

**CHAPTER 3: WATERSHED HYDROLOGY**  
**APPENDIX 3.A: LAND USE CLASSIFICATION/GROUPING**



HSPF Land Use Group		Florida Land Use and Cover Classification System (FLUCCS)		Imperviousness (% of land use area)	
Number	Name	Code	Description	Total Impervious	Directly Connected Impervious Area (DCIA)
1	Low-density residential			15	5
		1100	Residential, low density		
		1180	Residential, rural		
		1190	Low density under construction		
2	Medium-density residential			35	15
		1200	Residential, medium density		
		1290	Medium density under construction		
3	High-density residential			83	35
		1300	Residential, high density		
		1390	High density under construction		
4	Industrial and commercial			90	50
		1400	Commercial		
		1460	Oil and gas storage		
		1480	Cemeteries		
		1490	Commercial and services under construction		
		1510	Food processing		
		1520	Timber processing		
		1523	Pulp and paper mills		
		1530	Mineral processing		
		1540	Oil and gas processing		
		1550	Other light industry		
		1560	Other heavy industry		
		1562	Prestressed concrete plants		
		1590	Industrial under construction		
		1700	Institutional		
		1730	Military		
		1750	Governmental (Kennedy Space Center)		
		1830	Race tracks		
		1840	Marinas and fish camps		

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Number	Name	Code	Description	Total Impervious	Directly Connected Impervious Area (DCIA)
		1870	Stadiums		
		8110	Airports		
		8130	Bus and truck terminals		
		8140	Roads and highways		
		8150	Port facilities		
		8160	Canals and locks		
		8180	Auto parking facilities		
		8310	Electrical power facilities		
		8330	Water supply plants		
		8340	Sewage treatment plants		
		8350	Solid waste disposal		
5	Mining			0	0
		1600	Extractive		
		1610	Strip mines		
		1611	Clays		
		1612	Peat		
		1613	Heavy metals		
		1620	Sand and gravel pits		
		1630	Rock quarries		
		1632	Limerock and dolomite		
		1633	Phosphates		
		7420	Borrow areas		
		7430	Spoil areas		
6	Open land and barren land			0	0
		1640	Oil and gas fields		
		1650	Abandoned lands		
		1660	Holding ponds		
		1670	Abandoned mining lands		
		1800	Recreational		
		1810	Swimming beach		
		1850	Parks and zoos		
		1860	Community recreational facilities		
		1890	Other recreational		
		1900	Open land		
		1920	Inactive land with streets		
		7100	Beaches other than		

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Number	Name	Code	Description	Total Impervious	Directly Connected Impervious Area (DCIA)
			swimming beaches		
		7200	Sand other than beaches		
		7400	Disturbed land		
		7410	Rural land in transition		
		8120	Railroads		
		8200	Communications		
		8320	Electrical power transmission lines		
7	Pasture			0	0
		2110	Improved pastures		
		2120	Unimproved pasture		
		2130	Woodland pastures		
8	Agriculture general			0	0
		1820	Golf courses		
		2140	Row crops		
		2143	Potatoes and cabbage		
		2150	Field crops		
		2160	Mixed crops		
		2310	Cattle feeding operations		
		2320	Poultry feeding operations		
		2400	Nurseries and vineyards		
		2410	Tree nurseries		
		2420	Sod farms		
		2430	Ornamentals		
		2431	Shade ferns		
		2432	Hammock ferns		
		2450	Floriculture		
		2500	Specialty farms		
		2510	Horse farms		
		2520	Dairies		
		2540	Aquaculture		
		2600	Other open land, rural		
		2610	Fallow crop land		
9	Agriculture tree crops			0	0
		2200	Tree crops		
		2210	Citrus		

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Number	Name	Code	Description	Total Impervious	Directly Connected Impervious Area (DCIA)
		2240	Abandoned tree crops		
10	Rangeland			0	0
		3100	Herbaceous upland, non-forested		
		3200	Shrub and brushland		
		3300	Mixed upland, non-forested		
11	Forest			0	0
		4110	Pine flatwoods		
		4120	Longleaf pine, xeric oak		
		4130	Sand pine		
		4200	Upland hardwood forest		
		4210	Xeric oak		
		4280	Cabbage palm		
		4340	Upland mixed coniferous/hardwood		
		4370	Australian pine		
		4400	Tree plantations		
		4410	Coniferous pine		
		4430	Forest regeneration		
12	Water			100	100
		5100	Streams and waterways		
		5200	Lakes		
		5250	Marshy lakes		
		5300	Reservoirs		
		5400	Bays and estuaries		
		5430	Enclosed saltwater ponds within a salt marsh		
		5500	Major springs		
		5600	Slough waters		
		8360	Other treatment ponds		
13	Wetlands			0	0
		6110	Bay swamps		
		6120	Mangrove swamps		
		6170	Mixed wetland hardwoods		
		6181	Cabbage palm hammock		
		6182	Cabbage palm savannah		
		6210	Cypress		
		6220	Pond pine		

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		<b>(FLUCCS)</b>			
<b>Number</b>	<b>Name</b>	<b>Code</b>	<b>Description</b>	<b>Total Impervious</b>	<b>Directly Connected Impervious Area (DCIA)</b>
		6250	Hydric pine flatwoods		
		6300	Wetland forested mixed		
		6410	Freshwater marshes		
		6420	Saltwater marshes		
		6430	Wet prairies		
		6440	Emergent aquatic vegetation		
		6460	Mixed scrub-shrub wetland		
		6500	Nonvegetated wetland		