Appendix C
Species Codes for Aquatic Vertebrates

The following table contains the unique 8-character species code, the scientific name, and the common name assigned to each aquatic vertebrate species expected to be collected by EMAP sampling protocols in the Mid-Atlantic and Western regions. Generally, the species code is composed of the first four letters of the genus plus the first four letters of the species name. Modifications to this coding scheme were made in cases where two species could be assigned the same code. Species entries are arranged first by family (alphabetically), then by the assigned species code.

Aquatic Vertebrate Species List for Mid-Atlantic Region

Common Name	Genus	Species	Family	Family Name	VERTCODE
OHIO LAMPREY	Ichthyomyzon	bdellium	Petromyzontidae	Lamprey	ICHTBDEL
CHESTNUT LAMPREY	Ichthyomyzon	castaneus	Petromyzontidae	Lamprey	ICHTCAST
NORTHERN BROOK LAMPREY	Ichthyomyzon	fossor	Petromyzontidae	Lamprey	ICHTFOSS
MOUNTAIN BROOK LAMPREY	Ichthyomyzon	greeleyi	Petromyzontidae	Lamprey	ICHTGREE
SILVER LAMPREY	Ichthyomyzon	unicuspis	Petromyzontidae	Lamprey	ICHTUNIC
LEAST BROOK LAMPREY	Lampetra	aepyptera	Petromyzontidae	Lamprey	LAMPAEPY
AMERICAN BROOK LAMPREY	Lampetra	appendix	Petromyzontidae	Lamprey	LAMPAPPE
SEA LAMPREY	Petromyzon	marinus	Petromyzontidae	Lamprey	PETRMARI
UNKNOWN LAMPREY	Lampetra		Petromyzontidae	Lamprey	LAMPZZZZ
SHORTNOSE STURGEON	Acipenser	brevirostrum	Acipenseridae	Sturgeon	ACIPBREV
LAKE STURGEON	Acipenser	fulvescens	Acipenseridae	Sturgeon	ACIPFULV
ATLANTIC STURGEON	Acipenser	oxyrhynchus	Acipenseridae	Sturgeon	ACIPOXYR
SHOVELNOSE STURGEON	Scaphirhynchus	platorynchus	Acipenseridae	Sturgeon	SCAPPLAT
PADDLEFISH	Polyodon	spathula	Polyodontidae	Paddlefish	POLYSPAT
SPOTTED GAR	Lepisosteus	oculatus	Lepisosteidae	Gar	LEPIOCUL
LONGNOSE GAR	Lepisosteus	osseus	Lepisosteidae	Gar	LEPIOSSE
SHORTNOSE GAR	Lepisosteus	platostomus	Lepisosteidae	Gar	LEPIPLAT
BOWFIN	Amia	calva	Amiidae	Bowfin	AMIACALV
AMERICAN EEL	Anguilla	rostrata	Anguillidae	Eel	ANGUROST
BLUEBACK HERRING	Alosa	aestivalis	Clupeidae	Herring	ALOSAEST

Common Name	Genus	Species	Family	Family Name	VERTCODE
SKIPJACK HERRING	Alosa	chrysochloris	Clupeidae	Herring	ALOSCHRY
HICKORY SHAD	Alosa	mediocris	Clupeidae	Herring	ALOSMEDI
ALEWIFE	Alosa	pseudoharengus	Clupeidae	Herring	ALOSPSEU
AMERICAN SHAD	Alosa	sapidissima	Clupeidae	Herring	ALOSSAPI
GIZZARD SHAD	Dorosoma	cepedianum	Clupeidae	Herring	DOROCEPE
THREADFIN SHAD	Dorosoma	petenense	Clupeidae	Herring	DOROPETE
GOLDEYE	Hiodon	alosoides	Hiodontidae	Mooneye	HIODALOS
MOONEYE	Hiodon	tergisus	Hiodontidae	Mooneye	HIODTERG
REDFIN/GRASS PICKEREL	Esox	americanus	Esocidae	Pike	ESOXAMER
NORTHERN PIKE	Esox	lucius	Esocidae	Pike	ESOXLUCI
TIGER MUSKELLUNGE	Esox	lucius x masq.	Esocidae	Pike	ESOXLUMA
MUSKELLUNGE	Esox	masquinongy	Esocidae	Pike	ESOXMASQ
CHAIN PICKEREL	Esox	niger	Esocidae	Pike	ESOXNIGE
UNKNOWN TROUT	Oncorhynchus	sp.	Salmonidae	Salmon	ONCOZZZZ
HYBRID TROUT	Oncorhynchus	sp.	Salmonidae	Salmon	ONCOHHHH
ATLANTIC SALMON	Salmo	salar	Salmonidae	Trout	SALMSALA
BROWN TROUT	Salmo	trutta	Salmonidae	Trout	SALMTRUT
BROOK TROUT	Salvelinus	fontinalis	Salmonidae	Trout	SALVFONT
LAKE TROUT	Salvelinus	namaycush	Salmonidae	Trout	SALVNAMA
YOUNG OF YEAR TROUT	SP.	SP.	Salmonidae	Salmon	SALMYYYY
UNKNOWN SALMONID			Salmonidae	Trout	SALMZZZZ

