

Appendix 12.A. Fishes of the St. Johns River System

Sources: (McLane 1955; Tagatz 1968; Cox et al. 1980; MacDonald et al. 2009) Habitat:: A = Anadromous, M = Marine, E = Estuarine, F = Freshwater. Feeding and reproductive guilds are presented only for the 47 species used in the fresh water analysis. Feeding guilds follow Goldstein and Simon (1998) : C= Carnivore, D= Detritivore, H= Herbivore, I= Invertivore, O= Omnivore, P= Planktivore Reproductive guilds follow Simon (1998): A.1.2= Lithopelagophil, A.1.4= Non nest builder phytolithophil, A.1.5= Non nest builder phytophil, B.2.2= Polyphil, B.2.5= Nest building phytophil,, B.2.7= Speleophil, C.2.4= Viviparous,

Family <i>Scientific Name</i>	Common Name	Habitat	Reported in Middle Basin	Incl. in Freshwater Analysis	Incl. in Estuary Analysis	Feeding Guild	Reproductive Guild	Exotic
Petromyzontidae								
<i>Petromyzon marinus</i>	Sea Lamprey	A,M,E						
Sphyrnaeidae								
<i>Sphyrna lewini</i>	Scalloped hammerhead	M						
Dasyatidae								
<i>Dasyatis americana</i>	Southern stingray	M, E						
<i>Dasyatis sabina</i>	Atlantic stingray	M, E, F						
<i>Dasyatis say</i>	Bluntnose stingray	M,E						
Myliobatidae								
<i>Aetobatus narinari</i>	Spotted eagle ray	M,E						
Gymnuridae								
<i>Gymnura micrura</i>	Smooth butterfly ray	M,E						
<i>Rhinoptera bonasus</i>	Cownose ray	M,E						
Ascipenseridae								
<i>Ascipenser brevirostrum</i>	Shortnose sturgeon	A,M,E						
<i>Ascipenser oxyrinchus</i>	Atlantic sturgeon	A,M,E						
Lepisosteidae								
<i>Lepisosteus osseus</i>	Longnose gar	F	✓	✓	✓	C	A.1.4	
<i>Lepisosteus platyrhinchus</i>	Florida gar	F	✓	✓		C	A.1.5	
Phycidae								
<i>Urophycis regia</i>	Spotted hake	M,E						
<i>Urophycis floridana</i>	Southern hake	M,E						
Amiidae								
<i>Amia calva</i>	Bowfin	F	✓	✓		I,C	B.2.5	
Anguillidae								
<i>Anguilla rostrata</i>	American eel	A,E,F						
<i>Myrophis punctatus</i>	Speckled worm eel	M,E						
Ophichthidae								
<i>Ophichthus gomesii</i>	Shrimp eel	M						
Elopidae								
<i>Elops saurus</i>	Ladyfish	M,E			✓			
Albulidae								
<i>Albula vulpes</i>	Bonefish	M,E						
Megalopidae								
<i>Megalops atlanticus</i>	Atlantic tarpon	M,E						
Clupeidae								
<i>Alosa aestivalis</i>	Blueback herring	A,M,E,F	✓	✓		P	A.1.2	
<i>Alosa mediocris</i>	Hickory shad	A,M,E,F	✓	✓		P	A.1.2	
<i>Alosa sapidissima</i>	American shad	A,M,E,F	✓	✓		P	A.1.2	
<i>Brevoortia smithi</i>	Yellowfin menhaden	M,E						
<i>Brevoortia tyrannus</i>	Atlantic menhaden	M,E			✓			

