0.58	30.9	82.31	2.86	10.8	
12/14/80	105.90				99.50	85.11	14.39				2390.4	-37.4	628.5	0.00	0.0	0.0	0.0	0.87	0.82	27.2	82.07	3.04	10.2	
12/21/80	106.74				99.44	85.07	14.37				2362.8	-27.6	625.4	0.21	11.0	202.7	2.0	0.74	0.57	29.8	81.95	3.22	10.8	
12/28/80	106.62				99.43	85.02	14.41				2332.7	-30.1	622.0	0.08	3.1	57.9	0.6	0.56	0.43	22.5	82.01	3.00	11.4	
01/04/81	106.33				99.39	84.98	14.43				2299.2	-33.5	618.1	0.01	0.5	9.7	0.1	0.59	0.45	23.5	81.79	3.19	10.8	
01/11/81	106.19				99.29	84.98	14.31				2311.7	12.5	619.6	0.75	36.6	724.0	7.2	0.56	0.43	22.2	81.46	3.53	11.1	
01/18/81	104.93				99.22	84.93	14.29				2278.9	-32.9	615.6	0.02	1.0	19.3	0.2	0.81	0.42	21.7	81.26	3.87	12.3	
01/25/81	104.83				99.17	84.90	14.27				2281.5	-17.4	613.7	0.29	14.9	279.9	2.8	0.63	0.43	22.3	81.34	3.56	12.8	
02/01/81	104.83				99.14	84.85	14.29				2228.3	-33.1	609.9	0.14	7.2	135.1	1.4	0.83	0.57	29.3	81.29	3.56	12.4	
02/08/81	104.73				99.28	84.99	14.27</																	

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -89613.29 C3 = 593.7937 C4 = -1.6903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet													
	ft	cfs	ac-feet	ac-feet					cfs	ac-feet	ac-feet	ac-feet													
04/05/81	104.39				99.90	84.97	14.83		2300.5	-33.2	818.3	0.86	34.2	637.1	6.4	1.44	1.21	1.44	1.21	62.7	81.90	3.06	11.1		
04/12/81	104.21				99.48	84.84	14.64		2225.6	-75.0	809.6	0.02	1.0	19.3	0.2	1.55	1.27	1.55	1.27	65.5	81.69	3.16	10.7		
04/19/81	104.04				99.37	84.71	14.66		2147.2	-78.4	800.4	0.00	0.0	0.0	0.0	1.82	1.33	1.82	1.33	67.5	81.58	3.13	10.9		
04/26/81	103.84				99.26	84.63	14.63		2096.9	-50.3	804.4	0.38	19.0	398.8	3.7	1.52	1.25	1.52	1.25	62.4	81.48	3.15	10.6		
05/03/81	103.56				99.12	84.49	14.63		2011.8	-85.3	804.1	0.00	0.0	0.0	0.0	1.84	1.51	1.84	1.51	74.7	80.96	3.52	10.6		
05/10/81	103.36				98.98	84.34	14.63		1929.5	-82.1	874.0	0.06	2.4	48.3	0.5	1.84	1.51	1.84	1.51	73.4	80.81	3.74	11.8		
05/17/81	103.07				98.85	84.10	14.87		1836.7	-93.8	862.2	0.00	0.0	0.0	0.0	2.01	1.71	2.01	1.71	81.7	80.81	3.57	12.1		
05/24/81	102.82				98.72	84.00	14.72		1734.7	-100.9	849.3	0.00	0.0	0.0	0.0	2.25	1.91	2.25	1.91	89.6	80.38	3.82	11.3		
05/31/81	102.71				98.58	83.91	14.87		1687.4	-47.4	843.1	0.78	35.7	753.0	7.5	2.04	1.73	2.04	1.73	79.4	80.41	3.50	11.2		
06/07/81	102.36				98.48	83.88	14.60		1689.1	-18.2	840.7	1.37	62.0	1322.5	13.2	2.15	1.83	2.15	1.83	82.7	80.39	3.49	10.7		
06/14/81	102.34				98.44	83.91	14.53		1686.4	17.3	843.0	1.92	86.5	1853.4	18.5	1.88	1.71	1.88	1.71	77.1	80.34	3.58	10.7		
06/21/81	102.15				98.35	84.01	14.34		1740.7	54.3	850.0	2.77	125.3	2674.0	26.7	2.11	1.82	2.11	1.82	98.9	80.31	3.70	10.9		
06/28/81	101.90				98.37	83.94	14.43		1704.2	-36.5	845.3	0.73	33.5	704.7	7.0	1.57	1.43	1.57	1.43	65.5	80.24	3.70	11.5		
07/05/81	101.73				98.26	83.79	14.46		1620.5	-83.8	834.3	0.00	0.0	0.0	0.0	1.75	1.59	1.75	1.59	72.4	80.15	3.63	11.4		
07/12/81	101.60				98.18	83.73	14.45		1590.0	-30.4	830.2	0.89	39.8	858.1	8.8	1.67	1.52	1.67	1.52	67.7	80.00	3.73	11.0		
07/19/81	101.69				98.31	83.71	14.59		1582.9	-7.1	829.2	1.24	54.8	1197.0	12.0	1.86	1.42	1.86	1.42	62.7	79.97	3.75	11.2		
07/26/81	101.48				98.31	83.59	14.72		1519.8	-83.1	820.7	0.06	2.2	48.3	0.5	1.36	1.24	1.36	1.24	54.6	79.96	3.84	11.2		
08/02/81	101.87				98.55	83.54	15.01		1491.0	-28.8	818.7	0.76	33.0	733.7	7.3	1.48	1.36	1.48	1.36	58.4	80.20	3.34	10.7		
08/09/81	101.46				98.68	83.56	15.10		1503.4	12.4	818.4	1.81	77.9	1747.3	17.5	1.87	1.70	1.87	1.70	73.3	80.19	3.38	9.8		
08/16/81	101.33				98.69	83.49	15.20		1484.7	-38.7	813.1	0.22	9.5	212.4	2.1	1.10	0.94	1.10	0.94	40.4	80.24	3.25	9.9		
08/23/81	101.36				98.72	83.48	15.24		1481.3	-3.4	812.8	0.78	33.4	753.0	7.5	0.98	0.82	0.98	0.82	34.9	80.23	3.26	9.4		
08/30/81	101.48				98.74	83.57	15.17		1506.9	45.8	818.9	1.89	80.7	1824.5	18.2	1.21	1.03	1.21	1.03	43.9	80.44	3.13	9.4		
09/06/81	101.29				98.77	83.49	15.28		1468.1	-38.6	813.8	0.28	12.1	270.3	2.7	1.21	1.03	1.21	1.03	44.5	80.51	2.99	9.2		
09/13/81	101.12				98.74	83.43	15.31		1437.4	-30.7	809.3	0.41	17.5	395.8	4.0	1.34	1.02	1.34	1.02	43.6	80.53	2.81	8.7		
09/20/81	101.11				98.71	83.40	15.31		1419.1	-18.2	806.7	0.86	28.0	637.1	6.4	1.38	1.05	1.38	1.05	44.5	80.71	2.69	8.1		
09/27/81	100.84				98.58	83.30	15.28		1369.7	-49.4	809.7	0.00	0.0	0.0	0.0	1.30	0.99	1.30	0.99	41.7	80.80	2.50	7.7		
10/04/81	100.67				98.45	83.18	15.27		1312.0	-67.7	801.5	0.00	0.0	0.0	0.0	1.80	1.22	1.80	1.22	50.6	80.84	2.54	7.1		
10/11/81	100.48				98.42	83.11	15.31		1275.1	-36.9	808.1	0.13	5.3	125.5	1.3	1.17	0.89	1.17	0.89	38.4	80.47	2.84	7.1		
10/18/81	100.16				98.36	83.02	15.33		1234.2	-40.9	800.1	0.00	0.0	0.0	0.0	1.17	0.83	1.17	0.83	33.6	80.34	2.88	7.2		
10/25/81	99.98				98.31	83.01	15.30		1227.7	-8.5	879.1	0.86	26.0	627.5	6.3	1.11	0.79	1.11	0.79	31.5	80.48	2.53	7.3		
11/01/81	99.86				98.31	82.98	15.35		1203.4	-24.4	875.5	0.07	2.8	67.6	0.7	0.74	0.53	0.74	0.53	21.0	80.37	2.59	6.8		
11/08/81	99.70				98.32	83.10	15.22		1269.4	86.0	885.2	2.00	79.2	1930.7	19.3	0.91	0.65	0.91	0.65	25.6	80.36	2.74	7.0		
11/15/81	99.60				98.34	83.20	15.14		1321.3	52.0	892.8	1.85	66.7	1592.8	15.9	0.89	0.67	0.89	0.67	23.2	80.47	2.73	7.5		
11/22/81	99.43				98.31	83.18	15.13		1308.8	-12.8	891.0	0.50	20.5	482.7	4.8	0.89	0.74	0.89	0.74	30.3	80.36	2.82	7.6		
11/29/81	99.21				98.30	83.11	15.19		1274.3	-34.5	898.0	0.01	0.4	9.7	0.1	0.80	0.66	0.80	0.66	27.2	80.33	2.77	7.8		
12/06/81	99.04				98.25	83.13	15.12		1267.1	12.8	887.8	0.95	38.5	917.1	9.2	0.81	0.67	0.81	0.67	27.2	80.19	2.95	7.8		
12/13/81	98.89				98.18	83.08	15.09		1265.8	-21.3	884.7	0.13	5.3	125.5	1.3	0.83	0.48	0.83	0.48	19.7	80.11	2.98	8.1		
12/20/81	98.84				98.10	83.03	15.07		1239.3	-26.5	880.9	0.02	0.8	19.3	0.2	0.82	0.48	0.82	0.48	19.3	79.90	3.13	8.2		
12/27/81	98.82				98.12	83.10	15.02		1272.4	33.1	885.7	1.06	42.5	1023.3	10.2	0.35	0.25	0.35	0.25	11.1	80.29	2.81	8.5		
01/03/82	98.59				98.21	83.13	15.07		1268.8	14.4	887.9	0.87	35.2	839.8	8.4	0.69	0.53	0.69	0.53	21.5	80.14	2.99	7.7		
01/10/82	98.34				98.24	83.13	15.11		1284.9	-1.9	887.5	0.58	23.6	559.9	5.6	0.73	0.56	0.73	0.56	22.8	80.03	3.10	8.2		
01/17/82	98.06				98.38	83.49	14.89		1485.8	180.9	813.2	4.08	185.8	3938.6	39.4	0.56	0.39	0.56	0.39	15.7	80.21	3.28	8.5		
01/24/82	98.54				98.50	83.43	15.07		1433.0	-32.8	808.7	0.00	0.0	0.0	0.0	0.79	0.55	0.79	0.55	23.3	80.50	2.93	9.5		
01/31/82	98.36				98.48	83.36	15.12		1399.1	-33.9	803.9	0.00	0.0	0.0	0.0	0.87	0.60	0.87	0.60	26.4	80.63	2.73	8.4		
02/07/82	98.24				98.48	83.42	15.06		1431.8	32.5	808.5	1.15	48.3	1110.1	11.1	0.86	0.48	0.86	0.48	19.1	80.50	2.63	7.8		
02/14/82	98.18				98.56	83.45	15.11		1442.9	11.2	810.0	0.77	32.6	743.3	7.4	0.86	0.48	0.86	0.48	20.4	80.45	2.98	8.4		
02/21/82	98.44				98.66	83.67	14.99		1558.3	115.4	825.8	3.08	130.9	2973.2	29.7	1.18	0.86	1.18	0.86	36.6	80.89	2.98	8.8		
02/28/82	98.82				98.57	83.80	14.87		1520.3	-38.0	820.7	0.00	0.0	0.0	0.0	0.91	0.66	0.91	0.66	29.1	80.50	3.10	8.8		
03/07/82	99.34				98.66	83.75	14.81		1600.8	80.3	831.8	2.27	98.5	2191.3	21.9	0.86	0.72	0.86	0.72	31.0	80.90	2.85	9.1		
03/14/82	99.36				98.62	83.66	14.97		1647.4	-53.2	824.4	0.00	0.0	0.0	0.0	1.20	1.01	1.20	1.01	44.7	80.73	2.92	8.8		
03/21/82	99.34				98.57	83.55	15.02		1498.5	-50.8	817.5	0.07	3.1	67.6	0.7	1.25	1.06	1.25	1.06	45.9	80.66	2.89	8.7		
03/28/82	99.42				98.90	83.89	14.81		1688.7	72.2	827.3	2.07	89.3	1998.2	20.0	0.79	0.66	0.79	0.66	28.6	80.53	3.15	8.4		
04/04/82	99.42				98.90	83.89	14.81		1671.0	2.3	827.8	1.01	44.4	975.0	9.7	1.15	0.97	1.15	0.97	42.4	80.74	2.95	9.4		
04/11/82	99.91				98.93	84.32	14.81		1917.9	348.8	872.5	7.80	334.2	7336.5	73.4	1.44	1.18	1.44	1.18	51.9	81.14	3.19	8.8		
