

## Appendix H

### Pennsylvania Aquatic Species List

**Pennsylvania's Aquatic Insects and Other Animals Without Backbones - Table 1**

<b>Insecta</b>	Collembola	Onychiuridae	Onychiurus	Poduridae
Podura	Ephemeroptera	Ameletidae	Ameletus	Siphonuridae
Siphonisca	Siphonurus	Metretopodidae	Metrotopus	Baetidae
Acentrella	Acerpenna	Baetis	Barbaetis	Callibaetis
Centropilum	Cloeon	Dipheter	Falleon	Labiobaetis
Procloeon	Heterocloeon	Plauditus	Isonychiidae	Isonychia
Heptageniidae	Epeorus	Heptagenia	Leucrocuta	Nixe
Rhithrogena	Stenacron	Stenonema	Cinygmula	Arthropleidae
Arthroplea	Ephemerellidae	Attenella	Drunella	Ephemerella
Euryophella	Serratella	Timpanoga	Neophemeridae	Neophemera
Caenidae	Brachycercus	Caenis	Baetiscidae	Baetisca
Leptophlebiidae	Choroterpes	Habrophlebia	Habrophlebiodes	Leptophlebia
Paraleptophlebia	Potamanthidae	Anthopotamus	Ephemeridae	Ephemera
Hexagenia	Litobranca	Pentagenia	Polymitarcyidae	Ephoron
Tricorythidae	Tricorythodes	Leptohyphes	Odonata	Petaluridae
Tachopteryx	Gomphidae	Aphylla	Arigomphus	Dromogomphus
Erpetogomphus	Gomphus	Hagenius	Lanthus	Ophiogomphus
Progomphus	Stylogomphus	Stylurus	Aeshnidae	Aeshna
Anax	Basiaeschna	Boyeria	Epiaeschna	Gomphaeschna
Nasiaeschna	Cordulegastridae	Cordulegaster	Corduliidae	Didymops
Cordulia	Dorocordulia	Epithea	Helocordulia	Somatochlora
Williamsonia	Macromia	Neurocordulia	Libellulidae	Celithemis
Erythemis	Erythrodiplax	Ladona	Leucorrhinia	Libellula
Nannothemis	Pachydiplax	Pantala	Perithemis	Plathemis
Sympetrum	Tramea	Calopterygidae	Calopteryx	Hetaerina
Lestes	Coenagrionidae	Amphiagrion	Argia	Chromagrion
Coenagrion	Enallagma	Ischnura	Nehalennia	Plecoptera
Pteronarcyidae	Pteronarcys	Peltoperlidae	Peltoperla	Tallaperla
Viehopera	Taeniopterygidae	Taeniopteryx	Bolotoperla	Oemopteryx
Strophopteryx	Taenionema	Nemouridae	Amphinemura	Ostrocercia
Paranemoura	Podmosta	Prostoia	Shipsa	Soyedina
Zapada	Nemoura	Leuctridae	Megaleuctra	Leuctra
Paraleuctra	Zealeuctra	Capniidae	Allocapnia	Capnia
Nemocapnia	Paracapnia	Utacapnia	Capnura	Perlidae
Agnetina	Hansonoperla	Neoperla	Paragnetina	Acroneuria
Attaneuria	Eccoptura	Perlesta	Beloneuria	Perlina
Perlodidae	Cultus	Diploperla	Diura	Helopicus
Hydroperla	Isogenoides	Malirekus	Oconoperla	Remenus
Yugus	Clioperla	Isoperla	Arcynopteryx	Chloroperlidae
Utaperla	Alloperla	Haploperla	Rasvena	Suwallia
Sweltsa	Hemiptera	Hydrometridae	Hydrometra	Veliidae
Microvelia	Rhagovelia	Steinovelia	Ceratocombidae	Ceratocombus
Gerridae	Aquarius	Gerris	Halobates	Rheumatobates
Metrobates	Trepobates	Limnopus	Belostomatidae	Belostoma
Lethocerus	Nepidae	Nepa	Ranatra	Pleidae
Neoplea	Naucoridae	Pelocoris	Corixidae	Hesperocorixa
Palmacorixa	Ramphocorixa	Sigara	Trichocorixa	Notonectidae
Buena	Notonecta	Mesoveliidae	Mesovelia	Hebridae
Hebrus	Merragata	Saldidae	Micracanthia	Pentacora
Salda	Saldula	Gelastocoridae	Gelastocoris	Ochteridae
Ochterus	Megaloptera	Sialidae	Sialis	Corydalidae
Corydalus	Chauliodes	Neohermes	Nigrionia	Neuroptera
Sisyridae	Climacia	Sisyra	Trichoptera	Philopotamidae
Chimarra	Dolophilodes	Wormaldia	Psychomyiidae	Lype
Psychomyia	Polycentropodidae	Cernotina	Cynellus	Neureclipsis
Paranyciophylax	Polycentropus	Phylocentropus	Nyctiophylax	Hydropsychidae
Arctopsyche	Parapsyche	Diplectrona	Homoplectra	Ceratopsyche
Cheumatopsyche	Hydropsyche	Potamyia	Macrostemum	Rhyacophilidae
Rhyacophila	Glossosomatidae	Glossosoma	Agapetus	Culoptila
Protoptila	Hydroptilidae	Palaeagapetus	Agraylea	Dibusa
Hydroptila	Ochrotrichia	Oxyethira	Stactobiella	Leucotrichia