Common Name	Genus	Species	Family	Family Name	VERTCODE
UNKNOWN CHAR	Salvelinus	sp.	Salmonidae	Salmon	SALVZZZZ
CENTRAL MUDMINNOW	Umbra	limi	Umbridae	Mudminnow	UMBRLIMI
EASTERN MUDMINNOW	Umbra	pygmaea	Umbridae	Mudminnow	UMBRPYGM
RIVER CARPSUCKER	Carpiodes	carpio	Catostomidae	Sucker	CARPCARP
QUILLBACK	Carpiodes	cyprinus	Catostomidae	Sucker	CARPCYPR
HIGHFIN CARPSUCKER	Carpiodes	velifer	Catostomidae	Sucker	CARPVELI
LONGNOSE SUCKER	Catostomus	catostomus	Catostomidae	Sucker	CATOCATO
WHITE SUCKER	Catostomus	commersoni	Catostomidae	Sucker	CATOCOMM
BLUE SUCKER	Cycleptus	elongatus	Catostomidae	Sucker	CYCLELON
CREEK CHUBSUCKER	Erimyzon	oblongus	Catostomidae	Sucker	ERIMOBLO
LAKE CHUBSUCKER	Erimyzon	sucetta	Catostomidae	Sucker	ERIMSUCE
NORTHERN HOGSUCKER	Hypentelium	nigricans	Catostomidae	Sucker	HYPENIGR
ROANOKE HOGSUCKER	Hypentelium	roanokense	Catostomidae	Sucker	HYPEROAN
SMALLMOUTH BUFFALO	Ictiobus	bubalus	Catostomidae	Sucker	ICTIBUBA
BIGMOUTH BUFFALO	Ictiobus	cyprinellus	Catostomidae	Sucker	ICTICYPR
BLACK BUFFALO	Ictiobus	niger	Catostomidae	Sucker	ICTINIGE
SPOTTED SUCKER	Minytrema	melanops	Catostomidae	Sucker	MINYMELA
SILVER REDHORSE	Moxostoma	anisurum	Catostomidae	Sucker	MOXOANIS
BIGEYE JUMPROCK	Moxostoma	ariommum	Catostomidae	Sucker	MOXOARIO
RIVER REDHORSE	Moxostoma	carinatum	Catostomidae	Sucker	MOXOCARI
BLACK JUMPROCK	Moxostoma	cervinum	Catostomidae	Sucker	MOXOCERV