04/18/82	100.06				98.93	84.21	14.72		1853.5	-84.3	864.5	0.04	1.9	38.6	0.4	1.44	1.18	1.44	1.18	56.3	8				

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711789.8 C2 = -89513.29 C3 = 593.7937 C4 = -1.8903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etoria Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day		
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Geneva Lake Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft				Geneva Leakage ac-feet		
																								Geneva Discharge cfs	Geneva Discharge ac-feet
07/04/82	101.12				98.94	84.09	14.85		1787.3	-79.0	556.0	0.05	2.4	48.3	0.5	1.71	1.56	73.4	81.88	2.42	8.4				
07/11/82	101.30				98.91	84.07	14.84		1772.9	-14.4	554.2	0.73	33.8	704.7	7.0	1.13	1.03	47.8	81.95	2.12	7.8				
07/18/82	101.39				98.92	84.15	14.77		1820.1	47.1	560.2	2.43	112.2	2345.8	23.5	1.95	1.77	82.0	82.03	2.12	6.8				
07/25/82	101.47				98.97	84.32	14.65		1915.0	94.9	572.2	2.86	133.5	2780.9	27.6	1.40	1.27	59.5	82.18	2.16	6.7				
08/01/82	101.74				98.98	84.27	14.59		1888.4	-28.8	568.8	0.74	35.3	714.3	7.1	1.43	1.30	62.0	82.27	2.00	7.0				
08/08/82	102.04				98.93	84.30	14.63		1905.5	17.0	571.0	1.47	68.7	1419.0	14.2	1.40	1.27	60.4	82.32	1.98	8.4				
08/15/82	102.73				98.90	84.20	14.70		1848.1	-57.3	563.8	0.12	5.7	116.8	1.2	1.43	1.22	57.8	82.63	1.57	8.4				
08/22/82	103.09				98.87	84.28	14.59		1895.4	47.3	589.7	1.72	80.8	1980.4	18.6	1.13	0.98	45.1	82.80	1.48	5.0				
08/29/82	103.38				98.83	84.47	14.36		2002.9	107.5	583.0	2.87	136.3	2770.5	27.7	1.28	1.09	51.7	82.98	1.58	4.8				
09/05/82	103.56				98.80	84.39	14.41		1956.9	-48.0	577.4	0.47	22.8	453.7	4.5	1.85	1.40	68.1	82.84	1.58	5.2				
09/12/82	103.65				98.77	84.68	14.09		2128.7	171.8	588.2	3.65	176.6	3523.5	35.2	0.93	0.71	34.0	82.96	1.70	5.1				
09/19/82	103.96				98.73	84.68	14.07		2114.6	-14.1	598.5	0.79	39.4	762.6	7.6	1.48	1.11	55.3	83.09	1.57	5.8				
09/26/82	104.12				98.69	84.80	13.89		2200.2	85.5	606.8	2.09	103.9	2017.5	20.2	0.88	0.87	33.2	83.30	1.50	5.3				
10/03/82	104.27				98.79	84.77	14.02		2179.1	-21.1	604.1	0.45	22.7	434.4	4.3	1.12	0.85	43.0	83.42	1.35	5.1				
10/10/82	104.42				98.84	84.74	14.10		2159.9	-19.1	601.9	0.51	25.7	492.3	4.9	1.18	0.90	45.1	83.56	1.37	4.8				
10/17/82	104.47				98.76	84.65	14.10		2114.3	-45.6	596.4	0.00	0.0	0.0	0.0	1.15	0.82	41.0	83.32	1.34	4.7				
10/24/82	104.56				98.84	84.68	13.96		2124.2	9.9	597.8	0.70	34.8	675.7	6.8	0.77	0.55	27.2	83.28	1.39	4.5				
10/31/82	104.58				98.87	84.61	14.06		2086.8	-37.8	593.1	0.00	0.0	0.0	0.0	0.93	0.68	32.9	83.24	1.38	4.7				
11/07/82	104.88				98.71	84.70	14.01		2139.8	53.0	599.5	1.51	74.8	1457.7	14.8	0.90	0.64	31.8	83.28	1.44	4.6				
11/14/82	104.82				98.83	84.64	13.99		2105.3	-33.8	595.4	0.14	7.0	135.1	1.4	0.90	0.75	37.3	83.28	1.38	4.9				
11/21/82	104.94				98.80	84.59	14.01		2073.8	-32.2	591.8	0.00	0.0	0.0	0.0	0.87	0.56	27.8	83.18	1.41	4.6				
11/28/82	104.94				98.56	84.53	14.03		2038.2	-35.4	587.3	0.00	0.0	0.0	0.0	0.75	0.62	30.7	83.22	1.31	4.7				
12/05/82	104.94				98.54	84.46	14.08		1996.1	-42.1	582.2	0.00	0.0	0.0	0.0	0.83	0.77	37.8	83.10	1.38	4.4				
12/12/82	105.04				98.54	84.50	14.04		2020.8	24.7	585.2	0.88	42.7	849.5	8.5	0.59	0.45	22.0	83.35	1.15	4.5				
12/19/82	104.90				98.50	84.51	13.99		2024.1	3.3	585.8	0.54	26.3	521.3	5.2	0.65	0.50	24.4	83.10	1.41	3.8				
12/26/82	104.83				98.48	84.45	14.01		1983.1	-31.0	581.8	0.00	0.0	0.0	0.0	0.70	0.54	26.3	82.97	1.48	4.7				
01/02/83	104.94				98.48	84.42	14.04		1976.5	-16.6	579.8	0.08	3.9	77.2	0.8	0.44	0.34	16.4	83.01	1.42	4.9				
01/09/83	104.91				98.45	84.48	13.99		1986.5	20.0	582.2	0.74	36.8	714.3	7.1	0.49	0.38	18.2	82.97	1.49	4.6				
01/16/83	104.83				98.45	84.42	14.03		1971.2	-25.3	579.1	0.00	0.0	0.0	0.0	0.81	0.42	20.4	82.81	1.61	4.9				
01/23/83	104.91				98.48	84.49	13.99		2014.4	43.2	584.4	1.13	54.5	1090.8	10.9	0.51	0.35	17.0	82.92	1.57	5.3				
01/30/83	104.86				98.56	84.54	14.02		2044.8	30.2	588.1	0.98	47.7	948.0	9.5	0.65	0.45	21.8	82.90	1.64	5.2				
02/06/83	105.06				98.62	84.65	13.97		2109.8	65.1	595.9	1.90	93.1	1834.1	18.3	1.21	0.83	40.9	83.08	1.57	5.5				
02/13/83	105.23				98.70	84.82	13.88		2208.3	98.7	607.6	2.12	105.3	2046.5	20.5	0.90	0.44	21.7	83.21	1.61	5.3				
02/20/83	105.27				98.82	84.84	13.98		2221.1	12.8	609.1	0.80	40.5	772.3	7.7	0.81	0.59	29.9	83.15	1.69	5.5				
02/27/83	105.27				98.81	84.80	14.01		2188.1	-23.0	606.4	0.28	14.2	270.3	2.7	0.92	0.67	34.1	83.28	1.52	5.8				
03/06/83	105.44				98.88	84.77	14.11		2178.5	-19.7	604.0	0.36	18.2	347.5	3.5	0.96	0.72	38.1	83.36	1.41	5.2				
03/13/83	105.38				98.97	84.98	13.99		2308.3	127.9	618.9	2.98	150.0	2876.7	28.8	1.09	0.82	48.1	83.49	1.48	4.8				
03/20/83	105.96				99.12	85.10	14.02		2385.2	78.8	627.9	2.20	113.5	2123.7	21.2	1.17	0.98	50.7	83.98	1.14	5.2				
03/27/83	106.22				99.35	85.15	14.19		2422.1	36.9	632.1	1.54	80.8	1488.8	14.9	1.24	1.04	54.5	84.10	1.06	4.1				
04/03/83	106.37				99.32	85.09	14.23		2377.0	-45.1	627.0	0.31	16.3	299.3	3.0	1.37	1.15	60.8	84.21	0.87	3.8				
04/10/83	106.80				99.25	85.21	14.04		2452.9	75.9	635.8	2.10	109.7	2027.2	20.3	1.19	0.98	51.0	84.32	0.89	3.1				
04/17/83	106.75				99.23	85.22	14.01		2460.5	7.6	636.4	1.31	69.4	1264.6	12.6	1.84	1.34	71.2	84.40	0.82	3.2				
04/24/83	107.14				99.32	85.48	13.84		2627.2	166.6	654.8	3.85	204.2	3718.5	37.2	1.85	1.35	71.8	84.78	0.70	3.0				
05/01/83	107.21				99.50	85.36	14.13		2551.2	-78.0	648.5	0.00	0.0	0.0	0.0	1.64	1.34	73.4	84.84	0.43	2.6				
05/08/83	107.33				99.49	85.34	14.14		2538.9	-12.2	645.1	1.00	53.9	985.3	9.7	1.69	1.39	74.2	84.88	0.46	1.6				
05/15/83	107.38				99.39	85.23	14.18		2484.8	-74.1	636.9	0.04	2.2	38.8	0.4	1.64	1.39	74.9	84.88	0.35	1.7				
05/22/83	107.41				99.31	85.38	13.93		2580.9	98.1	647.5	2.81	149.1	2712.8	27.1	1.75	1.49	78.9	84.82	0.78	1.2				
05/29/83	107.25				99.20	85.28	13.94		2487.5	-73.4	639.4	0.28	14.0	261.0	2.5	1.90	1.62	87.1	84.53	0.73	2.8				
06/05/83	107.24				99.23	85.27	13.96		2494.1	6.5	640.2	1.11	59.1	1071.5	10.7	1.34	1.14	80.7	84.81	0.47	2.6				
06/12/83	107.44				99.37	85.49	13.88		2637.2	143.2	655.9	3.54	188.8	3417.3	34.2	1.81	1.47	78.2	84.86	0.93	1.7				
06/19/83	107.38				99.44	85.38	14.06		2583.4	-73.8	647.8	0.26	14.2	261.0	2.5	1.75	1.59	87.0	84.74	0.84	3.5				
06/26/83	107.78				99.51	85.70	13.81		2775.3	211.8	670.7	4.23	228.4	4083.4	40.8	1.12	1.02	55.0	84.74	0.98	2.3				
07/03/83	106.27				99.58	85.70	13.88		2771.8	-3.7	670.3	1.07	59.8	1032.9	10.3	1.38	1.28	70.2	85.01	0.89	3.6				
07/10/83	106.48				99.61	85.71	13.90		2779.1	7.5	671.1	1.52	84.9	1467.3	14.7	1.76	1.60	89.5	84.84	0.86	2.6				
07/17/83	106.80				99.54	85.65	13.89		2742.3	-36.8	667.2	0.77	43.1	743.3	7.4	1.65	1.50	84.0	84.85	0.80	3.3				
07/24/83	106.85				99.43	85.54	13.89		2868.0	-74.4	659.2	0.17	9.5	164.1	1.6	1.63	1.48	82.5	84.83	0.72	3.0				
07/31/83	106.88				99.43	85.57	13.86		2889.7	21.8	661.6	1.64	90.1	1583.1	15.8	1.63	1.48	81.5	84.89	0.88	2.7				
08/07/83	106.06				99.50	85.81	13.89		2715.4	25.7	664.3	1.42	78.3	1376.8	13.7	1.18	1.18	63.7	84.99	0.82	2.8				
08/14/83	106.25				99.54	85.84	14.00		2689.6	-45.9	659.4	0.09	5.0	88.9	0.9	1.05	0.89	49.4	85.05	0.49	2.3				
08/21/83	106.28				99.54																				

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -69613.29 C3 = 693.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.398				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. In/week	Lake Surface Precip. ac-feet	Drainage area = 11684 Runoff Coeff. = 0.01		Gainesville Pan Evap. In/week	Geneva Lake Evap. In/week	Geneva Lake Evap. ac-feet	Leakance = 0.071E-04 1/day		