Ithytrichia	Orthotrichia	Neotrichia	Mayatrichia	Phryganeidae
Agrypnia	Banksiola	Beothukus	Fabria	Hagenella
Oligostomis	Phryganea	Ptilostomis	Brachycentridae	Adicrophleps
Brachycentrus	Micrasema	Lepidostomatidae	Lepidostoma	Theliopsyche
Limnephilidae	Ironoquia	Onocosmoecus	Apatania	Pseudostenophylax
Anabolia	Arctopora	Clostoecca	Frenesia	Hesperophylax
Hydatophylax	Leptophylax	Limnephilus	Philarctus	Platycentropus
Pycnopsyche	Goera	Madeophylax	Glyphopsyche	Uenoidae
Neophylax	Beraeidae	Beraea	Sericostomatidae	Agarodes
Psilotreta	Molannidae	Molanna	Helicopsychidae	Helicopsyche
Calamoceratidae	Heteroplectron	Leptoceridae	Ceraclea	Leptocerus
Mystacides	Nectopsyche	Oecetis	Setodes	Trienodes
Odontoceridae	Lepidoptera	Pyralidae	Langessa	Munroessa
Neocataclysta	Nymphula	Nymphuliella	Parapoynx	Synclita
Eoparargyractis	Petrophila	Acentria	Schoenobius	Chilo
Acigona	Ostrinia	Nepticulidae	Stigmella	Cosmopterigidae
Cosmopteryx	Lymnaecia	Noctuidae	Archanara	Bellura
Simyra	Tortricidae	Archips	Coleophoridae	Colephora
Coleoptera	Gyrinidae	Dineutus	Gyrinus	Spanglerogyrus
Halipilidae	Halipus	Peltodytes	Dytiscidae	Acilius
Agabetes	Agabus	Bidessonotus	Brachyvatus	Celina
Copelatus	Colymbetes	Coptotomus	Cybister	Desmopachria
Dytiscus	Graphoderus	Hydaticus	Hydrovatus	Hygrotus
Ilybius	Laccophilus	Laccornis	Liodes	Lioporus
Matus	Nebrioporus	Oreodytes	Rhantus	Stictotarsus
Uvarus	Noteridae	Hydrocanthus	Pronoterus	Suphis
Suphisellus	Helophoridae	Helophorus	Hydrochidae	Hydrochus
Hydrophilidae	Anacaena	Berosus	Chaetarthria	Crenitis
Cymbiodyta	Derallus	Dibolocelus	Enochrus	Helochares
Helocombus	Hydrobius	Hydrochara	Hydrophilus	Lacobius
Paracymus	Sperchopsis	Tropisternus	Staphylinidae	Bledius
Carpelimus	Psephidonus	Thinobius	Stenus	Hydraenidae
Hydraena	Limnebius	Ochthebius	Psephenidae	Eubrianax
Psephenus	Dicranopselaphus	Ectopria	Dryopidae	Dryops
Helichus	Scirtidae	Cyphon	Elodes	Flavohelodes
Scirtes	Elmidae	Ancyronyx	Dubiraphia	Gonielmis
Macronychus	Microcylloepus	Optioservus	Ordobrevia	Oulimnius
Promoresia	Stenelmis	Ptilodactylidae	Anchytarsus	Lutrochidae
Lutrochus	Chrysomelidae	Disonycha	Donacia	Hydrothassa
Neohaemonia	Prasocuris	Pyrrhalta	Curculionidae	Auleutes
Bagous	Brachybamus	Euhrychiopsis	Lissorhoptrus	Listronotus
Lixellus	Lixus	Notiodes	Onychylis	Perenthis
Pelenomus	Phytobius	Stenopelmus	Steremnius	Tanyssphyrus
Histeridae	Hymenoptera	Pompilidae	Anoplius	Scelionidae
Pseudanteris	Telenomus	Thoron	Tiphodytes	Diapriidae
Trichopria	Ichneumonidae	Apsilops	Cremastus	Medophron
Mesoleptus	Phygadeuon	Braconidae	Ademon	Aphanta
Asobara	Bracon	Chaenusa	Chorebidella	Chorebus
Dacnusa	Opius	Phaenocarpa	Mymaridae	Caraphractus
Trichogrammatida	Hydrophylita	Lathromeroidea	Paracentrobia	Trichogramma
Eulophidae	Aprostocetus	Mestocharis	Tetrastichus	Pteromalidae
Gyrinophagus	Sisridivora	Eucoilidae	Hexacola	Diptera
Blephariceridae	Blepharicera	Ceratopogonidae	Dasyhelea	Atrichopogon
Forcipomyia	Alluaudomyia	Bezzia	Brachypogon	Ceratopogon
Clinohalea	Culicoides	Johannsenomyia	Mallochohelea	Monohelea
Nilobezzia	Palpomyia	Probezzia	Seromyia	Sphaeromyias
Stilobezzia	Leptoconops	Chaoboridae	Chaoborus	Mochlonyx
Dixidae	Dixa	Dixella	Nymphomyiidae	Nymphomyia
Psychodidae	Pericoma	Philosepedon	Psychoda	Telmatoscopus
Threticus	Ptychopteridae	Bittacomorpha	Bittacomorphella	Ptychoptera
Tanyderidae	Protoplasa	Thaumalea	Trichothaumalea	Athericidae
Atherix	Pelecorhynchidae	Glutops	Dolichopodidae	Argyra
Asyndetus	Campsicnemus	Dolichopus	Hercostomus	Hydrophorus
Hypocharassus	Liancalus	Plastoneurus	Sympycnus	Tachytrechus
Telmatargus	Thinophilus	Empididae	Chelifera	Chelipoda
Clinocera	Dolichocephala	Hemerodromia	Metachela	Neoplasta
Oreothalia	Proclinopyga	Rhamphomyia	Roederiodes	Stilpon
Trichoclinocera	Oreogeton	Stratiomyidae	Caloparyphus	Euparyphus
Hedriodiscus	Labostigmina	Nemotelus	Odontomyia	Oxycera
Sargus	Stratiomys	Tabanidae	Atylotus	Chrysops