Common Name	Genus	Species	Family	Family Name	VERTCODE
BLACK REDHORSE	Moxostoma	duquesnei	Catostomidae	Sucker	MOXODUQU
GOLDEN REDHORSE	Moxostoma	erythrurum	Catostomidae	Sucker	MOXOERYT
RUSTYSIDE SUCKER	Moxostoma	hamiltoni	Catostomidae	Sucker	MOXOHAMI
SHORTHEAD REDHORSE	Moxostoma	macrolepidotum	Catostomidae	Sucker	MOXOMACR
V-LIP REDHORSE	Moxostoma	pappillosum	Catostomidae	Sucker	MOXOPAPP
TORRENT SUCKER	Moxostoma	rhothoecum	Catostomidae	Sucker	MOXORHOT
SMALLFIN SUCKER	Moxostoma	robustum	Catostomidae	Sucker	MOXOROBU
GREATER REDHORSE	Moxostoma	valenciennesi	Catostomidae	Sucker	MOXOVALE
HYBRID SUCKER	Catostomus	sp.	Catostomidae	Sucker	CATOHHHH
UNKNOWN CATOSTOMID			Catostomidae	Sucker	CATOZZZZ
STONEROLLER	Campostoma	anomalum	Cyprinidae	Minnow	CAMPANOM
REDSIDE DACE	Clinostomus	elongatus	Cyprinidae	Minnow	CLINELON
ROSYSIDE DACE	Clinostomus	funduloides	Cyprinidae	Minnow	CLINFUND
LAKE CHUB	Couesius	plumbeus	Cyprinidae	Minnow	COUEPLUM
SATINFIN SHINER	Cyprinella	analostana	Cyprinidae	Minnow	CYPRANAL
BLUNTFACE SHINER	Cyprinella	camura	Cyprinidae	Minnow	CYPRCAMU
WHITETAIL SHINER	Cyprinella	galactura	Cyprinidae	Minnow	CYPRGALA
RED SHINER	Cyprinella	lutrensis	Cyprinidae	Minnow	CYPRLUTR
SPOTFIN CHUB	Cyprinella	monacha	Cyprinidae	Minnow	CYPRMONA
WHITEFIN SHINER	Cyprinella	nivea	Cyprinidae	Minnow	CYPRNIVE
SPOTFIN SHINER	Cyprinella	spiloptera	Cyprinidae	Minnow	CYPRSPIL

Common Name	Genus	Species	Family	Family Name	VERTCODE
BLACKTAIL SHINER	Cyprinella	venustus	Cyprinidae	Minnow	CYPRVENU
STEELCOLOR SHINER	Cyprinella	whipplei	Cyprinidae	Minnow	CYPRWHIP
SLENDER CHUB	Erimystax	cahni	Cyprinidae	Minnow	ERIMCAHN
STREAMLINE CHUB	Erimystax	dissimilis	Cyprinidae	Minnow	ERIMDISS
BLOTCHED CHUB	Erimystax	insignis	Cyprinidae	Minnow	ERIMINSI
GRAVEL CHUB	Erimystax	x-punctatus	Cyprinidae	Minnow	ERIMX-PU
TONGUETIED MINNOW	Exoglossum	laurae	Cyprinidae	Minnow	EXOGLAUR
CUTLIPS MINNOW	Exoglossum	maxillingua	Cyprinidae	Minnow	EXOGMAXI
EASTERN SILVERY MINNOW	Hybognathus	regius	Cyprinidae	Minnow	HYBOREGI
WHITE SHINER	Luxilus	albeolus	Cyprinidae	Minnow	LUXIALBE
CRESCENT SHINER	Luxilus	cerasinus	Cyprinidae	Minnow	LUXICERA
STRIPED SHINER	Luxilus	chrysocephalus	Cyprinidae	Minnow	LUXICHRY
WARPAINT SHINER	Luxilus	coccogenis	Cyprinidae	Minnow	LUXICOCC
COMMON SHINER	Luxilus	cornutus	Cyprinidae	Minnow	LUXICORN
ROSEFIN SHINER	Lythrurus	ardens	Cyprinidae	Minnow	LYTHARDE
MOUNTAIN SHINER	Lythrurus	lirus	Cyprinidae	Minnow	LYTHLIRU
PINEWOODS SHINER	Lythrurus	matutinus	Cyprinidae	Minnow	LYTHMATU
REDFIN SHINER	Lythrurus	umbratilis	Cyprinidae	Minnow	LYTHUMBR
SPECKLED CHUB	Macrhybopsis	aestivalis	Cyprinidae	Minnow	MACRAEST
SILVER CHUB	Macrhybopsis	storeriana	Cyprinidae	Minnow	MACRSTOR
PEARL DACE	Margariscus	margarita	Cyprinidae	Minnow	MARGMARG