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Discharge - 90% ac-feet	Effective Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Floridan Aquifer Elevation ft	Lake - Floridan Aquifer Elevation ft				Geneva Leakage ac-feet		
10/02/83	109.74				99.40	85.88	13.52			2897.7	-57.7	883.8	0.00	0.0	0.0	0.0	0.0	1.24	0.84	64.2	85.03	0.88	3.6	
10/09/83	109.84				99.40	85.83	13.57			2861.8	-35.9	879.8	0.31	17.7	299.3	3.0	1.23	0.83	63.2	84.98	0.86	3.3		
10/16/83	109.89				99.38	85.82	13.56			2852.5	-9.2	878.8	0.65	36.8	627.5	6.3	1.22	0.87	49.1	85.03	0.79	3.3		
10/23/83	109.93				99.36	85.80	13.56			2841.5	-11.1	877.7	0.40	22.6	386.1	3.9	0.86	0.81	34.5	85.10	0.70	3.0		
10/30/83	109.88				99.34	85.74	13.60			2799.1	-42.4	873.2	0.00	0.0	0.0	0.0	0.89	0.70	39.7	84.83	0.90	2.7		
11/06/83	109.92				99.30	85.72	13.58			2788.1	-11.0	872.1	0.37	20.8	357.2	3.6	0.80	0.57	31.9	84.84	0.79	3.4		
11/13/83	109.82				99.25	85.74	13.51			2802.4	14.3	873.6	0.68	37.0	637.1	6.4	0.56	0.46	26.0	84.86	0.68	3.0		
11/20/83	110.02				99.30	85.96	13.34			2953.4	151.0	889.3	2.80	157.2	2702.9	27.0	0.64	0.53	29.8	84.98	0.88	3.4		
11/27/83	110.12				99.40	85.96	13.45			2944.7	-8.7	888.4	0.48	26.4	444.1	4.4	0.75	0.62	35.8	84.83	1.13	3.8		
12/04/83	110.20				99.41	85.96	13.45			2948.5	3.8	888.8	0.47	27.0	453.7	4.5	0.49	0.41	23.3	84.69	1.07	4.4		
12/11/83	110.35				99.45	85.95	13.50			2944.4	-4.1	888.4	0.33	19.9	318.8	3.2	0.50	0.39	22.1	84.94	1.01	4.2		
12/18/83	110.36				99.48	86.08	13.40			3037.0	92.6	897.9	1.73	99.2	1670.0	16.7	0.44	0.34	19.4	84.91	1.18	3.9		
12/25/83	110.38				99.47	86.05	13.41			3018.7	-18.3	896.1	0.07	4.1	67.8	0.7	0.41	0.32	18.4	84.73	1.33	4.6		
01/01/84	110.82				99.54	86.35	13.19			3225.7	207.0	916.9	3.48	200.7	3340.1	33.4	0.49	0.38	21.9	84.83	1.52	5.2		
01/08/84	110.70				99.52	86.30	13.31			3189.4	-36.3	913.3	0.01	0.8	9.7	0.1	0.67	0.52	30.8	85.08	1.22	6.1		
01/15/84	110.72				99.52	86.32	13.29			3203.1	13.7	914.7	0.43	25.6	415.1	4.2	0.27	0.19	11.1	85.25	1.07	4.9		
01/22/84	110.81				99.53	86.33	13.30			3213.6	10.5	915.7	0.44	26.2	424.7	4.2	0.38	0.26	15.6	85.17	1.16	4.3		
01/29/84	110.91				99.64	86.32	13.32			3203.7	-10.0	914.7	0.31	18.5	299.3	3.0	0.65	0.45	28.7	85.45	0.87	4.7		
02/05/84	110.98				99.59	86.28	13.31			3171.8	-31.8	911.5	0.08	3.8	57.9	0.6	0.79	0.55	32.5	85.48	0.79	3.5		
02/12/84	110.94				99.57	86.21	13.36			3127.5	-44.3	907.1	0.00	0.0	0.0	0.0	0.85	0.69	41.1	85.38	0.83	3.2		
02/19/84	110.94				99.55	86.21	13.44			3128.3	0.6	907.2	0.60	35.4	579.2	5.8	0.88	0.83	37.0	85.30	0.91	3.3		
02/26/84	111.36				99.75	86.42	13.33			3275.6	147.2	921.8	2.89	170.3	2789.8	27.9	1.10	0.80	47.3	85.53	0.89	3.7		
03/04/84	111.38				99.84	86.46	13.38			3302.8	27.3	924.5	1.21	72.8	1168.1	11.7	1.22	0.89	53.8	85.64	0.92	3.8		
03/11/84	111.55				99.92	86.47	13.45			3311.8	8.8	925.4	0.99	58.8	955.7	9.6	1.12	0.94	55.8	85.55	0.92	3.8		
03/18/84	111.65				99.87	86.41	13.46			3285.9	-45.7	920.9	0.25	15.1	241.3	2.4	1.17	0.98	59.4	85.66	0.75	3.8		
03/25/84	111.68				99.87	86.34	13.53			3220.4	-45.5	916.4	0.31	18.8	299.3	3.0	1.27	1.07	64.1	85.71	0.63	3.1		
04/01/84	111.87				100.03	86.42	13.61			3274.4	54.0	921.7	1.69	100.9	1631.4	16.3	1.21	1.02	60.7	85.65	0.77	2.6		
04/08/84	112.21				100.07	86.57	13.50			3364.2	109.9	932.5	2.63	158.2	2538.8	25.4	1.43	1.17	70.5	86.03	0.54	3.1		
04/15/84	112.23				100.00	86.53	13.47			3356.0	-28.3	929.7	0.34	20.8	329.2	3.3	1.00	0.82	50.1	86.26	0.27	2.2		
04/22/84	112.23				99.94	86.44	13.50			3291.9	-64.1	923.4	0.04	2.4	38.6	0.4	1.32	1.06	65.8	86.14	0.30	1.1		
04/29/84	112.21				99.88	86.36	13.52			3234.9	-56.9	917.8	0.25	15.1	241.3	2.4	1.48	1.21	73.2	86.01	0.35	1.2		
05/06/84	112.19				99.82	86.27	13.55			3164.8	-70.2	910.8	0.28	15.8	251.0	2.5	1.77	1.45	86.8	86.02	0.24	1.4		
05/13/84	112.07				99.71	86.14	13.57			3073.8	-91.1	901.8	0.00	0.0	0.0	0.0	1.79	1.52	90.1	85.87	0.48	1.0		
05/20/84	111.86				99.60	85.96	13.62			2992.0	-111.7	890.2	0.00	0.0	0.0	0.0	2.21	1.88	109.8	85.45	0.53	1.8		
05/27/84	111.93				99.57	86.24	13.33			3148.5	186.6	909.2	3.82	219.7	3687.6	36.9	1.39	1.18	68.0	85.51	0.73	2.1		
06/03/84	111.74				99.50	86.39	13.11			3252.0	103.4	919.5	2.84	167.8	2741.5	27.4	1.77	1.50	68.9	85.37	1.01	2.9		
06/10/84	111.81				99.37	86.23	13.14			3136.0	-116.0	907.9	0.00	0.0	0.0	0.0	2.05	1.87	111.9	85.10	1.13	4.1		
06/17/84	111.56				99.32	86.11	13.21			3062.1	-83.9	899.5	0.04	2.4	38.6	0.4	1.53	1.39	82.1	84.96	1.13	4.5		
06/24/84	111.49				99.38	86.09	13.27			3041.4	-10.7	898.4	1.11	64.7	1071.5	10.7	1.64	1.40	81.7	85.03	1.06	4.4		
07/01/84	111.48				99.47	86.17	13.30			3095.4	54.1	903.9	1.65	107.7	1785.9	17.9	1.27	1.16	67.3	84.94	1.23	4.2		
07/08/84	111.50				99.58	86.12	13.46			3059.3	-36.1	900.2	0.84	49.3	810.9	8.1	1.86	1.51	88.8	84.88	1.24	4.9		
07/15/84	111.56				99.56	86.13	13.43			3066.8	7.5	900.9	1.40	81.7	1351.5	13.5	1.58	1.42	82.8	84.86	1.27	4.9		
07/22/84	111.84				99.58	86.21	13.35			3123.4	56.6	906.7	1.78	104.0	1718.3	17.2	1.12	1.02	59.5	84.93	1.28	5.0		
07/29/84	111.66				99.52	86.18	13.44			3101.3	-22.1	904.4	0.69	40.6	696.1	6.7	1.20	1.09	64.3	84.92	1.26	5.1		
08/05/84	111.60				99.81	86.24	13.37			3146.8	45.8	909.0	1.92	112.7	1853.4	18.5	1.81	1.37	80.7	84.83	1.41	5.0		
08/12/84	111.53				99.60	86.11	13.49			3055.8	-91.0	899.8	0.00	0.0	0.0	0.0	1.70	1.45	85.4	84.72	1.40	5.8		
08/19/84	111.63				99.60	86.16	13.44			3069.0	33.2	903.2	1.59	92.7	1534.9	15.3	1.40	1.19	69.4	84.71	1.45	5.6		
08/26/84	111.70				99.59	86.19	13.40			3107.3	18.3	905.0	1.17	68.8	1129.4	11.3	1.12	0.95	55.8	84.74	1.44	5.8		
09/02/84	111.61				99.58	86.09	13.49			3042.6	-84.6	898.5	0.30	17.8	269.6	2.9	1.59	1.35	79.4	84.58	1.51	5.7		
09/09/84	111.34				99.55	86.01	13.54			2963.6	-59.0	892.5	0.02	1.2	19.3	0.2	1.23	0.93	54.4	84.59	1.42	6.0		
09/16/84	111.21				99.51	85.91	13.60			2916.7	-87.0	885.5	0.00	0.0	0.0	0.0	1.40	1.06	61.4	84.59	1.32	5.6		
09/23/84	111.04				99.47	85.82	13.65			2857.6	-59.1	879.4	0.05	2.9	48.3	0.5	1.32	1.00	57.3	84.37	1.48	5.1		
09/30/84	110.99				99.43	85.94	13.49			2935.3	77.7	887.5	2.03	114.9	1959.6	19.6	1.19	0.90	51.2	84.33	1.61	5.6		
10/07/84	110.81				99.40	85.85	13.55			2875.7	-59.6	881.3	0.01	0.8	9.7	0.1	1.24	0.94	54.0	84.36	1.49	6.2		
10/14/84	110.63				99.35	85.79	13.56			2833.6	-42.2	876.9	0.18	10.2	173.8	1.7	1.20	0.85	48.4	84.26	1.51	5.7		
10/21/84	110.46				99.29	85.72	13.67			2785.8	-47.8	871.8	0.00	0.0	0.0	0.0	1.05	0.75	42.0	84.18	1.54	5.8		
10/28/84	110.28				99.24	85.70	13.53			2776.7	-9.0	870.8	0.66	36.9	637.1	6.4	1.17	0.83	46.5	83.99	1.77	5.8		
11/04/84	110.48				99.27	85.80	13.47			2843.1	66.4	877.9	1.63	91.1	1573.5	15.7	0.85	0.80	33.7	84.01	1.79	6.7		
11/11/84	110.20																							

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711769.8 C2 = -69613.29 C3 = 593.7937 C4 = -1.6903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11564 Runoff Coeff. = 0.01		Geneva Lake Evap. ac-feet	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						Gainesville Pan Evap. in/week							
01/06/85	109.30				99.07	85.64	13.43	2730.9	0.1	666.0	0.54	30.0	521.3	5.2	0.65	0.80	27.8	63.58	2.05	7.3					
01/13/85	109.13				99.01	85.59	13.42	2700.5	-30.3	662.7	0.00	0.0	0.0	0.0	0.59	0.41	22.6	63.37	2.22	7.7					
01/20/85	108.96				98.94	85.57	13.37	2684.9	-15.6	661.0	0.24	13.3	231.7	2.3	0.60	0.41	22.9	63.46	2.11	6.3					
01/27/85	108.78				98.88	85.53	13.35	2661.3	-23.7	658.5	0.22	12.1	212.4	2.1	0.79	0.55	30.0	63.18	2.40	7.9					
02/03/85	108.70				98.90	85.51	13.39	2647.3	-14.0	657.0	0.35	19.2	337.9	3.4	0.73	0.50	27.6	63.23	2.28	6.9					