Family	Scientific Name	Common Name	Habitat	Reported in Middle Basin	Inc. in Freshwater Analysis	Inc. in Estuary Analysis	Feeding Guild	Reproductive Guild	Exotic
Clupeidae (cont.)									
	<i>Dorosoma cepedianum</i>	Gizzard shad	F	✓	✓	✓	D,P	A.1.2	
	<i>Dorosoma petense</i>	Theadfin shad	E,F,	✓	✓		P	A.1.5	
	<i>Harengula jaguana</i>	Scaled sardine							
	<i>Opisthonema oglinum</i>	Atlantic thread herring	M,E			✓			
	<i>Sardinella aurita</i>	Round sardinella	M,E						
Engraulidae									
	<i>Anchoa hepsetus</i>	Striped anchovy	M,E			✓			
	<i>Anchoa mitchilli</i>	Bay anchovy	M,E,F			✓			
	<i>Anchoa cubana</i>	Cuban anchovy	M						
Umbridae									
	<i>Umbra pygmaea</i>	Eastern mudminnow	F	✓					
Esocidae									
	<i>Esox americanus</i>	Redfin pickerel	F	✓	✓		I,C	A.1.5	
	<i>Esox niger</i>	Chain pickerel	F	✓	✓		I,C	A.1.5	
Synodontidae									
	<i>Synodus foetens</i>	Inshore lizardfish	M,E						
	<i>Saurida brasiliensis</i>	Brazilian lizardfish	M						
Cyprinidae									
	<i>Notemigonus chrysoleucas</i>	Golden shiner	F	✓	✓	✓	O	A.1.5	
	<i>Notropis chalybaeus</i>	Ironcolor shiner	F	✓					
	<i>Notropis cummingsae</i>	Dusky shiner	F	✓					
	<i>Notropis harperi</i>	Redeye chub	F	✓					
	<i>Notropis hypselopterus</i>	Sailfin shiner	F	✓					
	<i>Notropis maculatus</i>	Taillight shiner	F	✓	✓		P	A.1.4	
	<i>Notropis petersoni</i>	Coastal shiner	F	✓	✓		H,I	A.1.5	
	<i>Opsopoeodus emiliae</i>	Pugnose minnow	F	✓	✓		O	B.2.7	
	<i>Pteronotropis welaka</i>	Bluenose shiner	F	✓					
Catostomidae									
	<i>Erimyzona sucetta</i>	Lake chubsucker	F	✓	✓		I,C	A.1.4	
Ariidae									
	<i>Bagre marinus</i>	Gafftopsail catfish	M,E						
	<i>Ariopsis felis</i>	Hardhead catfish	M,E						
Ictaluridae									
	<i>Ameiurus brunneus</i>	Snail bullhead	F	✓	✓		I,H,C	B.2.7	
	<i>Ameiurus catus</i>	White catfish	F	✓	✓	✓	I,C	B.2.7	
	<i>Ameiurus natalis</i>	Yellow bullhead	F	✓	✓		I,C	B.2.7	
	<i>Ameiurus nebulosus</i>	Brown bullhead	F	✓	✓		H,I,C	B.2.7	
	<i>Ictalurus punctatus</i>	Channel catfish	F	✓	✓	✓	I,C	B.2.7	
	<i>Noturus gyrinus</i>	Tadpole madtom	F	✓	✓		P,I	B.2.7	
	<i>Noturus leptacanthus</i>	Speckled madtom	F	✓					
Belonidae									
	<i>Strongylura marina</i>	Atlantic needlefish	M,E,F	✓		✓			
	<i>Stongylura notata</i>	Redfin needlefish	M,E,F						
	<i>Tylosurus crocodilus</i>	Hound needlefish	M						
Hemiramphidae									
	<i>Hyporhamphus meeki</i>	American halfbeak	M,E,F						
Cyprinodontidae									
	<i>Cyprinodon hubbsi</i>	Lake Eustis minnow	F	✓					
	<i>Cyprinodon variegatus</i>	Sheepshead minnow	E,F	✓	✓		H	B.2.2	