Common Name	Genus	Species	Family	Family Name	VERTCODE
BLUEHEAD CHUB	Nocomis	leptocephalus	Cyprinidae	Minnow	NOCOLEPT
RIVER CHUB	Nocomis	micropogon	Cyprinidae	Minnow	NOCOMICR
BIGMOUTH CHUB	Nocomis	platyrhynchus	Cyprinidae	Minnow	NOCOPLAT
BULL CHUB	Nocomis	raneyi	Cyprinidae	Minnow	NOCORANE
GOLDEN SHINER	Notemigonus	crysoleucas	Cyprinidae	Minnow	NOTECRYS
WHITEMOUTH SHINER	Notropis	alborus	Cyprinidae	Minnow	NOTRALBO
BIGEYE CHUB	Notropis	amblops	Cyprinidae	Minnow	NOTRAMBL
COMELY SHINER	Notropis	amoenis	Cyprinidae	Minnow	NOTRAMOE
PUGNOSE SHINER	Notropis	anogenus	Cyprinidae	Minnow	NOTRANOG
POPEYE SHINER	Notropis	ariommus	Cyprinidae	Minnow	NOTRARIO
EMERALD SHINER	Notropis	atherinoides	Cyprinidae	Minnow	NOTRATHE
BRIDLE SHINER	Notropis	bifrenatus	Cyprinidae	Minnow	NOTRBIFR
RIVER SHINER	Notropis	blennius	Cyprinidae	Minnow	NOTRBLEN
BIGEYE SHINER	Notropis	boops	Cyprinidae	Minnow	NOTRBOOP
SILVERJAW MINNOW	Notropis	buccatus	Cyprinidae	Minnow	NOTRBUCC
GHOST SHINER	Notropis	buchanani	Cyprinidae	Minnow	NOTRBUCH
IRONCOLOR SHINER	Notropis	chalybaeus	Cyprinidae	Minnow	NOTRCHAL
REDLIP SHINER	Notropis	chiliticus	Cyprinidae	Minnow	NOTRCHIL
DUSKY SHINER	Notropis	cummingsae	Cyprinidae	Minnow	NOTRCUMM
BIGMOUTH SHINER	Notropis	dorsalis	Cyprinidae	Minnow	NOTRDORS
WEDGESPOT SHINER	Notropis	greenei	Cyprinidae	Minnow	NOTRGREE

Common Name	Genus	Species	Family	Family Name	VERTCODE
BLACKCHIN SHINER	Notropis	heterodon	Cyprinidae	Minnow	NOTRHETE
BLACKNOSE SHINER	Notropis	heterolepis	Cyprinidae	Minnow	NOTRHETL
SPOTTAIL SHINER	Notropis	hudsonius	Cyprinidae	Minnow	NOTRHUDS
TENNESSEE SHINER	Notropis	leuciodus	Cyprinidae	Minnow	NOTRLEUC
SILVER SHINER	Notropis	photogenis	Cyprinidae	Minnow	NOTRPHOT
SWALLOWTAIL SHINER	Notropis	procne	Cyprinidae	Minnow	NOTRPROC
ROSYFACE SHINER	Notropis	rubellus	Cyprinidae	Minnow	NOTRRUBE
SAFFRON SHINER	Notropis	rubricroceus	Cyprinidae	Minnow	NOTRRUBR
SABINE SHINER	Notropis	sabinae	Cyprinidae	Minnow	NOTRSABI
NEW RIVER SHINER	Notropis	scabriceps	Cyprinidae	Minnow	NOTRSCAB
ROUGHHEAD SHINER	Notropis	semperasper	Cyprinidae	Minnow	NOTRSEMP
MIRROR SHINER	Notropis	spectrunculus	Cyprinidae	Minnow	NOTRSPEC
SAND SHINER	Notropis	stramineus	Cyprinidae	Minnow	NOTRSTRA
TELESCOPE SHINER	Notropis	telescopus	Cyprinidae	Minnow	NOTRTELE
MIMIC SHINER	Notropis	volucellus	Cyprinidae	Minnow	NOTRVOLU
PUGNOSE MINNOW	Opsopoeodus	emiliae	Cyprinidae	Minnow	OPSOEMIL
FATLIPS MINNOW	Phenacobius	crassilabrum	Cyprinidae	Minnow	PHENCRAS
SUCKERMOUTH MINNOW	Phenacobius	mirabilis	Cyprinidae	Minnow	PHENMIRA
KANAWHA MINNOW	Phenacobius	teretulus	Cyprinidae	Minnow	PHENTERE
STARGAZING MINNOW	Phenacobius	uranops	Cyprinidae	Minnow	PHENURAN
BLACKSIDE DACE	Phoxinus	cumberlandensis	Cyprinidae	Minnow	PHOXCUMB