02/10/85	108.66				98.91	85.61	13.30	2712.2	64.9	664.0	1.53	63.8	1477.0	14.8	0.63	0.48	25.2	63.01	2.90	8.5					
02/17/85	108.41				98.91	85.66	13.36	2693.7	-28.5	660.9	0.29	16.0	279.9	2.8	0.93	0.68	37.6	62.97	2.56	9.7					
02/24/85	108.34				98.86	85.49	13.37	2631.4	-62.3	655.2	0.00	0.0	0.0	0.0	1.06	0.77	42.6	62.89	2.60	9.7					
03/03/85	108.15				98.83	85.41	13.42	2580.2	-61.2	649.7	0.06	3.3	57.9	0.6	1.14	0.83	45.4	62.83	2.58	9.6					
03/10/85	107.94				98.74	85.29	13.45	2505.3	-75.0	641.4	0.00	0.0	0.0	0.0	1.44	1.21	65.5	62.53	2.78	9.5					
03/17/85	107.78				98.68	85.30	13.38	2511.7	6.4	642.1	1.05	56.1	1013.8	10.1	1.11	0.93	49.8	62.61	2.69	10.0					
03/24/85	107.64				98.67	85.23	13.44	2463.5	-48.2	636.7	0.26	13.9	251.0	2.5	1.22	1.02	54.8	62.35	2.87	9.8					
03/31/85	107.44				98.58	85.10	13.48	2381.4	-82.1	627.5	0.00	0.0	0.0	0.0	1.61	1.35	71.8	62.13	2.98	10.3					
04/07/85	107.24				98.47	85.03	13.44	2339.8	-41.6	622.8	0.55	28.8	530.9	5.3	1.62	1.25	65.2	62.06	2.94	10.5					
04/14/85	107.11				98.49	85.31	13.18	2518.2	176.5	642.6	4.01	208.1	3671.0	36.7	1.41	1.18	60.0	62.19	3.12	10.4					
04/21/85	106.99				98.50	85.19	13.31	2443.5	-72.7	634.5	0.14	7.5	135.1	1.4	1.60	1.31	70.3	62.08	3.12	11.3					
04/28/85	106.81				98.39	85.04	13.35	2344.8	-98.8	623.3	0.00	0.0	0.0	0.0	2.02	1.68	87.8	61.93	3.21	11.2					
05/05/85	106.68				98.28	84.98	13.30	2310.2	-34.5	619.4	0.84	43.6	810.9	8.1	1.78	1.44	75.0	61.83	3.15	11.3					
05/12/85	106.31				98.17	84.84	13.33	2222.0	-88.2	609.2	0.00	0.0	0.0	0.0	1.78	1.50	77.2	61.46	3.38	11.0					
05/19/85	106.14				98.07	84.67	13.40	2122.2	-99.6	597.4	0.14	7.1	135.1	1.4	2.24	1.90	96.7	61.20	3.47	11.8					
05/26/85	106.91				97.96	84.77	13.19	2181.8	57.9	604.4	2.39	119.0	2307.1	23.1	1.67	1.42	70.7	61.12	3.65	11.7					
06/02/85	106.61				97.81	84.81	13.20	2086.1	-95.8	593.1	0.06	3.0	57.9	0.6	2.03	1.73	66.9	60.82	3.79	12.5					
06/09/85	106.38				97.67	84.43	13.24	1980.3	-105.8	580.2	0.16	7.9	154.5	1.5	2.28	2.07	102.5	60.59	3.84	12.7					
06/16/85	106.45				97.67	84.66	13.11	2058.0	75.7	589.4	2.85	137.8	2751.2	27.5	1.75	1.59	77.0	60.75	3.81	12.6					
06/23/85	106.21				97.72	84.44	13.29	1985.2	-70.8	590.8	0.22	10.8	212.4	2.1	1.59	1.45	71.1	60.54	3.90	12.7					
06/30/85	106.22				97.73	84.63	13.10	2095.1	110.0	594.1	3.23	158.3	3118.0	31.2	1.47	1.34	64.7	60.81	4.02	12.6					
07/07/85	104.93				97.69	84.54	13.15	2044.9	-50.3	588.1	0.49	24.3	473.0	4.7	1.46	1.33	65.8	60.44	4.10	13.5					
07/14/85	104.85				97.68	84.43	13.25	1978.1	-66.7	580.0	0.25	12.3	241.3	2.4	1.62	1.38	67.8	60.42	4.01	13.8					
07/21/85	104.92				97.79	84.38	13.41	1950.4	-27.7	576.5	0.78	37.7	763.0	7.5	1.36	1.24	59.8	60.51	3.87	13.1					
07/28/85	104.99				98.03	84.26	13.77	1881.5	-68.9	568.0	0.04	1.9	38.8	0.4	1.34	1.22	58.6	60.63	3.63	12.6					
08/04/85	104.90				98.17	84.69	13.58	2071.3	189.8	591.3	4.48	212.0	4324.7	43.2	1.25	1.14	53.8	60.78	3.82	11.7					
08/11/85	105.24				98.52	84.61	13.91	2083.7	12.4	592.8	1.33	65.5	1283.9	12.8	1.27	1.08	53.2	61.05	3.56	12.8					
08/18/85	105.41				98.82	84.82	14.00	2213.9	130.2	608.2	3.41	168.4	3291.8	32.9	1.41	1.20	59.2	61.27	3.56	11.9					
08/25/85	105.84				99.13	85.06	14.07	2358.4	144.5	624.9	3.44	174.4	3320.7	33.2	1.18	1.00	50.8	61.85	3.41	12.2					
09/01/85	106.34				99.49	85.44	14.05	2902.3	243.9	652.1	5.15	268.2	4971.5	49.7	1.40	1.19	62.0	62.22	3.22	12.0					
09/08/85	106.64				99.65	85.44	14.21	2902.8	0.5	652.1	0.89	48.4	859.1	8.8	1.08	0.82	44.8	62.62	2.93	11.9					
09/15/85	107.01				99.87	85.38	14.29	2559.6	-43.2	647.4	0.41	22.3	395.8	4.0	1.43	1.09	59.1	62.84	2.54	10.4					
09/22/85	107.35				99.69	85.43	14.26	2592.8	33.1	651.0	1.42	76.8	1370.8	13.7	1.17	0.89	48.0	62.93	2.60	9.3					
09/29/85	107.45				99.72	85.33	14.39	2529.0	-63.8	644.0	0.00	0.0	0.0	0.0	1.32	1.00	54.4	62.78	2.54	9.2					
10/06/85	107.56				99.67	85.27	14.40	2488.9	-40.1	639.6	0.28	14.0	251.0	2.5	1.16	0.88	47.3	62.94	2.32	9.2					
10/13/85	107.76				99.63	85.25	14.38	2481.5	-7.5	638.8	0.64	34.1	617.8	6.2	1.04	0.74	39.4	63.03	2.23	8.4					
10/20/85	107.88				99.61	85.18	14.43	2434.5	-47.0	633.5	0.03	1.6	29.0	0.3	1.08	0.77	40.8	62.95	2.23	8.0					
10/27/85	108.06				99.60	85.15	14.45	2417.7	-18.8	631.6	0.50	26.4	482.7	4.8	1.07	0.76	40.1	63.06	2.10	8.0					
11/03/85	108.23				99.65	85.59	14.08	2701.2	263.5	662.8	5.29	278.4	5106.6	51.1	1.03	0.73	38.5	63.17	2.42	7.5					
11/10/85	108.28				99.63	85.51	14.12	2649.0	-52.2	657.2	0.07	3.9	67.8	0.7	1.04	0.86	47.7	63.05	2.46	9.1					
11/17/85	108.36				99.67	85.45	14.12	2608.2	-40.8	652.7	0.08	4.4	77.2	0.8	0.81	0.67	36.8	63.02	2.43	9.1					
11/24/85	108.47				99.55	85.47	14.06	2621.4	13.2	654.2	0.79	43.0	782.6	7.8	0.63	0.52	28.4	63.12	2.35	8.0					
12/01/85	108.56				99.49	85.42	14.07	2595.6	-35.8	650.2	0.00	0.0	0.0	0.0	0.60	0.50	27.1	63.15	2.27	6.7					
12/08/85	108.42				99.41	85.37	14.04	2564.8	-30.8	648.9	0.06	3.3	57.9	0.6	0.63	0.49	29.3	62.98	2.39	8.3					
12/15/85	108.45				99.38	85.38	13.98	2561.3	8.5	647.6	0.73	38.4	704.7	7.0	0.75	0.58	31.1	62.89	2.49	8.7					
12/22/85	108.42				99.33	85.33	14.00	2531.9	-29.5	644.3	0.00	0.0	0.0	0.0	0.49	0.38	20.4	62.90	2.34	9.1					
12/29/85	108.36				99.37	85.30	14.07	2511.3	-20.5	642.1	0.13	7.0	125.5	1.3	0.49	0.38	20.3	62.92	2.38	8.5					
01/05/86	108.90				99.44	85.48	13.98	2628.1	116.8	654.9	2.54	136.9	2451.9	24.5	0.85	0.65	35.0	62.95	2.53	8.6					
01/12/86	108.83				99.54	85.73	13.81	2792.5	164.5	672.5	3.07	187.5	2963.6	29.6	0.82	0.43	23.3	63.10	2.63	9.3					
01/19/86	108.85				99.64	85.72	13.92	2784.3	-8.3	671.7	0.35	19.6	337.9	3.4	0.55	0.36	21.3	63.45	2.27	10.0					
01/26/86	108.90				99.63	85.69	13.94	2795.2	-19.1	669.6	0.34	19.0	328.2	3.3	0.65	0.59	32.8	63.41	2.28	8.6					
02/02/86	108.98				99.80	85.63	13.97	2727.7	-37.5	665.6	0.00	0.0	0.0	0.0	0.75	0.52	28.9	63.15	2.48	8.6					
02/09/86	109.23				99.80	85.75	14.05	2808.3	78.7	674.0	1.78	98.7	1718.3	17.2	0.89	0.50	27.9	63.36	2.39	9.3					
02/16/86	109.36				99.99	85.94	14.05	2935.1	128.7	687.4	2.63	147.7	2538.8	25.4	0.86	0.63	35.3	63.69	2.24	9.1					
02/23/86	109.52				99.96	85.94	14.01	2939.5	4.4	687.9	0.74	42.4	714.3	7.1	0.87	0.64	36.4	63.78	2.18	8.7					
03/02/86	109.56				99.92	85.90	14.02	2907.4	-32.1	684.6	0.24	13.8	231.7	2.3	0.95	0.69	39.8	63.81							

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711789.8 C2 = -69613.29 C3 = 583.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13824.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Leakance = 8.071E-04 1/day			
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Effective Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet			Gainesville Pen in/week	Floridan Aquifer Elevation ft	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
04/08/86	110.26				100.08	85.72	14.36			2784.0	-91.0	871.8	0.00	0.0	0.0	1.82	1.49	84.7	83.97	1.78	6.3	
04/13/86	110.03				99.83	85.81	14.02			2715.7	-68.2	864.3	0.39	21.8	378.5	3.8	1.90	1.58	87.2	84.07	1.85	6.8
04/20/86	110.11				99.79	85.50	14.29			2640.5	-75.3	866.2	0.00	0.0	0.0	0.0	1.83	1.25	89.5	83.70	1.80	5.8
04/27/86	109.91				99.71	85.38	14.33			2663.6	-78.9	847.8	0.24	13.1	231.7	2.3	1.91	1.57	85.8	83.54	1.84	6.7
05/04/86	109.70				99.58	85.22	14.36			2459.5	-104.1	836.3	0.00	0.0	0.0	0.0	2.20	1.90	97.4	83.32	1.90	6.7
05/11/86	109.52				99.47	85.06	14.39			2372.9	-88.6	826.5	0.00	0.0	0.0	0.0	1.77	1.50	79.8	83.17	1.91	6.8
05/18/86	109.43				99.47	84.94	14.53			2286.7	-86.2	816.7	0.00	0.0	0.0	0.0	1.78	1.82	79.4	82.92	2.03	6.8
05/25/86	109.27				99.46	84.91	14.55			2295.2	-21.5	814.2	0.96	50.4	946.0	9.5	1.70	1.45	74.3	82.88	2.03	7.1