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Cyprinodontidae (cont.)									
	<i>Jordanella floridae</i>	Flagfish	F	✓	✓		H	B.2.2	
Fundulidae									
	<i>Fundulus chrysotus</i>	Golden topminnow	F	✓	✓		I	A.1.5	
	<i>Fundulus cingulatus</i>	Banded topminnow	F	✓					
	<i>Fundulus confluentus</i>	Marsh killifish	E	✓	✓		H,I	A.1.4	
	<i>Fundulus heteroclitus</i>	Mummichog	E,F			✓			
	<i>Fundulus majalis</i>	Striped killifish	E,F						
	<i>Fundulus notti</i>	Starhead topminnow	F	✓					
	<i>Fundulus seminolis</i>	Seminole killifish	F	✓	✓	✓	H,I	A.1.5	
	<i>Leptolucania ommata</i>	Pygmy killifish	F	✓					
	<i>Lucania goodei</i>	Bluefin killifish	F	✓	✓		H,I	A.1.5	
	<i>Lucania parva</i>	Rainwater killifish	E,F	✓	✓	✓	H,I	A.1.5	
Poeciliidae									
	<i>Gambusia holbrooki</i>	Mosquitofish	E,F	✓	✓	✓	I	C.2.4	
	<i>Heterandria formosa</i>	Least killifish	F	✓	✓		H,I	C.2.4	
	<i>Poecilia latipinna</i>	Sailfin molly	E,F	✓	✓		H,D,I	C.2.4	
Batrachoididae									
	<i>Opsanus tau</i>	Oyster toadfish	M,E						
Scorpaenidae									
	<i>Scorpaena brasiliensis</i>	Barbfish	M						
Syngnathidae									
	<i>Microphis brachyurus</i>	Opossum pipefish	E,F						
	<i>Syngnathus fuscus</i>	Northern pipefish	E,F						
	<i>Syngnathus louisianae</i>	Chain pipefish	E,F						
	<i>Syngnathus scovelli</i>	Gulf pipefish	E,F	✓	✓				
	<i>Syngnathus floridae</i>	Dusky pipefish	M						
	<i>Hippocampus erectus</i>	Lined seahorse	M						
Aphredoderidae									
	<i>Aphredoderus sayanus</i>	Pirate perch	F	✓					
Centropomidae									
	<i>Centropomus undecimalis</i>	Common snook	M,E						
Serranidae									
	<i>Centropristis philadelphica</i>	Rock sea bass	M,E						
	<i>Centropristis striata</i>	Black sea bass	M,E						
	<i>Mycteroperca microlepis</i>	Gag	M,E						
	<i>Diplectrum formosum</i>	Sand perch	M						
Moronidae									
	<i>Morone saxatilis</i>	Striped bass	M,E						
Lutjanidae									
	<i>Lutjanus analis</i>	Mutton snapper	M,E						
	<i>Lutjanus griseus</i>	Gray snapper	M,E						
	<i>Lutjanus synagris</i>	Lane snapper	M,E						
Centrarchidae									
	<i>Acantharchus pomotis</i>	Mud sunfish	F	✓					
	<i>Centrarchus macropterus</i>	Flier	F	✓					
	<i>Enneacanthus chaetodon</i>	Blackbanded sunfish	F	✓					
	<i>Enneacanthus gloriosus</i>	Bluespotted sunfish	F	✓	✓		I	B.2.5	
	<i>Enneacanthus obesus</i>	Banded sunfish	F	✓	✓		I	B.2.2	
	<i>Lepomis auritus</i>	Redbreast sunfish	F	✓	✓	✓	I	B.2.2	
	<i>Lepomis gulosus</i>	Warmouth	F	✓	✓		I,C	B.2.2	
	<i>Lepomis macrochirus</i>	Bluegill	F	✓	✓	✓	I	B.2.2	

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Centrarchidae (cont.)									
	<i>Lepomis microlophus</i>	Redear sunfish	F	✓	✓	✓	I	B.2.2	
	<i>Lepomis punctatus</i>	Spotted sunfish	F	✓	✓		I	B.2.2	
	<i>Micropterus salmoides</i>	Largemouth bass	F	✓	✓	✓	I,C	B.2.2	
Centrarchidae									
	<i>Pomoxis nigromaculatus</i>	Black crappie	F	✓	✓		I,C	B.2.5	
Elassomatidae									
	<i>Elassoma evergladei</i>	Everglades pygmy sunfish	F	✓	✓		I	B.2.2	
	<i>Elassoma okefenokee</i>	Okefenokee pygmy sunfish	F	✓					
	<i>Elassoma zonatum</i>	Banded pygmy sunfish	F	✓					
Percidae									
	<i>Etheostoma fusiforme</i>	Swamp darter	F	✓	✓		I	A.1.4	
	<i>Etheostoma edwini</i>	Brown darter	F	✓					
	<i>Etheostoma nigrum</i>	Johnny darter	F	✓					
	<i>Percina nigrofasciata</i>	Blackbanded darter	F	✓					
Rachycentridae									
	<i>Rachycentron canadum</i>	Cobia	M						
Pomatomidae									
	<i>Pomatomus saltatrix</i>	Bluefish	M						
Lobotidae									
	<i>Lobotes surinamensis</i>	Tripletail	M						
Carangidae									
	<i>Caranx hippos</i>	Crevalle jack	M,E			✓			
	<i>Chloroscombrus chrysurus</i>	Bumper	M,E			✓			
	<i>Oligoplites saurus</i>	Leatherjacket	M,E						
	<i>Selene vomer</i>	Lookdown	M,E			✓			
	<i>Selene setapinnis</i>	Atlantic moonfish	M,E			✓			
	<i>Trachinotus carolinus</i>	Florida pompano	M,E						
	<i>Trachinotus falcatus</i>	Permit	M,E						
	<i>Vomer setapinnis</i>	Atlantic moonfish	M,E						
	<i>Caranx latus</i>	Horse-eye jack	M,E,F						
	<i>Caranx crysos</i>	Blue runner	M						
Gerreidae									
	<i>Diapterus auratus</i>	Irish pompano	M,E,F			✓			
	<i>Diapterus plumieri</i>	Striped mojarra	M,E			✓			
	<i>Eucinostomus argenteus</i>	Spotfin mojarra	M,E,F						
	<i>Eucinostomus harengulus</i>	Tidewater mojarra	M,E,F			✓			
	<i>Eucinostomus gula</i>	Silver jenny	M,E			✓			
Haemulidae									
	<i>Orthopristis chrysoptera</i>	Pigfish	M,E,F						
Sciaenidae									
	<i>Cynoscion nebulosus</i>	Spotted seatrout	M,E,F			✓			
	<i>Cynoscion regalis</i>	Weakfish	M,E,F			✓			
	<i>Cynoscion nothus</i>	Silver seatrout	M,E			✓			
	<i>Leiostomus xanthurus</i>	Spot	M,E,F			✓			
	<i>Menticirrhus americanus</i>	Southern kingfish	M,E			✓			
	<i>Menticirrhus saxatilis</i>	Northern kingfish	M,E						
	<i>Menticirrhus littoralis</i>	Gulf kingcroaker	M,E						
	<i>Micropogonias undulatus</i>	Atlantic croaker	M,E,F			✓			
	<i>Pogonias cromis</i>	Black drum	MC,E,F			✓			