Haematopota	Hybomitra	Merycomyia	Tabanus	Diachlorus
Ephyridae	Leptopsilopa	Psilopa	Rhysophora	Muscidae
Caricea	Limnophora	Lispe	Lispoides	Phaonia
Spilogona	Phoridae	Dohrniphora	Megaselia	Scathophagidae
Acanthocnema	Cordilura	Hydromyza	Orthacheta	Spaziphora
Syrphidae	Blera	Callicera	Ceriana	Chalcosyrphus
Chrysogaster	Eristalinus	Helophilus	Mallota	Myolepta
Neosasia	Sericomyia	Spilomyia	Tipulidae	Brachypremna
Leptotarsus	Prionocera	Tipula	Phalacrocer	Triogma
Antocha	Arctoconopa	Cryptolabis	Dactylolabis	Dicranota
Elliptera	Gonomyia	Helius	Hexatoma	Limnophila
Limonia	Molophilus	Ormosia	Paradelphomyia	Pedicia
Pilaria	Pseudolimnophila	Rhabdomastix	Ulomorpha	Erioptera
Lipsothrix	Culicidae	Aedes	Anopheles	Culex
Culiseta	Mansonia	Orthopodomyia	Psorophora	Toxorhynchites
Uranotaenia	Wyeomyia	Simuliidae	Cnephia	Ectemnia
Greniera	Prosimulium	Simulium	Stegopterna	Twinnia
Chironomidae	Tanypodinae	Clinotanypus	Coelotanypus	Alotanypus
Apsectrotanypus	Brundiniella	Psectrotanypus	Djalmabatista	Procladius
Natarsia	Ablabesmyia	Cantopelopia	Conchapelopia	Guttipelopia
Hayesomyia	Helopelopia	Hudsonimyia	Labrundinia	Larsia
Meropelopia	Monopelopia	Nilotanypus	Paramerina	Pentaneura
Rheopelopia	Thienemannimyia	Trissopelopia	Zavrelimyia	Tanypus
Boreochlus	Trichotanypus	Parochlus	Boreoheptagya	Diamesa
Potthastia	Pseudodiamesa	Sympotthastia	Syndiamesa	Protanypus
Monodiamesa	Odontomesa	Prodiamesa	Orthoclaadiinae	Clunio
Corynoneura	Thienemanniella	Antillocladius	Brillia	Bryophaenocladus
Cardiocladius	Chaetocladius	Cricotopus	Diplocladius	Doithrix
Epoicocladius	Eukiefferiella	Georthocladus	Gymnometriocnemus	Heleniella
Heterotanytarsus	Heterotrioccladius	Hydrobaenus	Krenosmittia	Limnophyes
Lopescladius	Mesosmittia	Metriocnemus	Nanocladus	Orthocladus
Parachaetocladius	Paracricotopus	Parakiefferiella	Parametriocnemus	Paraphaenocladus
Parasmittia	Paratrioccladius	Paratrioccladius	Pludsonia	Psectrocladius
Pseudorthocladus	Pseudosmittia	Psilometriocnemus	Rheocricotopus	Rheosmittia
Smittia	Stilocladius	Symbiocladus	Synorthocladus	Tokunagaia
Trichochilus	Tvetenia	Unniella	Xylotopus	Chironominae
