

APPENDIX B

New Jersey Division of Fish & Wildlife List of New Jersey Freshwater Fishes (Revised 2005)

Scientific Name	Common Name	Trophic Guild	Tolerance	Historical Presence
Petromyzontidae:				
<i>Lampetra appendix</i>	American brook lamprey	NF	IS	N
<i>Petromyzon marinus</i>	sea lamprey	PF	MT	N
Acipenseridae:				
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon	BI	IS	N
<i>Acipenser brevirostrum</i>	shortnose sturgeon	BI	IS	N
Lepisosteidae:				
<i>Lepisosteus osseus</i>	longnose gar	P	M	EX
Amiidae:				
<i>Amia calva</i>	bowfin	P	TS	US
Anguillidae:				
<i>Anguilla rostrata</i>	American eel	P	TS	N
Clupeidae:				
<i>Alosa aestivalis</i>	blueback herring	PL	MT	N
<i>Alosa mediocris</i>	hickory shad	I/P	US	N
<i>Alosa pseudoharengus</i>	alewife	PL	MT	N
<i>Alosa sapidissima</i>	American shad	PL	MT	N
<i>Dorosoma cepedianum</i>	gizzard shad	G	TS	N
Salmonidae:				
<i>Oncorhynchus mykiss</i>	rainbow trout	I/P	IS	NN
<i>Salmo trutta</i>	brown trout	I/P	IS	E
<i>Salvelinus fontinalis</i>	brook trout	I/P	IS	N
<i>Salvelinus namaycush</i>	lake trout	P	IS	NN
Osmeridae:				
<i>Osmerus mordax</i>	rainbow smelt	I	IS	N
Umbridae:				
<i>Umbra pygmaea</i>	eastern mudminnow	I	TS	N
Esocidae:				
<i>Esox americanus</i>	redfin pickerel	P	MT	N
<i>Esox lucius</i>	northern pike	P	IS	NN
<i>Esox niger</i>	chain pickerel	P	MT	N
<i>Esox masquinongy</i>	muskellunge	P	IS	NN

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Cyprinidae:				
<i>Carassius auratus</i>	goldfish	G	TS	E
<i>Cyprinus carpio</i>	common carp	G	TS	E
<i>Cariodes cyprinus</i>	quillback	BI	TS	N
<i>Exoglossum maxillingua</i>	cutlips minnow	BI	IS	N
<i>Hybognathus regius</i>	eastern silvery minnow	H	MT	N
<i>Notemigonus crysoleucas</i>	golden shiner	G	TS	N
<i>Notropis amoenus</i>	comely shiner	I	TS	N
<i>Cyprinella analostana</i>	satinfin shiner	I	TS	N
<i>Cyprinella spiloptera</i>	spotfin shiner	I	TS	N
<i>Notropis bifrenatus</i>	bridle shiner	I	IS	N
<i>Notropis chalybaeus</i>	ironcolor shiner	I	IS	N
<i>Luxilis cornutus</i>	common shiner	I	MT	N
<i>Notropis husdonius</i>	spottail shiner	I	MT	N
<i>Notropis procne</i>	swallowtail shiner	I	MT	N
<i>Pimephales promelas</i>	fathead minnow	G	TS	NN
<i>Pimephales notatus</i>	bluntnose minnow	G	TS	NN
<i>Rhinichthys atratulus</i>	blacknose dace	BI	TS	N
<i>Rhinichthys cataractae</i>	longnose dace	BI	MT	N
<i>Semotilus atromaculatus</i>	creek chub	I	TS	N
<i>Semotilus corporalis</i>	fallfish	I	MT	N
<i>Ctenopharyngodon idella</i>	grass carp	H	MT	E
Catostomidae:				
<i>Catostomus commersoni</i>	white sucker	BI	TS	N
<i>Erimyzon oblongus</i>	creek chubsucker	BI	MT	N
<i>Hypentelium nigricans</i>	northern hog sucker	BI	IS	N
Ictaluridae:				
<i>Ameiurus catus</i>	white catfish	I/P	MT	N
<i>Ameiurus melas</i>	black bullhead	BI	MT	NN
<i>Ameiurus natalis</i>	yellow bullhead	BI	MT	US
<i>Ameiurus nebulosus</i>	brown bullhead	BI	TS	N
<i>Ictalurus punctatus</i>	channel catfish	I/P	MT	NN
<i>Noturus gvrinus</i>	tadpole madtom	BI	MT	N
<i>Noturus insignis</i>	margined madtom	BI	IS	N
Aphredoderidae:				
<i>Aphredoderus savanus</i>	pirate perch	I	MT	N
Cyprinodontidae:				
<i>Fundulus diaphanus</i>	banded killifish	I	TS	N
<i>Fundulus heteroclitus</i>	mummichog	I	TS	N
Poeciliidae:				
<i>Gambusia holbrooki</i>	eastern mosquitofish	I	TS	N
<i>Gambusia affinis</i>	mosquitofish	I	TS	NN