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Sciaenidae (cont.)									
	<i>Stellifer lanceolatus</i>	Star drum	M,E						
	<i>Larimus fasciatus</i>	Banded drum	M,E						
Sparidae									
	<i>Archosargus probatocephalus</i>	Sheepshead	M,E,F			✓			
	<i>Lagodon rhomboides</i>	Pinfish	M,E,F			✓			
Ephippidae									
	<i>Chaetodipterus faber</i>	Atlantic spadefish	M,E,F						
Trichiuridae									
	<i>Trichiurus lepturus</i>	Atlantic cutlassfish	M,E						
Scombridae									
	<i>Scomberomorus maculatus</i>	Spanish mackerel	M,E						
Eleotridae									
	<i>Dormitator maculatus</i>	Fat sleeper	E,F						
	<i>Eleotris picta</i>	Spotted sleeper	F						
	<i>Eleotris amblyopsis</i>	Large-scaled spinycheek sleeper	M,E,F						
Gobiidae									
	<i>Awaous banana</i>	River goby	F						
	<i>Gobioides broussonnetii</i>	Violet goby	E,F						
	<i>Ctenogobius boleosoma</i>	Darter goby	E,F			✓			
	<i>Gobionellus oceanicus</i>	Highfin goby	E						
	<i>Ctenogobius shufeldti</i>	Freshwater goby	E,F			✓			
	<i>Erotelis smaragdus</i>	Emerald goby	E,F						
	<i>Ctenogobius stigmaticus</i>	Marked goby	M,E						
	<i>Gobiosoma bosc</i>	Naked goby	E,F	✓	✓	✓	I	B.2.7	
	<i>Gobiosoma robustum</i>	Code goby	E,F						
	<i>Microgobius gulosus</i>	Clown goby	E,F	✓	✓	✓	I	B.2.7	
	<i>Microgobius thalassinus</i>	Green goby	E,F						
	<i>Evorthodus lyricus</i>	Lyre goby	M,E,F						
	<i>Bathygobius soporator</i>	Frillfin goby	M,E						
Triglidae									
	<i>Prionotus scitulus</i>	Leopard searobin	M,E						
	<i>Prionotus tribulus</i>	Bighead searobin	M,E						
	<i>Prionotus rubio</i>	Blackwing searobin	M,E						
	<i>Prionotus evolans</i>	Striped searobin	M,E						
Ogcocephalidae									
	<i>Ogcocephalus cubifrons</i>	Polka-dot batfish	M						
Uranoscopidae									
	<i>Astroscopus y-graecum</i>	Southern stargazer	M,E						
Blenniidae									
	<i>Chasmodes bosquianus</i>	Striped blenny	M,E						
	<i>Hypsoblennius henz</i>	Feather blenny	M,E						
	<i>Hypsoblennius ionthas</i>	Freckled blenny	M,E						
	<i>Hyleurochilus geminatus</i>	Crested blenny*	M						
Ophidiidae									
	<i>Ophidion welschi</i>	Crested cusk-eel	M,E						
	<i>Ophidion josephi</i>	Crested cusk-eel	M,E						
	<i>Ophidion holbrooki</i>	Bank cusk-eel	M,E						
	<i>Lepophidium brevibarbe</i>	Shortbeard cusk-eel	M						
Stromateidae									
	<i>Peprilus alepidotus</i>	Southern harvestfish	M,E						