Chironomini	Acalcarella	Apedilum	Axarus	Chernovskia
Chironomus	Cladopelma	Cryptochironomus	Cryptotendipes	Cyphomella
Demijerea	Demicryptochironomus	Dicrotendipes	Einfeldia	Endochironomus
Glyptotendipes	Goeldichironomus	Harnischia	Kiefferulus	Lauterborniella
Microtendipes	Microchironomus	Nilothauma	Omisus	Pagastiella
Parachironomus	Paracladopelma	Paralauterborniella	Paratendipes	Phaenopsectra
Polypedilum	Robackia	Saetheria	Sergentia	Stelechomyia
Stenochironomus	Stictochironomus	Tribelos	Xenochironomus	Zavreliella
Pseudochironomus	Tanytarsini	Cladotanytarsus	Constempellina	Micropsectra
Neozavrelia	Parapsectra	Paratanytarsus	Rheotanytarsus	Stempellina
Sublettea	Tanytarsus	Zavrelia	Stempellinella	Sciomyzidae
Demosongea	Haploscleriana	Spongillidae	Anheteromeyenia	Corvospongilla
Dosilia	Ephydatia	Eunapius	Heteromeyenia	Radiospongilla
Spongilla	Trochospongilla	Hydrozoa	Hydroida	Hydridae
Hydra	Cavidae	Cordylophora	Trachylina	Petasidae
Craspedacusta	Turbellaria	Tricladida	Planariidae	Cura
Dugesia	Phagocata	Planaria	Dendrocoelidae	Procotyla
Catenulida	Stenostomidae	Stenostomum	Mastrostomida	Macrostomidae
Macrostomum	Microstomidae	Microstomum	Dalyellioida	Dalyelliidae
Castrella	Typhloplanidae	Bothromesostoma	Gytraticidae	Gytratrix
Plagiostomidae	Hydrolimax	Nemertea	Hoplonemertea	Hoplonemertea
Prostomidae	Prostoma	Nematoda	Adenophorea	Araeolaimida
Leptolaimidae	Rhabdolaimus	Monhysterida	Monhysteridae	Prismatolaimus
Cyatholaimidae	Achromadora	Ethmolaimus	Enoplida	Tripylidae
Tripyla	Ironidae	Ironus	Dorylaimida	Dorylaimidae
Actinolaimus	Dorylaimus	Mesodorylaimus	Secernentea	Aphelenchida
Aphelenchoididae	Aphelenchoides	Rhabditida	Diplogasteridae	Rhabditolaimus
Gastropoda	Mesogastropoda	Valvatidae	Valvata	Viviparidae
Tulotoma	Viviparus	Cipangopaludina	Campeloma	Lioplax
Ampullaridae	Marisa	Pomacea	Bithyniidae	Bithynia
Micromelaniidae	Antroselates	Hydrobiidae	Aphaostraccon	Hoyia
Hyalopyrgus	Littoridinops	Probythinella	Pyrogophorus	Tryonia
Antrobia	Clappia	Cochliopina	Fluminicola	Gillia
Lepyrium	Somatogyrus	Birgella	Cincinnatia	Fontelicella