06/01/86	109.08				99.35	84.77	14.58			2179.6	-85.5	804.2	0.19	9.7	183.4	1.8	2.07	1.78	90.1	82.78	2.01	7.0
06/08/86	108.82				99.28	84.66	14.62			2115.1	-84.6	806.5	0.42	21.1	405.4	4.1	1.81	1.85	82.9	82.59	2.07	6.8
06/15/86	108.70				99.18	84.66	14.32			2236.6	123.5	811.1	3.41	189.5	3291.8	32.9	1.59	1.45	71.9	82.64	2.22	7.0
06/22/86	109.35				99.25	84.88	14.37			2249.1	10.5	812.3	1.47	74.9	1419.0	14.2	1.53	1.39	70.9	83.05	1.83	7.7
06/29/86	109.31				99.32	84.75	14.57			2168.0	-81.1	802.8	0.00	0.0	0.0	0.0	1.81	1.47	74.8	82.88	1.87	6.3
07/06/86	109.28				99.39	84.72	14.67			2151.9	-18.1	800.9	1.09	54.8	1082.2	10.5	1.84	1.49	75.0	82.84	1.88	6.4
07/13/86	109.28				99.40	84.75	14.65			2188.7	14.8	802.7	1.48	73.1	1409.4	14.1	1.45	1.32	86.1	82.83	1.92	6.4
07/20/86	109.09				99.44	84.58	14.88			2068.5	-100.2	590.7	0.00	0.0	0.0	0.0	2.06	1.87	93.7	82.56	2.02	6.5
07/27/86	108.99				99.34	84.85	14.49			2229.0	162.8	810.0	4.10	201.8	3967.9	39.6	1.81	1.47	72.1	82.63	2.21	6.7
08/03/86	108.96				99.37	84.80	14.57			2200.5	-28.8	806.8	0.74	37.8	714.3	7.1	1.42	1.29	65.7	82.50	2.30	7.8
08/10/86	108.97				99.50	84.81	14.69			2202.4	2.0	806.9	1.12	58.6	1081.2	10.8	1.34	1.14	67.8	82.50	2.31	7.9
08/17/86	108.99				99.55	84.99	14.56			2312.9	110.5	819.7	2.83	143.1	2731.9	27.3	1.21	1.03	52.0	82.63	2.36	7.9
08/24/86	108.01				99.58	85.14	14.42			2411.8	98.9	830.9	2.93	151.3	2828.4	28.3	1.65	1.40	72.4	82.55	2.59	8.3
08/31/86	108.95				99.57	85.16	14.41			2422.7	10.8	832.2	1.17	81.5	1129.4	11.3	1.18	1.00	62.7	82.49	2.87	9.2
09/07/86	108.83				99.56	85.18	14.38			2433.8	11.1	833.4	1.25	85.9	1206.7	12.1	1.43	1.09	67.3	82.44	2.74	9.5
09/14/86	108.78				99.49	85.23	14.28			2463.8	30.1	836.8	1.57	82.9	1815.6	15.2	1.45	1.10	68.2	82.48	2.75	9.8
09/21/86	108.58				99.40	85.14	14.28			2407.2	-58.8	830.4	0.11	5.8	106.2	1.1	1.33	1.01	53.8	82.31	2.82	9.9
09/28/86	108.42				99.30	85.06	14.25			2365.8	-51.4	824.6	0.17	8.9	184.1	1.8	1.30	0.99	51.9	82.13	2.92	10.0
10/05/86	108.22				99.19	84.98	14.23			2298.1	-57.8	818.0	0.00	0.0	0.0	0.0	1.20	0.91	47.5	82.03	2.93	10.3
10/12/86	108.09				99.15	85.15	14.00			2418.0	119.9	831.6	2.89	138.5	2598.7	28.0	0.94	0.87	34.4	82.11	3.04	10.2
10/19/86	107.84				99.18	85.07	14.11			2363.4	-54.6	825.5	0.00	0.0	0.0	0.0	1.17	0.83	43.7	81.99	3.08	10.8
10/26/86	107.81				99.09	85.01	14.08			2324.9	-38.5	821.1	0.14	7.3	136.1	1.4	0.98	0.70	36.3	82.02	2.98	10.9
11/02/86	107.51				99.00	85.06	13.94			2391.1	36.3	825.2	1.08	54.9	1023.3	10.2	0.50	0.36	18.4	81.98	3.09	10.5
11/09/86	107.31				98.90	85.00	13.90			2318.7	-42.5	820.3	0.00	0.0	0.0	0.0	0.73	0.81	31.8	81.84	3.15	10.9
11/16/86	107.11				98.85	84.99	13.86			2317.7	-1.0	820.2	0.71	38.7	685.4	6.9	0.78	0.85	33.5	81.85	3.14	11.1
11/23/86	106.92				98.78	84.94	13.84			2282.5	-35.2	818.2	0.11	5.7	108.2	1.1	0.72	0.60	30.9	81.75	3.19	11.0
11/30/86	107.03				98.86	85.18	13.68			2434.0	161.5	833.4	3.14	181.2	3051.1	30.3	0.88	0.66	29.0	81.89	3.29	11.1
12/07/86	106.86				98.92	85.19	13.73			2443.7	9.7	834.5	0.80	42.2	772.3	7.7	0.70	0.54	28.5	81.74	3.45	11.8
12/14/86	106.86				98.91	85.25	13.66			2481.1	37.4	838.7	1.31	69.3	1284.8	12.8	0.79	0.81	32.2	81.75	3.50	12.4
12/21/86	106.71				98.98	85.21	13.77			2453.2	-27.9	835.6	0.05	2.7	48.3	0.5	0.45	0.35	18.4	81.80	3.41	12.8
12/28/86	106.64				98.98	85.27	13.89			2494.4	41.2	840.2	1.14	80.4	1100.5	11.0	0.44	0.34	17.9	81.83	3.44	12.2
01/04/87	106.69				98.97	85.40	13.57			2577.1	82.8	849.3	1.87	99.8	1805.2	18.1	0.55	0.42	22.6	82.01	3.39	12.5
01/11/87	106.85				99.01	85.37	13.64			2553.4	-23.7	848.7	0.18	9.7	173.8	1.7	0.61	0.42	22.8	81.95	3.42	12.4
01/18/87	106.59				99.01	85.35	13.88			2544.8	-8.6	845.8	0.38	19.4	347.5	3.5	0.51	0.35	19.0	82.06	3.30	12.5
01/25/87	106.71				99.05	85.54	13.51			2570.3	125.4	859.5	2.47	132.9	2384.4	23.8	0.62	0.36	19.3	82.13	3.41	12.0
02/01/87	106.87				99.05	85.48	13.57			2531.0	-39.3	855.2	0.00	0.0	0.0	0.0	0.70	0.48	26.5	82.19	3.30	12.7
02/08/87	106.86				99.11	85.62	13.49			2720.9	89.9	864.9	1.98	108.1	1911.4	19.1	0.63	0.46	25.1	82.48	3.14	12.2
02/15/87	106.93				99.22	85.65	13.87			2871.1	-49.8	869.5	0.00	0.0	0.0	0.0	0.94	0.89	38.0	82.54	3.00	11.8
02/22/87	107.25				99.36	85.80	13.88			2843.2	172.1	877.9	3.39	188.3	3272.5	32.7	0.89	0.85	35.7	82.78	3.02	11.2
03/01/87	107.56				99.52	85.90	13.62			2908.0	62.8	884.4	1.81	102.2	1747.3	17.5	1.10	0.80	45.4	83.13	2.77	11.6
03/08/87	108.01				99.61	85.94	13.67			2938.0	30.0	887.5	1.35	77.0	1303.2	13.0	1.03	0.87	49.3	83.54	2.40	10.7
03/15/87	108.11				99.63	85.86	13.77			2890.5	-55.4	881.8	0.03	1.7	29.0	0.3	1.00	0.84	48.1	83.68	2.18	9.3
03/22/87	108.28				99.58	85.78	13.90			2829.0	-51.5	876.4	0.12	8.8	115.8	1.2	1.07	0.90	51.1	83.94	1.84	8.4
03/29/87	108.82				99.74	86.16	13.58			3087.9	258.8	703.1	4.78	289.4	4614.3	46.1	1.05	0.88	49.7	84.16	2.00	7.0
04/05/87	109.09				99.89	86.31	13.58			3192.6	104.7	713.8	2.48	144.1	2374.7	23.7	1.15	0.94	55.3	84.56	1.74	7.9
04/12/87	109.30				99.84	86.19	13.65			3113.8	-78.7	705.7	0.00	0.0	0.0	0.0	1.47	1.21	71.7	84.55	1.64	7.0
04/19/87	109.52				99.85	86.10	13.75			3049.7	-64.1	699.2	0.23	13.5	222.0	2.2	1.62	1.25	73.3	84.63	1.47	6.5
04/26/87	109.58				99.76	85.98	13.78			2981.7	-88.0	690.2	0.00	0.0	0.0	0.0	1.72	1.41	82.2	84.44	1.53	6.8
05/03/87	109.80				99.80	85.81	13.79			2851.1	-110.7	678.7	0.00	0.0	0.0	0.0	2.22	1.82	104.7	84.19	1.83	6.0
05/10/87	109.74				99.57	85.71	13.88			2777.3	-73.8	670.9	0.04	2.3	38.8	0.4	1.46	1.24	70.2	84.18	1.53	6.2
05/17/87	109.74																					

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711768.8 C2 = -89513.29 C3 = 563.7937 C4 = -1.8903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.9 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet						
07/05/87	109.41				99.28	85.38	13.90			2562.9	-53.8	647.8	0.43	23.4	415.1	4.2	1.48	1.35	73.4	83.16	2.23	8.0
07/12/87	109.49				99.30	85.36	13.92			2560.9	-2.0	647.5	1.54	83.1	1486.6	14.9	1.87	1.70	91.9	83.14	2.24	8.1
07/19/87	109.38				99.30	85.30	14.00			2511.4	-49.5	642.1	0.40	21.6	386.1	3.9	1.36	1.24	96.8	83.02	2.28	8.2
07/26/87	109.24				99.18	85.26	13.90			2483.8	-27.6	639.0	1.46	78.1	1408.4	14.1	2.29	2.08	111.5	82.86	2.30	8.3
08/02/87	109.10				98.96	85.24	13.72			2470.6	-13.2	637.5	1.06	56.4	1023.3	10.2	1.47	1.34	71.2	82.74	2.49	8.6
08/09/87	108.99				98.91	85.17	13.74			2427.2	-43.4	632.7	0.53	26.2	511.8	5.1	1.50	1.28	67.7	82.42	2.75	9.0
08/16/87	109.34				98.95	85.48	13.47			2627.0	199.9	654.8	4.03	212.5	3690.3	36.9	0.93	0.79	41.7	82.33	2.85	9.8
08/23/87	109.43				98.93	85.34	13.59			2539.3	-87.7	645.2	0.00	0.0	0.0	0.0	1.68	1.43	77.9	82.31	2.81	9.8
08/30/87	109.36				98.87	85.21	13.66			2483.5	-85.8	635.9	0.03	1.8	29.0	0.3	1.71	1.45	78.1	82.53	2.88	9.5
09/06/87	109.36				98.90	85.16	13.74			2421.1	-32.5	632.0	0.22	11.7	212.4	2.1	0.91	0.89	36.8	82.65	2.81	9.8
09/13/87	109.36				98.88	85.26	13.60			2482.6	81.5	636.9	2.03	106.9	1959.6	19.6	1.40	1.08	58.0	82.60	2.86	9.9
09/20/87	109.24				98.78	85.28	13.48			2498.4	15.8	640.8	1.28	67.1	1216.3	12.2	1.33	1.01	53.6	82.43	2.85	9.8
09/27/87	109.87				98.63	85.19	13.44			2437.8	-80.6	633.9	0.00	0.0	0.0	0.0	1.24	0.94	50.3	82.20	2.99	10.3
10/04/87	108.81				98.45	85.12	13.33			2395.0	-42.9	629.0	0.43	22.7	415.1	4.2	1.47	1.12	59.0	82.12	2.98	10.7
10/11/87	108.61				98.25	85.03	13.22			2339.3	-55.7	622.7	0.00	0.0	0.0	0.0	1.21	0.98	45.0	82.08	2.95	10.8
10/18/87	108.31				98.13	84.93	13.20			2278.5	-59.8	615.8	0.00	0.0	0.0	0.0	1.34	0.95	49.4	81.92	3.01	10.4
10/25/87	108.10				98.01	84.85	13.16			2230.1	-48.5	610.1	0.00	0.0	0.0	0.0	1.07	0.78	38.0	81.69	3.17	10.5