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Gasterosteidae:				
<i>Apletes quadracus</i>	fourspine stickleback	I	MT	N
<i>Gasterosteus aculeatus</i>	threespine stickleback	I	MT	N
<i>Pungitius pungitius</i>	ninespine stickleback	I	MT	N
Moronidae:				
<i>Morone americana</i>	white perch	I/P	MT	N
<i>Morone saxatilis</i>	striped bass	P	MT	N
Centrarchidae:				
<i>Acantharchus pomotis</i>	mud sunfish	I	MT	N
<i>Ambloplites rupestris</i>	rock bass	I/P	MT	NN
<i>Enneacanthus chaetodon</i>	blackbanded sunfish	I	IS	N
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	I	IS	N
<i>Enneacanthus obesus</i>	banded sunfish	I	IS	N
<i>Lepomis cyanellus</i>	green sunfish	I/P	TS	NN
<i>Lepomis gibbosus</i>	pumpkinseed	I	MT	N
<i>Lepomis macrochirus</i>	bluegill	I	TS	NN
<i>Lepomis auritus</i>	redbreasted sunfish	I	MT	N
<i>Lepomis gulosus</i>	warmouth	I/P	TS	NN
<i>Micropterus dolomieu</i>	smallmouth bass	I/P	MT	NN
<i>Micropterus salmoides</i>	largemouth bass	P	MT	NN
<i>Pomoxis annularis</i>	white crappie	I/P	TS	NN
<i>Pomoxis nigromaculatus</i>	black crappie	I/P	MT	NN
Percidae:				
<i>Etheostoma fusiforme</i>	swamp darter	BI	IS	N
<i>Etheostoma olmstedii</i>	tessellated darter	BI	MT	N
<i>Perca flavescens</i>	yellow perch	I/P	MT	N
<i>Percina peltata</i>	shield darter	BI	IS	N
<i>Sander vitreus</i>	walleye	P	IS	NN
Cottidae:				
<i>Cottus cognatus</i>	slimy sculpin	BI	IS	N
Cobitidae:				
<i>Misgurnus</i>	oriental weatherfish	G	TS	E
Soleidae:				
<i>Trinectes maculatus</i>	hogchoker	G	IS	N

Key:

Abbreviation	Term	Definition
Trophic Guild		
BI	Benthic Insectivore	Specialist feeder that primarily consumes insects taken from the bottom substrate.
H	Herbivore	A species that consumes plant and algae materials.
I	Insectivore	A species that consumes primarily insects.
NF	Nonparasitic Filterer	A species that feeds by filtering algae and other microorganisms found in detritus.
G	Generalist	A species that consumes a wide variety of food types from a wide variety of habitats.
P	Piscivore	A species that primarily consumes fish.
PF	Parasitic Filterer	A species that feeds by attaching to and rasping a hole in the side of a large fish.
PL	Planktivore	A species that consumes small organisms (algae and animals) that float in the water column.
Historical Presence		
E	Exotic	A non-native species introduced from a foreign country.
EX	Extirpated	A native species no longer present, either as a result of natural causes or because of eradication by humans.
N	Native	In the U.S., a species historically occurring in a geographic range previous to the arrival of the first European settlers.
NN	Non-Native	A species found outside of their historical range. The occurrence of a non-native species may be a result of intentional stocking (sportfish or biological control), unintentional stocking (escape), or a response to habitat/climatic changes.
Tolerance		
IS	Intolerant Species	A species most sensitive to environmental degradation. These species have historical distributions significantly greater than presently occurring populations.
TS	Tolerant Species	A species least sensitive to environmental degradation. These species can withstand stressful environmental conditions and often become a dominant member in the fish assemblage.
Miscellaneous		
US	Uncertain Status	An assignment in which there is not enough data or no general consensus to make a confident classification at this point in time.