Marstonia	Notogillia	Orygocerus	Pyrgulopsis	Rhaphinema
Spilochlamys	Striobia	Amnicola	Hauffenia	Horatia
Fontigens	Pyrgophorus	Pomatiopsidae	Pomatiopsis	Thiaridae
Melanoides	Thiara	Pleuroceridae	Elimia	Gyrotoma
Io	Juga	Leptoxis	Lithasia	Pleurocera
Basommatophora	Acroloxidae	Acroloxus	Lymnaeidae	Acella
Bulimnea	Fossaria	Lymnaea	Pseudosuccinea	Radix
Stagnicola	Hinkleyia	Fisherola	Lanx	Physidae
Physa	Physella	Aplexa	Stenophysa	Planorbidae
Gyraulus	Drepanotrema	Biomphalaria	Helisoma	Menetus
Planorbella	Planorbula	Promenetus	Vorticifex	Amphigyra
Neoplanorbis	Ancylidae	Rhodacmea	Ferrissia	Hebetancylus
Laevapex	Bivalvia	Unionoida	Margaritiferidae	Margaritifera
Unionidae	Actinonaias	Alasmidonta	Amblema	Anodonta
Anodontoides	Carunculina	Cyclonaias	Dynomia	Elliptio
Fusconaia	Lampsilis	Lasmigona	Leptodea	Ligumia
Obovaria	Pleurobema	Proptera	Ptychobranthus	Quadrula
Simpsoniconcha	Strophitus	Truncilla	Utterbackia	Villosa
Tritogonia	Pyganodon	Simpsonaias	Obliquaria	Plethobasus
Megalonaias	Ellipsaria	Arcidens	Epioblasma	Veneroida
Sphaeriidae	Pisidium	Musculium	Sphaerium	Corbiculidae
Corbicula	Dreissenidae	Dreissena	Mytilopsis	Hirudinea
Arhynchobdellid	Haemopidae	Haemopsis	Hirudinidae	Macrobodella
Erpobdellidae	Erpobdella	Mooreobdella	Nephelopsis	Rhynchobdellida
Glossiphoniidae	Actinobdella	Alboglossiphonia	Batracobdella	Gloiodbella
Glossiphonia	Helobdella	Marvinmeyeria	Placobdella	Theromyzon
Piscicolidae	Cystobranthus	Myzobdella	Piscicola	Piscicolaria
Oligochaeta	Haplotaxida	Haplotaxidae	Haplotaxis	Lumbricidae
Enchytraeidae	Lumbriculida	Lumbriculidae	Eclipidrilus	Lumbriculus
Stylodrilus	Tubificida	Naididae	Allonais	Amphichaeta
Arcteonais	Bratislavia	Chaetogaster	Dero	Haemonais
Nais	Ophidonais	Paranais	Piguetiella	Pristina
Ripistes	Slavina	Specaria	Stephensoniana	Stylaria
Uncinaias	Vejdovskya	Tubificidae	Aulodrilus	Bothrioneurum
Branchiura	Haber	Hyodrilus	Isochaetides	Limnodrilus
Phalodrilus	Potamotheix	Psammoryctides	Quistadrilus	Rhyacodrilus
Spirosperma	Tasserkidrilus	Tubifex	Branchiobdellida	Branchiobdellidae
Polychaeta	Sabellida	Sabellidae	Manayunkia	Crustacea
Amphipoda	Crangonyctidae	Crangonyx	Stygonectes	Gammaridae
Gammarus	Haustoriidae	Monoporeia	Pontoporeiidae	Talitridae
Hyalella	Decapoda	Cambaridae	Cambarus	Fallicambarus
Orconectes	Procambarus	Isopoda	Asellidae	Caecidotea
Lirceus	Ostracoda	Cladocera	Bryozoa	Hydracarina
Nematomorpha				