Common Name	Genus	Species	Family	Family Name	VERTCODE
NORTHERN REDBELLY DACE	Phoxinus	eos	Cyprinidae	Minnow	PHOXEOS
SOUTHERN REDBELLY DACE	Phoxinus	erythrogaster	Cyprinidae	Minnow	PHOXERYT
MOUNTAIN REDBELLY DACE	Phoxinus	oreas	Cyprinidae	Minnow	PHOXOREA
TENNESSEE DACE	Phoxinus	tennesseensis	Cyprinidae	Minnow	PHOXTENN
BLUNTNOSE MINNOW	Pimephales	notatus	Cyprinidae	Minnow	PIMENOTA
FATHEAD MINNOW	Pimephales	promelas	Cyprinidae	Minnow	PIMEPROM
BULLHEAD MINNOW	Pimephales	vigilax	Cyprinidae	Minnow	PIMEVIGI
BLACKNOSE DACE	Rhinichthys	atratulus	Cyprinidae	Minnow	RHINATRA
CHEAT MINNOW	Rhinichthys	bowersi	Cyprinidae	Minnow	RHINBOWE
LONGNOSE DACE	Rhinichthys	cataractae	Cyprinidae	Minnow	RHINCATA
CREEK CHUB	Semotilus	atromaculatus	Cyprinidae	Minnow	SEMOATRO
FALLFISH	Semotilus	corporalis	Cyprinidae	Minnow	SEMOCORP
UNKNOWN CYPRINID			Cyprinidae	Minnow	CYPRZZZZ
SNAIL BULLHEAD	Ameiurus	brunneus	Ictaluridae	Catfish	AMEIBRUN
WHITE CATFISH	Ameiurus	catus	Ictaluridae	Catfish	AMEICATU
BLACK BULLHEAD	Ameiurus	melas	Ictaluridae	Catfish	AMEIMELA
YELLOW BULLHEAD	Ameiurus	natalis	Ictaluridae	Catfish	AMEINATA
BROWN BULLHEAD	Ameiurus	nebulosus	Ictaluridae	Catfish	AMEINEBU
FLAT BULLHEAD	Ameiurus	platycephalus	Ictaluridae	Catfish	AMEIPLAT
BLUE CATFISH	Ictalurus	furcatus	Ictaluridae	Catfish	ICTAFURC
CHANNEL CATFISH	Ictalurus	punctatus	Ictaluridae	Catfish	ICTAPUNC