11/01/87	107.91				97.99	84.78	13.23			2177.3	-52.8	603.9	0.00	0.0	0.0	0.0	1.18	0.82	41.9	81.58	3.18	10.9
11/08/87	107.88				98.07	84.82	13.25			2214.0	36.7	608.2	1.42	71.5	1370.8	13.7	0.90	0.75	37.8	81.68	3.15	10.8
11/15/87	107.98				98.12	84.74	13.38			2165.3	-48.7	602.5	0.00	0.0	0.0	0.0	0.90	0.75	37.9	81.58	3.18	10.8
11/22/87	107.70				98.15	84.92	13.23			2274.4	109.0	615.2	2.76	136.8	2894.3	28.6	1.09	0.90	45.4	81.62	3.30	10.8
11/29/87	107.59				98.13	84.87	13.26			2240.6	-33.8	611.3	0.13	6.7	125.5	1.3	0.71	0.59	30.2	81.72	3.15	11.5
12/06/87	107.46				98.05	84.90	13.25			2196.0	-44.6	606.1	0.00	0.0	0.0	0.0	0.86	0.66	33.7	81.27	3.53	10.9
12/13/87	107.19				98.04	84.74	13.30			2160.5	-35.5	601.9	0.05	2.5	48.3	0.5	0.68	0.52	26.4	81.28	3.48	12.1
12/20/87	107.20				98.07	84.77	13.30			2182.5	22.1	604.5	0.98	49.2	946.0	9.5	0.64	0.49	24.7	81.22	3.55	11.8
12/27/87	107.06				98.03	84.72	13.31			2149.9	-32.7	600.7	0.02	1.0	19.3	0.2	0.56	0.43	21.7	81.25	3.47	12.1
01/03/88	106.84				97.98	84.66	13.28			2128.5	-21.4	598.1	0.13	6.6	125.5	1.3	0.45	0.35	17.3	81.18	3.50	11.8
01/10/88	106.81				97.93	84.78	13.17			2174.4	45.9	603.6	1.23	61.3	1187.4	11.9	0.45	0.31	15.5	81.08	3.69	11.8
01/17/88	106.81				97.93	84.70	13.23			2141.1	-33.3	599.8	0.02	1.0	19.3	0.2	0.63	0.43	21.9	81.02	3.69	12.8
01/24/88	106.80				98.04	84.93	13.11			2279.7	138.5	615.9	2.92	145.9	2618.8	26.2	0.87	0.48	23.1	81.24	3.89	12.5
01/31/88	106.71				98.16	84.97	13.19			2303.6	23.9	618.8	0.94	48.2	907.4	9.1	0.58	0.40	20.5	81.27	3.71	12.9
02/07/88	106.87				98.14	84.95	13.19			2286.5	-15.1	616.9	0.42	21.7	405.4	4.1	0.74	0.54	27.8	81.25	3.70	13.0
02/14/88	106.84				98.14	84.90	13.24			2280.1	-28.4	613.6	0.25	12.9	241.3	2.4	0.82	0.60	30.8	81.23	3.67	12.9
02/21/88	106.83				98.28	85.24	13.04			2473.7	213.8	637.9	4.08	206.8	3636.6	36.4	0.58	0.42	21.6	81.50	3.74	12.7
02/28/88	106.84				98.36	85.18	13.20			2420.3	-53.4	631.9	0.00	0.0	0.0	0.0	1.03	0.75	40.0	81.60	3.55	13.5
03/06/88	106.87				98.44	85.36	13.08			2553.0	132.7	646.7	2.98	156.9	2676.7	26.8	0.91	0.76	40.3	81.84	3.52	12.7
03/13/88	107.37				98.58	85.56	13.00			2692.6	139.6	661.9	3.24	174.6	3127.7	31.3	1.18	0.96	53.4	82.23	3.35	12.9
03/20/88	107.58				98.60	85.62	12.98			2721.4	28.8	665.0	1.56	96.0	1505.9	15.1	1.29	1.06	59.8	82.28	3.36	12.5
03/27/88	107.78				98.61	85.51	13.10			2645.0	-78.4	656.7	0.00	0.0	0.0	0.0	1.37	1.15	63.8	82.41	3.10	12.9
04/03/88	107.84				98.57	85.38	13.19			2581.3	-83.8	647.6	0.00	0.0	0.0	0.0	1.61	1.32	72.3	82.50	2.88	11.8
04/10/88	107.81				98.44	85.29	13.15			2507.9	-53.4	641.7	0.30	16.2	289.6	2.9	1.40	1.15	62.0	82.24	3.05	10.5
04/17/88	107.78				98.33	85.28	13.05			2499.6	-8.2	640.8	0.92	49.2	888.1	8.9	1.26	1.03	55.2	82.13	3.15	11.1
04/24/88	107.89				98.26	85.17	13.09			2430.3	-69.3	633.0	0.13	6.9	125.5	1.3	1.51	1.24	66.1	82.00	3.18	11.4
05/01/88	107.71				98.16	85.11	13.05			2387.8	-42.7	628.2	0.51	26.9	492.3	4.9	1.46	1.20	63.2	81.96	3.13	11.4
05/08/88	107.40				98.03	84.95	13.08			2293.3	-94.3	617.4	0.00	0.0	0.0	0.0	1.67	1.59	83.2	81.61	3.34	11.1
05/15/88	107.47				98.00	84.98	13.02			2310.9	17.8	619.5	1.56	80.3	1505.9	15.1	1.51	1.28	66.0	81.63	3.15	11.7
05/22/88	107.34				98.07	84.83	13.24			2217.8	-93.1	608.7	0.00	0.0	0.0	0.0	1.87	1.59	82.1	81.44	3.39	11.0
05/29/88	107.25				98.02	84.80	13.22			2200.1	-17.8	606.6	1.17	59.3	1129.4	11.3	1.78	1.51	75.7	81.42	3.38	11.7
06/05/88	107.11				97.90	84.62	13.28			2093.3	-105.8	593.9	0.00	0.0	0.0	0.0	2.07	1.88	95.2	81.27	3.36	11.9
06/12/88	106.98				97.75	84.59	13.16			2076.1	-17.2	591.9	1.08	53.5	1042.6	10.4	1.55	1.41	69.8	81.18	3.41	11.3
06/19/88	106.88				97.80	84.43	13.17			1977.1	-98.9	579.8	0.00	0.0	0.0	0.0	1.95	1.77	87.5	80.78	3.84	11.4
06/26/88	106.38				97.49	84.41	13.08			1985.1	-12.0	578.4	1.03	49.8	994.3	9.9	1.38	1.24	89.8	80.84	3.77	11.9
07/03/88	106.19				97.34	84.40	12.94			1980.6	-4.5	577.8	1.26	60.2	1208.7	12.1	1.47	1.34	84.5	80.58	3.82	12.3
07/10/88	106.88				97.20	84.23	12.97			1953.2	-87.5	565.7	0.00	0.0	0.0	0.0	1.94	1.77	85.0	80.30	3.83	12.5
07/17/88	106.76				97.23	84.28	12.97			1882.5	19.3	568.1	1.77	83.4	1708.6	17.1	1.80	1.46	66.6	80.42	3.84	12.6
07/24/88	106.58				97.28	84.34	12.94			1825.3	42.8	573.4	1.89	89.5	1824.5	18.2	1.22	1.11	52.6	80.48	3.67	12.3
07/31/88	106.34				97.20	84.21	12.99			1855.0	-70.3	564.6	0.13	6.2	125.5	1.3	1.50	1.37	65.2	80.40	3.81	12.8
08/07/88	106.23				97.14	84.29	12.85			1898.2	41.2	569.8	2.02	95.0	1950.0	19.5	1.53	1.30	61.2	80.32	3.67	12.2
08/14/88	105.64	</																				

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 116.2 C1 = 2711769.8 C2 = -69613.29 C3 = 563.7937 C4 = -1.8903				Effective Discharge = 90%	Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 106.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Drainage area = 11584 Runoff Coeff. = 0.01		Leakage = 8.071E-04 1/day					
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet					Geneva Discharge cfs	Geneva Discharge ac-feet	Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet
10/02/88	107.48				86.71	85.79	12.92	2835.9	5.5	877.1	0.94	53.0	807.4	9.1	1.04	0.79	44.8	82.89	2.80	12.0
10/09/88	107.40				86.67	85.90	12.87	2839.0	3.2	877.4	0.98	55.3	848.0	9.5	1.28	0.89	50.5	82.82	2.98	11.1
10/16/88	107.28				86.55	85.72	12.83	2785.2	-53.9	871.7	0.00	0.0	0.0	0.0	1.08	0.75	42.5	82.73	2.98	11.4
10/23/88	107.21				86.45	85.62	12.83	2721.0	-64.2	864.9	0.00	0.0	0.0	0.0	1.33	0.84	52.9	82.73	2.90	11.3
10/30/88	107.11				86.41	85.55	12.86	2670.8	-50.2	859.5	0.00	0.0	0.0	0.0	1.00	0.71	39.3	82.58	2.97	10.9
11/06/88	107.04				86.37	85.55	12.82	2673.7	3.0	859.8	0.81	44.5	781.9	7.8	0.84	0.70	38.3	82.69	2.86	11.0
11/13/88	106.95				86.33	85.48	12.85	2628.1	-47.6	854.7	0.00	0.0	0.0	0.0	0.81	0.67	37.0	82.51	2.97	10.7
11/20/88	106.91				86.29	85.41	12.88	2582.5	-43.6	849.9	0.00	0.0	0.0	0.0	0.72	0.60	32.6	82.53	2.88	11.0
11/27/88	107.02				86.34	85.64	12.80	2686.7	83.2	859.0	1.99	107.8	1921.0	19.2	0.74	0.81	33.3	82.63	2.90	10.8
12/04/88	106.90				86.28	85.52	12.78	2653.2	-12.5	857.6	0.40	22.0	386.1	3.9	0.65	0.50	27.5	82.62	2.80	10.8
12/11/88	106.91				86.27	85.47	12.80	2619.2	-34.0	853.9	0.00	0.0	0.0	0.0	0.55	0.42	23.2	82.64	2.82	10.8
12/18/88	106.82				86.28	85.56	12.72	2677.3	58.1	860.2	1.33	72.5	1283.9	12.8	0.40	0.31	16.8	82.42	3.14	10.4
12/25/88	106.74				86.26	85.50	12.78	2642.7	-34.6	858.5	0.00	0.0	0.0	0.0	0.54	0.42	22.9	82.50	3.01	11.7
01/01/89	106.68				86.23	85.45	12.78	2607.6	-35.2	852.7	0.00	0.0	0.0	0.0	0.57	0.44	24.0	82.52	2.92	11.1
01/08/89	106.52				86.18	85.39	12.79	2567.9	-39.7	848.3	0.00	0.0	0.0	0.0	0.77	0.53	28.9	82.29	3.10	10.8
01/15/89	106.35				86.13	85.34	12.79	2538.3	-29.8	845.1	0.00	0.0	0.0	0.0	0.49	0.34	18.3	82.17	3.17	11.4
01/22/89	106.31				86.11	85.39	12.72	2570.8	32.5	848.6	1.14	61.3	1100.5	11.0	0.78	0.52	28.2	82.28	3.11	11.8
01/29/89	106.24				86.10	85.33	12.77	2531.7	-39.1	844.3	0.01	0.5	9.7	0.1	0.78	0.52	28.3	82.11	3.23	11.4
02/05/89	106.09				86.07	85.26	12.81	2488.2	-45.5	839.3	0.00	0.0	0.0	0.0	0.88	0.53	33.7	81.97	3.29	11.7
02/12/89	106.10				86.07	85.18	12.80	2433.9	-52.3	833.4	0.00	0.0	0.0	0.0	1.04	0.76	40.4	81.75	3.43	11.9
02/19/89	105.89				86.07	85.11	12.88	2387.7	-46.2	828.2	0.00	0.0	0.0	0.0	0.88	0.64	33.9	81.69	3.41	12.3
02/26/89	105.83				86.09	85.11	12.78	2389.5	1.8	828.4	0.84	44.0	810.9	8.1	1.00	0.73	36.2	81.48	3.62	12.1
03/05/89	105.59				86.06	85.14	12.72	2412.1	22.6	831.0	1.26	66.0	1216.3	12.2	0.97	0.81	42.7	81.63	3.51	12.9
03/12/89	105.43				86.06	85.06	12.82	2366.9	-53.2	824.9	0.00	0.0	0.0	0.0	0.92	0.77	40.8	81.48	3.58	12.5