**Pennsylvania's Water Dependent  
Frogs, Toads, & Salamanders - Table 2**

Jefferson Salamander	Spotted Salamander	Marbled Salamander
Tiger Salamander	Hellbender	Mountain Dusky Salamander
Dusky Salamander	Seal Salamander	Spring Salamander
Two-lined Salamander	Longtail Salamander	Mudpuppy
Four-toed Salamander	Red Salamander	Fowler's Toad
Mud Salamander	American Toad	Mountain Chorus Frog
Eastern Newt	Gray Treefrog	Spring Peeper
Northern Cricket Frog	New Jersey Chorus Frog	Green Frog
Striped Chorus Frog	Bullfrog	Wood Frog
Eastern Spadefoot	Northern Leopard Frog	Pickerel Frog
Coastal Plain Leopard Frog		

**Pennsylvania's Water Dependent  
Turtles and Snakes - Table 3**

Snapping Turtle	Northern Painted Turtle	Spotted Turtle
Blanding's Turtle	Wood Turtle	Bog Turtle
Map Turtle	Redbelly Turtle	Eastern Mud Turtle
Stinkpot	Smooth Softshell	Spiny Softshell
Coal Skink	Five-lined Skink	Broadhead Skink
Worm Snake	Kirtland's Snake	Northern Water Snake
Queen Snake		

**Fish Species Known to Occur in  
Pennsylvania Waters - Table 4**

Ohio Lamprey	N. Brook Lamprey	Mtn. Brook Lamprey	Silver Lamprey	Least Brook Lamprey
American Brook Lamprey	Sea Lamprey	Shortnose Sturgeon	Lake Sturgeon	Atlantic Sturgeon
Shovelnose Sturgeon	Paddlefish	Spotted Gar	Longnose Gar	Shortnose Gar
Bowfin	Goldeye	Mooneye	Lady Fish	American Eel
Blueback Herring	Skipjack Herring	Hickory Shad	Alewife	American Shad
Atlantic Menhaden	Gizzard Shad	Bay Anchovy	Central Stoneroller	Goldfish
Redside Dace	Rosyside Dace	Grass Carp	Satinfish Shiner	Spotfin Shiner
Common Carp	Silverjaw Minnow	Gravel Chub	Streamline Chub	Tonguetied Minnow
Cutlips Minnow	E. Silvery Minnow	Striped Shiner	Common Shiner	Redfin Shiner
Silver Chub	Pearl Dace	Hornyhead Chub	River Chub	Golden Shiner
Bigeye Chub	Comely Shiner	Popeye Shiner	Emerald Shiner	Bridle Shiner
River Shiner	Ghost Shiner	Ironcolor Shiner	Bigmouth Shiner	Blackchin Shiner
Blacknose Shiner	Spottail Shiner	Silver Shiner	Swallowtail Shiner	Rosyface Shiner
Sand Shiner	Mimic Shiner	N. Redbelly Dace	S. Redbelly Dace	Bluntnose Minnow
Fathead Minnow	Bullhead Minnow	Blacknose Dace	Longnose Dace	Rudd
Creek Chub	Fallfish	River Carpsucker	Quillback	Highfin Carpsucker
Longnose Sucker	White Sucker	Blue Sucker	Creek Chubsucker	Lake Chubsucker
N. Hog Sucker	Smallmouth Buffalo	Bigmouth Buffalo	Spotted Sucker	Silver Redhorse
River Redhorse	Black Redhorse	Golden Redhorse	Shorthead Redhorse	Ohio Shorthead Redhorse
Greater Redhorse	White Catfish	Blue Catfish	Black Bullhead	Yellow Bullhead
Brown Bullhead	Channel Catfish	Mountain Madtom	Stonecat	Tadpole Madtom
Margined Madtom	Brindled Madtom	N. Madtom	Flathead Catfish	Redfin Pickerel
Grass Pickerel	N. Pike	Tiger Muskellunge	Muskellunge	Chain Pickerel
Amur Pike	Central Mudminnow	Eastern Mudminnow	Rainbow Smelt	Longjaw Cisco
Lake Herring	Lake Whitefish	Pink Salmon	Coho Salmon	Rainbow Trout
Golden Rainbow Trout	Kokanee, Sockeye Salmon	Chinook Salmon	Atlantic Salmon	Brown Trout
Brook Trout	Lake Trout	Trout-Perch	Pirate Perch	Burbot
Silver Hake	Atlantic Tomcod	Pollock	Red Hake	Atlantic Needlefish
Sheepshead Minnow	Banded Killifish	Mummichog	Striped Killifish	Mosquitofish
Brook Silverside	Inland Silverside	Fourspine Stickleback	Brook Stickleback	Threespine Stickleback
Northern Pipefish	Mottled Sculpin	Blue Ridge Sculpin	Slimy Sculpin	Potomac Sculpin
Spoonhead Sculpin	Checkered Sculpin	Deepwater Sculpin	White Perch	White Bass
Striped Bass	Striped Bass Hybrid	Mud Sunfish	Rock Bass	Blackbanded Sunfish
Bluespotted Sunfish	Banded Sunfish	Redbreast Sunfish	Green Sunfish	Pumpkinseed
Warmouth	Orangespotted Sunfish	Bluegill	Longear Sunfish	Redear Sunfish
Smallmouth Bass	Spotted Bass	Largemouth Bass	White Crappie	Black Crappie
Greenside Darter	Rainbow Darter	Bluebreast Darter	Iowa Darter	Fantail Darter
Swamp Darter	Spotted Darter	Johnny Darter	Tessellated Darter	E. Sand Darter
Tippecanoe Darter	Variegated Darter	Banded Darter	Yellow Perch	Logperch
Channel Darter	Gilt Darter	Longhead Darter	Blackside Darter	Sharpnose Darter
Shield Darter	River Darter	Sauger	Saugeye	Walleye
Bluefish	Florida Pompano	Gray Snapper	Freshwater Drum	Silver Perch
Weakfish	Spot	Atlantic Croaker	Blue Tilapia	Striped Mullet
Naked Goby	Smallmouth Flounder	Summer Flounder	Windowpane	Winter Flounder
Hogchoker				