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Stromateidae (cont.)									
	<i>Peprilus triacanthus</i>	Atlantic butterfish	M,E						
	<i>Peprilus paru</i>	American harvestfish	M,E						
	<i>Aluterus monoceros</i>	Unicorn leatherjacket filefish	M						
	<i>Aluterus schoepfii</i>	Orange filefish	M						
	<i>Stephanolepis hispidus</i>	Planehead filefish	M,E						
Sphyraenidae									
	<i>Sphyraena barracuda</i>	Great barracuda	M,E						
	<i>Sphyraena guachancho</i>	Guachanche barracuda	M,E						
	<i>Sphyraena borealis</i>	Northern sennet	M						
Mugilidae									
	<i>Agonostomus monticola</i>	Mountain mullet	E,F						
	<i>Mugil cephalus</i>	Striped mullet	M,E,F	✓		✓			
	<i>Mugil curema</i>	White mullet	M,E,F			✓			
Atherinidae									
	<i>Labidesthes sicculus</i>	Brook silverside	F	✓	✓		P,I	A.1.4	
	<i>Membras martinica</i>	Rough silverside	E,F	✓					
	<i>Menidia beryllina</i>	Tidewater silverside	E,F	✓	✓		P,I	A.1.4	
	<i>Menidia menidia</i>	Atlantic silverside	E,F			✓			
Bothidae									
	<i>Ancyclopsetta quadrocellata</i>	Ocellated flounder	M,E						
	<i>Citharichthys spilopterus</i>	Bay whiff	M,E,F			✓			
	<i>Citharichthys macrops</i>	Spotted whiff	M						
	<i>Etropus crossotus</i>	Fringed flounder	M,E			✓			
	<i>Paralichthys albigutta</i>	Gulf flounder	M,E						
	<i>Paralichthys dentatus</i>	Summer flounder	M,E						
	<i>Paralichthys lethostigma</i>	Southern flounder	M,E,F			✓			
	<i>Paralichthys squamilentus</i>	Broad flounder	M						
	<i>Scophthalmus aquosus</i>	Windowpane	M,E						
Soleidae									
	<i>Achirus lineatus</i>	Lined sole	M,E,F						
	<i>Trinectes maculatus</i>	Hogchoker	M,E,F						
Cynoglossidae									
	<i>Symphurus plagiusa</i>	Blackcheek tonguefish	M,E,F			✓			
	<i>Symphurus civitatum</i>	Offshore tonguefish	M						
Gobiesocidae									
	<i>Gobiesox strumosus</i>	Skilletfish	M,E,F						
Tetraodontidae									
	<i>Sphoeroides maculatus</i>	Northern puffer	M,E						
	<i>Sphoeroides testudineus</i>	Checkered puffer	M,E						
	<i>Sphoeroides nephelus</i>	Southern puffer	M,E			✓			
	<i>Sphoeroides spengleri</i>	Bandtail puffer	M,E						
Diodontidae									
	<i>Chilomycterus schoepfii</i>	Striped burrfish	M			✓			
Cichlidae									
	<i>Oreochromis aureus</i>	Blue tilapia	F	✓					✓
	<i>Oreochromis mossambicus</i>	Mozambique tilapia	F	✓					✓

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Clariidae									
	<i>Clarias batrachus</i>	Walking catfish	F	✓					✓
Loracariidae									
	<i>Pterygoplichthys multiradiatus</i>	Sailfin catfish	F	✓					✓
	<i>Pterygoplichthys disjunctivus</i>	Vermiculated sailfin catfish	F	✓					✓
Callichthyidae									
	<i>Hoplosternum littorale</i>	Brown hoplo catfish	F	✓					✓

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