03/19/89	105.26				86.03	84.93	12.90	2277.6	-81.3	815.6	0.00	0.0	0.0	0.0	1.57	1.32	66.7	81.14	3.79	12.6
03/26/89	105.10				86.03	84.85	12.94	2231.9	-45.7	810.3	0.30	15.4	289.6	2.9	1.18	0.99	50.9	81.18	3.67	13.2
04/02/89	104.93				86.00	84.72	12.98	2150.4	-81.5	800.7	0.00	0.0	0.0	0.0	1.66	1.35	68.8	80.87	3.85	12.7
04/09/89	104.80				86.03	84.62	13.01	2092.2	-58.2	803.8	0.31	15.5	299.3	3.0	1.56	1.27	63.6	80.88	3.74	13.1
04/16/89	104.50				86.02	84.53	12.89	2097.4	5.2	804.4	1.02	50.5	964.5	9.8	1.06	0.86	42.6	80.85	3.78	12.8
04/23/89	104.33				86.02	84.52	12.90	2029.8	-67.7	808.2	0.01	0.5	9.7	0.1	1.37	1.12	55.6	80.55	3.96	12.7
04/30/89	104.15				86.02	84.36	12.96	1941.2	-88.4	806.4	0.00	0.0	0.0	0.0	1.88	1.54	75.3	80.29	4.06	13.1
05/07/89	103.93				86.01	84.30	12.92	1905.1	-36.1	807.9	0.77	36.9	743.3	7.4	1.65	1.40	67.3	80.33	3.97	13.2
05/14/89	103.70				86.07	84.18	12.89	1834.6	-70.4	802.1	0.30	14.3	289.8	2.9	1.85	1.57	74.8	80.14	4.03	12.8
05/21/89	103.50				86.09	84.02	12.97	1746.5	-89.1	800.8	0.02	0.9	19.3	0.2	1.92	1.63	76.4	79.98	4.14	12.6
05/28/89	103.29				86.09	83.96	12.93	1714.0	-32.5	806.6	0.84	38.6	810.9	8.1	1.70	1.45	66.3	79.95	4.31	12.9
06/04/89	103.17				86.04	83.77	13.07	1611.8	-102.1	803.1	0.05	2.3	48.3	0.5	2.21	2.01	91.6	79.41	4.36	13.3
06/11/89	102.96				86.02	83.76	13.06	1608.6	-5.2	802.4	1.29	57.3	1245.3	12.5	1.53	1.39	61.9	79.58	4.18	13.1
06/18/89	102.91				86.09	83.75	13.05	1590.0	-18.8	803.2	1.33	59.0	1283.9	12.8	1.88	1.71	75.9	79.41	4.32	12.9
06/25/89	102.80				86.05	84.09	12.88	1788.8	188.6	808.0	5.17	228.4	4990.8	49.9	1.71	1.56	68.8	79.55	4.54	12.9
07/02/89	102.83				86.08	84.26	12.82	1883.8	95.9	808.2	3.22	149.2	3108.4	31.1	1.64	1.49	69.1	79.57	4.70	14.3
07/09/89	102.86				86.01	84.12	12.89	1801.9	-81.8	807.9	0.02	0.9	19.3	0.2	1.57	1.43	67.7	79.37	4.75	15.1
07/16/89	102.84				86.08	83.98	12.78	1726.4	-75.5	808.2	0.18	8.4	173.8	1.7	1.67	1.52	70.7	79.41	4.67	15.0
07/23/89	102.73				86.08	84.18	12.58	1638.7	112.3	802.6	3.39	154.9	3272.5	32.7	1.47	1.34	61.1	79.34	4.84	14.2
07/30/89	102.63				86.07	84.02	12.88	1748.6	-92.1	800.8	0.04	1.9	38.8	0.4	1.85	1.68	78.9	79.27	4.74	15.4
08/06/89	102.44				86.05	83.96	12.60	1708.0	-39.6	805.8	0.75	34.4	724.0	7.2	1.68	1.43	65.5	79.20	4.75	14.8
08/13/89	102.25				86.05	84.06	12.39	1768.1	60.1	803.6	2.28	102.8	2181.7	21.8	1.29	1.10	49.9	79.22	4.84	14.6
08/20/89	102.05				86.09	84.02	12.37	1749.5	-18.6	805.1	1.00	46.1	985.3	9.7	1.51	1.28	59.2	79.16	4.87	15.1
08/27/89	101.88				86.05	84.18	12.17	1834.2	84.7	802.0	3.08	140.6	2953.9	29.5	1.80	1.53	70.3	79.17	5.00	15.2
09/03/89	101.89				86.05	84.42	11.93	1971.8	137.6	809.2	3.87	181.2	3755.8	37.4	1.83	1.59	65.1	79.17	5.24	15.9
09/10/89	101.82				86.02	84.45	11.87	1993.0	21.2	801.8	1.53	73.8	1477.0	14.8	1.37	1.04	50.3	79.27	5.19	17.2
09/17/89	101.72				86.04	84.44	11.90	1983.2	-9.8	800.8	0.98	47.5	946.0	9.5	1.35	1.03	49.7	79.40	5.03	17.1
09/24/89	101.73				86.02	84.48	11.94	2008.7	23.9	803.6	1.40	67.7	1351.5	13.5	1.12	0.85	41.2	79.40	5.07	18.5
10/01/89	101.88				86.03	84.55	11.88	2052.2	45.4	809.0	1.65	80.2	1592.8	15.9	0.92	0.70	34.0	79.47	5.09	16.7
10/08/89	101.59				86.04	84.60	11.74	2077.5	25.3	802.0	1.55	76.1	1496.3	16.0	1.40	0.99	48.8	79.47	5.13	16.9
10/15/89	101.20				86.24	84.52	11.72	2030.3	-47.1	806.3	0.05	2.5	48.3	0.5	0.94	0.67	32.9	79.30	5.21	17.2
10/22/89	101.00				86.12	84.52	11.60	2034.0	3.8	808.8	0.95	46.4	917.1	9.2	1.00	0.71	34.7	79.13	5.39	17.3
10/29/89	100.82				86.09	84.43	11.56	1978.8	-57.1	809.8	0.00	0.0	0.0	0.0	1.13	0.80	39.2	79.20	5.22	17.9
11/05/89	100.63				86.01	84.34	11.57	1928.5	-44.4	803.8	0.00	0.0	0.0	0.0	0.78	0.65	31.3	78.91	5.43	17.1
11/12/89	100.44				86.08	84.36	11.50	1937.5	9.0	804.9	1.05	50.2	1013.8	10.1	0.85	0.71	33.7	78.90	5.46	17.6
11/19/89	100.30				86.00	84.29	11.51	1897.5	-40.0	800.0	0.09	4.3	89.9	0.9	0.69	0.57	27.4	78.82	5.47	17.7
11/26/89	100.16				86.05	84.28	11.47	1892.5	-4.9	808.4	0.87	31.8	848.8	8.5	0.65	0.54	25.6	78.93	5.36	17.6
12/03/89	100.02																			

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin = 115.2 C1 = 2711769.8 C2 = -89513.29 C3 = 593.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin = 105.8 C1 = 502918 C2 = -13624.9 C3 = 122.8 C4 = -0.388		Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Geneva Lake Evap. ac-feet	Lakeland = 8.071E-04 1/day	Floridan Aquifer Elevation ft	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet
	Brooklyn Elevation ft	Brooklyn Discharge cfs	Brooklyn Discharge ac-feet	Effective Brooklyn Discharge ac-feet				Geneva Discharge cfs	Geneva Discharge ac-feet						Drainage Area Precip. ac-feet	Overland Runoff Volume ac-feet							
01/07/90	99.58				95.59	84.34	11.25			1827.1	6.7	573.7	0.82	39.1	791.6	7.9	0.89	0.48	21.7	78.84	5.70	18.8	
01/14/90	99.46				95.54	84.31	11.23			1907.8	-19.4	571.2	0.48	22.0	444.1	4.4	0.83	0.87	27.4	78.36	5.96	18.5	
01/21/90	99.27				95.47	84.22	11.25			1890.5	-47.1	565.3	0.00	0.0	0.0	0.0	0.85	0.89	27.9	78.48	5.74	19.2	
01/28/90	99.16				95.41	84.16	11.25			1822.9	-37.8	568.8	0.21	9.9	202.7	2.0	0.96	0.96	31.2	78.39	5.77	18.3	
02/04/90	99.06				95.34	84.11	11.23			1798.6	-24.2	567.5	0.39	18.2	376.5	3.8	0.82	0.90	28.0	78.43	5.89	18.3	
02/11/90	98.89				95.30	84.11	11.19			1796.4	-2.2	557.2	0.89	41.3	859.1	8.6	1.01	0.74	34.3	78.40	5.71	17.9	
02/18/90	98.85				95.42	84.07	11.35			1773.8	-22.6	564.3	0.80	27.9	579.2	5.6	1.13	0.82	36.3	78.29	5.78	18.0	
02/25/90	98.89				95.59	84.13	11.46			1807.6	33.8	568.6	1.37	63.3	1322.5	13.2	0.73	0.53	24.8	78.40	5.73	18.1	
03/04/90	98.83				95.62	84.06	11.56			1789.5	-36.1	563.8	0.43	20.0	415.1	4.2	1.13	0.95	44.2	78.84	5.42	18.1	
03/11/90	98.66				95.58	83.96	11.61			1709.8	-58.7	548.0	0.04	1.8	38.8	0.4	1.18	0.67	45.0	78.41	5.54	17.0	
03/18/90	98.50				95.49	83.88	11.61			1670.8	-39.0	540.9	0.58	26.4	559.9	5.6	1.41	1.18	53.9	78.40	5.48	17.1	
03/25/90	98.31				95.39	83.75	11.64			1602.5	-68.2	531.9	0.00	0.0	0.0	0.0	1.39	1.14	51.6	78.23	5.62	19.7	
04/01/90	98.18				95.36	83.89	11.48			1676.6	73.1	541.8	2.57	113.9	2480.9	24.8	1.35	1.11	49.1	78.26	5.63	18.6	
04/08/90	98.06				95.31	83.96	11.35			1715.5	39.9	548.8	2.11	95.2	2038.9	20.4	1.68	1.30	56.5	78.06	5.90	17.2	
04/15/90	97.82				95.14	83.82	11.32			1638.1	-77.5	536.6	0.01	0.5	6.7	0.0	1.60	1.31	59.8	78.01	5.81	18.2	
04/22/90	97.64				95.02	83.68	11.34			1665.4	-72.6	526.9	0.00	0.0	0.0	0.0	1.50	1.23	55.0	77.93	5.75	17.6	
04/29/90	97.51				94.99	83.70	11.29			1572.7	7.2	527.9	1.55	68.1	1496.3	15.0	1.63	1.34	58.7	77.94	5.75	17.1	
05/06/90	97.33				94.88	83.53	11.35			1484.8	-87.8	515.9	0.00	0.0	0.0	0.0	1.89	1.81	70.7	77.78	5.75	17.2	
05/13/90	97.18				94.77	83.43	11.34			1432.9	-51.9	508.7	0.54	23.2	521.3	5.2	1.74	1.48	63.8	77.57	5.86	16.8	
05/20/90	97.04				94.68	83.38	11.29			1412.7	-20.2	505.8	1.34	56.8	1293.5	12.9	2.03	1.73	73.1	77.55	5.84	16.6	
05/27/90	96.84				94.50	83.23	11.27			1335.2	-77.5	494.8	0.03	1.3	29.0	0.3	1.74	1.48	62.3	77.35	5.88	16.7	
06/03/90	96.68				94.40	83.19	11.21			1312.6	-22.6	491.5	1.42	58.5	1370.8	13.7	2.09	1.90	78.4	77.13	6.06	16.4	
06/10/90	96.61				94.40	83.21	11.19			1328.6	14.0	483.6	1.58	64.7	1525.2	15.3	1.32	1.20	49.2	77.28	5.94	16.8	
06/17/90	96.47				94.32	83.03	11.29			1298.0	-88.5	480.8	0.02	0.8	19.3	0.2	1.95	1.77	73.0	77.09	5.94	16.8	
06/24/90	96.41				94.34	83.27	11.07			1354.2	118.2	497.5	3.98	168.6	3822.7	38.2	1.77	1.81	64.5	77.32	5.95	18.1	
07/01/90	96.54				94.43	83.47	10.96			1455.4	101.2	511.8	3.34	138.5	3224.2	32.2	1.40	1.27	52.8	77.34	6.13	16.7	
07/08/90	96.45				94.34	83.41	10.93			1422.9	-32.5	507.3	0.88	36.7	830.2	8.3	1.64	1.40	59.8	77.16	6.25	17.7	