**Pennsylvania's Water-Dependent Vertebrate Species Listed As "Vulnerable" Or Worse Condition - Table 5**

Green Salamander	Banded Sunfish	Spotted Gar	Rough Green Snake
Cheat Minnow	Silver Chub	Redfin Shiner	Checkered Sculpin
New Jersey Chorus Frog	Threespine Stickleback	Southern Water Shrew	Shortnose Sturgeon
Spotted Sucker	Eastern Spadefoot	Southern Redbelly Dace	Longear Sunfish
Ironcolor Shiner	Gravel Chub	Black Bullhead	Ghost Shiner
Lake Sturgeon	Northern Brook Lamprey	Hornyhead Chub	Iowa Darter
Longnose Sucker	Blackchin Shiner	Atlantic Sturgeon	Coastal Plain Leopard Frog
Blanding's Turtle	Bridle Shiner	Broadhead Skink	Eastern Sand Darter
Mountain Madtom	Tadpole Madtom	Mud Salamander	River Carpsucker
Bog Turtle	Great Egret	Sedge Wren	Least Bittern
Channel Darter	Yellow-crowned Night-heron	American Bittern	Eastern Massasauga
Tippecanoe Darter	Gilt Darter	Green-winged Teal	Bluebreast Darter
Bigmouth Shiner	Northern Madtom	Redbelly Turtle	Warmouth
Mooneye	Mountain Brook Lamprey	Brindled Madtom	Spotted Darter
Skipjack Herring	Goldeye	Bald Eagle	Osprey
Northern Goshawk	Bowfin	Ohio Lamprey	Longhead Darter
Longnose Gar	Smallmouth Buffalo	Marsh Wren	Black-crowned Night-heron
Streamline Chub	Central Mudminnow	Least Brook Lamprey	Eastern Mudminnow
Spotted Turtle	Water Shrew	American Brook Lamprey	Brook Stickleback
Pied-billed Grebe	Northern Leopard Frog	Northern River Otter	Coal Skink
Queen Snake	Virginia Rail	Common Moorhen	American Coot
Bullhead Minnow	Hellbender	River Redhorse	Wood Turtle
Smooth Softshell	Potomac Sculpin	Great Blue Heron	Eastern Mud Turtle
Blue Pike	Silver Lamprey	Cisco	Lake Whitefish
Pirate Perch	Mud Sunfish	Popeye Shiner	Northern Redbelly Dace
Tiger Salamander	Piping Plover	Paddlefish	Blacknose Shiner
	Blackbanded Sunfish		Swamp Darter