07/15/90	96.28				94.24	83.96	10.28			1713.4	290.5	548.5	7.14	301.8	6882.5	68.9	1.52	1.47	62.3	77.25	6.71	17.9	
07/22/90	96.23				94.28	84.03	10.25			1755.3	41.9	551.9	2.29	104.3	2210.8	22.1	1.64	1.40	63.8	77.27	6.77	20.7	
07/29/90	96.18				94.31	83.86	10.45			1659.4	-95.9	539.4	0.07	3.2	67.6	0.7	1.88	1.71	78.7	77.32	6.54	21.1	
08/05/90	96.02				94.29	83.74	10.55			1595.7	-63.8	531.0	0.41	18.4	395.8	4.0	1.73	1.47	66.1	77.01	6.73	18.9	
08/12/90	95.78				94.18	83.90	10.28			1690.1	84.3	542.1	2.79	123.4	2693.3	26.9	1.22	1.04	45.9	76.98	6.91	20.2	
08/19/90	95.55				94.08	83.89	10.19			1674.4	-5.6	541.4	1.32	58.8	1274.2	12.7	1.48	1.28	58.8	76.83	6.96	21.2	
08/26/90	95.36				93.96	83.82	10.06			1695.4	20.9	544.1	1.80	81.2	1737.6	17.4	1.47	1.25	58.4	76.88	7.04	21.3	
09/02/90	95.15				93.91	83.89	9.92			1731.7	36.4	548.9	2.07	93.9	1996.2	20.0	1.62	1.23	55.8	76.82	7.17	21.6	
09/09/90	94.95				93.83	83.89	9.94			1676.5	-55.2	541.7	0.29	13.3	279.9	2.8	1.41	1.07	49.0	76.78	7.13	22.2	
09/16/90	94.78				93.71	83.81	9.90			1634.2	-42.4	536.1	0.52	23.5	502.0	5.0	1.43	1.09	49.1	76.70	7.11	21.8	
09/23/90	94.60				93.58	83.89	9.89			1567.9	-66.3	527.2	0.22	9.8	212.4	2.1	1.67	1.27	58.7	76.83	7.06	21.5	
09/30/90	94.55				93.48	83.85	9.81			1548.4	-21.5	524.3	0.82	36.0	791.6	7.9	1.33	1.01	44.4	76.57	7.07	21.0	
10/07/90	94.49				93.42	83.54	9.88			1491.2	-55.2	516.8	0.08	3.5	77.2	0.8	1.24	0.88	38.5	76.61	7.03	21.0	
10/14/90	94.44				93.47	83.73	9.74			1591.9	100.6	530.4	3.00	129.2	2896.0	29.0	1.21	0.86	37.0	76.45	7.28	20.5	
10/21/90	94.38				93.60	83.64	9.96			1542.0	-49.9	523.7	0.12	5.3	115.8	1.2	1.10	0.78	34.5	76.39	7.25	21.8	
10/28/90	94.29				93.58	83.57	10.01			1508.8	-33.1	519.2	0.31	13.5	298.3	3.0	0.91	0.65	28.2	76.32	7.25	21.5	
11/04/90	94.19				93.45	83.47	9.96			1458.3	-52.5	511.9	0.00	0.0	0.0	0.0	0.87	0.72	31.2	76.26	7.21	21.3	
11/11/90	94.10				93.40	83.45	9.95			1443.9	-12.4	510.2	0.77	32.8	743.3	7.4	0.90	0.75	31.9	76.20	7.25	20.9	
11/18/90	94.00				93.34	83.34	10.00			1391.2	-52.7	502.8	0.00	0.0	0.0	0.0	0.90	0.75	31.8	76.16	7.18	20.9	
11/25/90	93.81				93.27	83.27	10.00			1355.1	-38.1	497.7	0.14	5.9	136.1	1.4	0.86	0.85	23.0	76.05	7.22	20.4	
12/02/90	93.61				93.19	83.20	9.99			1320.3	-34.8	492.7	0.18	8.8	154.5	1.5	0.71	0.65	22.7	75.92	7.29	20.3	
12/09/90	93.72				93.13	83.28	9.87			1349.9	29.6	498.9	1.32	64.2	1274.2	12.7	0.54	0.42	17.1	75.92	7.34	20.3	
12/16/90	93.62				93.12	83.18	9.94			1312.4	-37.5	491.5	0.00	0.0	0.0	0.0	0.83	0.41	16.9	75.99	7.20	20.6	
12/23/90	93.53				93.05	83.11	9.94			1274.1	-36.3	485.9	0.00	0.0	0.0	0.0	0.58	0.45	18.3	75.93	7.17	20.0	
12/30/90	93.43				92.98	83.03	9.95			1239.2	-34.9	480.8	0.07	2.8	87.6	0.7	0.80	0.46	18.7	75.93	7.10	19.7	
01/06/91	93.33				92.92	82.98	9.94			1210.8	-28.4	478.6	0.00	0.0	0.0	0.0	0.33	0.23	9.1	75.83	7.14	19.3	
01/13/91	93.24				92.93	83.12	9.81			1280.2	68.4	486.6	2.20	87.4	2123.7	21.2	0.73	0.50	20.0	75.92	7.19	19.2	
01/20/91	93.14				92.96	83.21	9.77			1325.1	44.9	483.3	1.64	66.5	1583.1	15.8	0.63	0.43	17.8	75.88	7.33	19.8	
01/27/91	93.18				93.03	83.28	9.77			1347.3	22.2	496.5	1.18	48.5	1139.1	11.4	0.81	0.42	17.3	75.78	7.48	20.4	
02/03/91	93.27				93.11	83.39	9.72			1413.5	68.2	505.9	1.98	81.9	1911.4	19.1	0.48	0.34	13.9	75.81	7.68	21.0	
02/10/91	93.25				93.07	83.32	9.76			1378.5	-34.9	501.0	0.13	5.5	125.5	1.3	0.85	0.47	20.0	75.93	7.28	21.7	
02/17/91	93.18				92.9																		

LAKE GENEVA LONG-TERM LAKE STAGE SIMULATION

Date	Hmin= 115.2 C1 = 2711789.8 C2 = -88613.29 C3 = 583.7937 C4 = -1.6903				Measured Geneva Elevation ft	Calculated Geneva Elevation ft	Elevation Difference (Meas. - Calculated) ft	Hmin= 105.8 C1 = 602918 C2 = -13624.9 C3 = 122.8 C4 = -0.368				Drainage area = 11584 Runoff Coeff. = 0.01		Geneva Lake Evap. in/week	Geneva Lake Evap. in/week	Geneva Lake Evap. ac-feet	Leakance = 0.071E-04 1/day					
	Effective Discharge = 90%		Geneva Discharge cfs	Geneva Discharge ac-feet				Geneva Volume at Start of Week ac-feet	Change in Geneva Volume During Week ac-feet	Geneva Surface Area acres	Etonia Precip. in/week	Lake Surface Precip. ac-feet	Drainage Area Precip. ac-feet				Overland Runoff Volume ac-feet	Gainesville Pan Evap. in/week	Floridan Aquifer Elevation elev	Lake - Floridan Aquifer Elevation ft	Geneva Leakage ac-feet	
	Brooklyn Elevation ft	Brooklyn Discharge cfs																				Brooklyn Discharge ac-feet
04/07/91	93.04				93.15	93.49	9.98	1467.3	-83.4	513.4	0.01	0.4	9.7	0.1	1.25	1.03	44.8	77.11	6.36	19.3		
04/14/91	92.97				93.11	93.48	9.63	1461.0	-6.3	512.6	1.11	47.5	1071.5	10.7	1.31	1.07	46.0	77.24	6.24	18.5		
04/21/91	92.87				93.25	93.72	9.53	1586.5	126.5	529.7	3.43	148.5	3311.1	33.1	1.03	0.84	36.1	77.48	6.25	16.1		
04/28/91	93.06				93.37	93.76	9.81	1805.8	19.3	532.3	1.40	81.8	1361.5	13.5	1.05	0.84	37.3	77.58	6.18	16.7		
05/05/91	93.19				93.26	93.65	9.81	1546.7	-69.1	524.3	0.36	16.0	347.5	3.5	1.59	1.35	60.0	77.81	6.03	16.6		
05/12/91	93.21				93.19	93.57	9.82	1506.1	-40.7	518.8	0.81	26.7	586.9	5.9	1.49	1.27	55.3	77.75	5.82	17.9		
05/19/91	93.06				93.15	93.49	9.96	1467.8	-38.3	513.5	0.90	34.6	772.3	7.7	1.73	1.47	63.6	77.74	5.75	17.1		
05/26/91	93.06				93.09	93.48	9.90	1481.2	-6.5	512.6	1.04	44.5	1003.9	10.0	1.22	1.04	44.4	77.81	5.68	16.7		
06/02/91	93.00				93.10	93.65	9.45	1550.1	68.8	524.8	2.98	126.4	2657.4	26.6	1.26	1.18	49.8	77.85	5.80	16.4		
06/09/91	92.88				93.18	93.68	9.50	1565.7	15.7	526.9	1.80	70.0	1544.5	15.4	1.32	1.20	52.5	78.17	5.51	17.2		
06/16/91	93.07				93.20	93.52	9.68	1479.4	-65.3	515.1	0.00	0.0	0.0	0.0	1.75	1.59	69.9	78.49	5.03	16.4		
06/23/91	93.07				93.14	93.54	9.50	1464.0	14.8	517.1	1.81	69.1	1554.2	15.5	1.42	1.29	55.5	78.55	4.90	14.8		
06/30/91	93.06				93.07	93.60	9.47	1521.8	27.9	521.0	1.95	84.0	1882.4	18.8	1.54	1.40	60.4	78.89	4.91	14.6		
07/07/91	93.03				93.00	93.60	9.50	1472.1	-49.7	514.1	0.43	18.7	415.1	4.2	1.47	1.34	58.1	78.70	4.80	14.4		
07/14/91	92.98				92.96	93.60	9.36	1521.2	49.0	520.9	1.92	82.3	1853.4	18.5	0.97	0.88	37.8	78.89	4.91	13.9		
07/21/91	92.95				93.03	93.56	9.47	1503.2	-18.0	515.4	0.99	43.0	955.7	9.6	1.42	1.29	50.1	78.79	4.77	14.4		
07/28/91	93.03				93.15	93.69	9.48	1569.4	66.2	527.4	2.47	106.7	2384.4	23.8	1.28	1.16	50.3	78.10	4.59	14.0		
08/04/91	93.16				93.32	93.93	9.39	1698.2	128.8	544.5	3.25	142.8	3137.3	31.4	0.85	0.72	31.8	79.41	4.52	13.7		
08/11/91	93.33				93.33	93.84	9.48	1651.2	-47.0	538.3	0.38	17.2	366.8	3.7	1.40	1.19	54.0	79.45	4.39	13.9		
08/18/91	93.50				93.23	93.78	9.45	1616.2	-35.0	533.7	0.66	29.6	537.1	6.4	1.51	1.23	57.6	79.50	4.20	13.4		
08/25/91	93.48				93.27	93.75	9.52	1603.5	-12.7	532.0	0.82	36.6	791.6	7.9	1.17	0.99	44.2	79.43	4.32	12.9		
09/01/91	93.58				93.31	94.07	9.24	1775.5	172.0	554.5	4.07	180.4	3928.9	39.3	1.03	0.78	34.7	79.38	4.69	13.0		
09/08/91	93.69				93.19	94.00	9.19	1738.1	-37.5	549.7	0.48	21.3	444.1	4.4	1.38	1.05	48.5	79.35	4.65	14.7		
09/15/91	93.65				93.07	93.58	9.19	1672.3	-65.8	541.1	0.01	0.5	9.7	0.1	1.49	1.13	51.9	79.21	4.87	14.4		
Max	117.03	26.59	369.22	332.30	107.23	105.13	15.45	0.00	0.00	29243.98	909.94	2063.78	10.02	839.80	9672.84	96.73	2.72	2.23	324.50	89.07	17.79	200.44
Min	92.87	0.00	0.00	0.00	92.86	82.96	0.00	0.00	0.00	1203.38	-482.81	475.45	0.00	0.00	0.00	0.00	0.27	0.19	9.12	75.66	0.24	0.96
Mean	108.32	1.20	16.71	15.04	101.52	89.75	11.77	0.00	0.00	7379.21	-19.20	959.11	1.00	79.53	961.57	9.52	1.22	1.00	80.84	83.59	6.17	42.56
Std.Dev.	5.84	3.65	50.65	45.59	3.69	6.05	3.48	0.00	0.00	7220.42	129.82	430.69	1.26	115.98	1219.85	12.20	0.45	0.42	53.43	2.90	4.15	46.42