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FLATHEAD CATFISH	Pylodictis	olivaris	Ictaluridae	Catfish	PYLOOLIV
MOUNTAIN MADTOM	Noturus	eleutherus	Ictaluridae	Catfish	NOTUELEU
YELLOWFIN MADTOM	Noturus	flavipinnis	Ictaluridae	Catfish	NOTUFLAV
STONECAT	Noturus	flavus	Ictaluridae	Catfish	NOTUFLAU
CAROLINA MADTOM	Noturus	furiosus	Ictaluridae	Catfish	NOTUFURI
ORANGEFIN MADTOM	Noturus	gilberti	Ictaluridae	Catfish	NOTUGILB
TADPOLE MADTOM	Noturus	gyrinus	Ictaluridae	Catfish	NOTUGYRI
MARGINED MADTOM	Noturus	insignis	Ictaluridae	Catfish	NOTUINSI
BRINDLED MADTOM	Noturus	miurus	Ictaluridae	Catfish	NOTUMIUR
NORTHERN MADTOM	Noturus	stigmosus	Ictaluridae	Catfish	NOTUSTIG
TROUT-PERCH	Percopsis	omiscomaycus	Percopsidae	Trout-perch	PERCOMIS
PIRATE PERCH	Aphredoderus	sayanus	Aphredoderidae	Pirate perch	APHRSAYA
BURBOT	Lota	lota	Gadidae	Codfish	LOTALOTA
NORTHERN STUDFISH	Fundulus	catenatus	Cyprinodontidae	Killifish	FUNDCATE
BANDED KILLIFISH	Fundulus	diaphanus	Cyprinodontidae	Killifish	FUNDDIAP
MUMMICHOG	Fundulus	heteroclitus	Cyprinodontidae	Killifish	FUNDHETE
LINED TOPMINNOW	Fundulus	lineolatus	Cyprinodontidae	Killifish	FUNDLINE
SPECKLED KILLIFISH	Fundulus	rathbuni	Cyprinodontidae	Killifish	FUNDRATH
RAINWATER KILLIFISH	Lucania	parva	Cyprinodontidae	Killifish	LUCAPARV
EASTERN MOSQUITOFISH	Gambusia	holbrooki	Poeciliidae	Livebearer	GAMBHOLB
GUPPY	Poecilia	reticulata	Poeciliidae	Livebearer	POECRETI

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BROOK SILVERSIDE	Labidesthes	sicculus	Atherinidae	Silverside	LABISICC
INLAND SILVERSIDE	Menidia	beryllina	Atherinidae	Silverside	MENIBERY
FOURSPINE STICKLEBACK	Apeltes	quadracus	Gasterosteidae	Stickleback	APELQUAD
BROOK STICKLEBACK	Culaea	inconstans	Gasterosteidae	Stickleback	CULAINCO
THREESPINE STICKLEBACK	Gasterosteus	aculeatus	Gasterosteidae	Stickleback	GASTACUL
NINESPINE STICKLEBACK	Pungitius	pungitius	Gasterosteidae	Stickleback	PUNGPUNG
BLACK SCULPIN	Cottus	baileyi	Cottidae	Sculpin	COTTBAIL
MOTTLED SCULPIN	Cottus	bairdi	Cottidae	Sculpin	COTTBAIR
BANDED SCULPIN	Cottus	carolinae	Cottidae	Sculpin	COTTCARO
SLIMY SCULPIN	Cottus	cognatus	Cottidae	Sculpin	COTTCOGN
SHORTHEAD SCULPIN	Cottus	confusus	Cottidae	Sculpin	COTTCONF
SPOONHEAD SCULPIN	Cottus	ricei	Cottidae	Sculpin	COTTRICE
POTOMAC SCULPIN	Cottus	girardi	Cottidae	Sculpin	COTTGIRA
UNKNOWN COTTID	Cottus		Cottidae	Sculpin	COTTZZZZ
WHITE PERCH	Morone	americana	Percichthyidae	Temperate Bass	MOROAMER
WHITE BASS	Morone	chrysops	Percichthyidae	Temperate Bass	MOROCHRY
STRIPED BASS	Morone	saxatilis	Percichthyidae	Temperate Bass	MOROSAXA
MUD SUNFISH	Acantharchus	pomotis	Centrarchidae	Sunfish	ACANPOMO
ROANOKE ROCKBASS	Ambloplites	cavifrons	Centrarchidae	Sunfish	AMBLCAVI
ROCK BASS	Ambloplites	rupestris	Centrarchidae	Sunfish	AMBLRUPE
FLIER	Centrarchus	macropterus	Centrarchidae	Sunfish	CENTMACR

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BANDED PYGMY SUNFISH	Elassoma	zonatum	Centrarchidae	Sunfish	ELASZONA
BLACKBANDED SUNFISH	Enneacanthus	chaetodon	Centrarchidae	Sunfish	ENNECHAE
BLUESPOTTED SUNFISH	Enneacanthus	gloriosus	Centrarchidae	Sunfish	ENNEGLOR
BANDED SUNFISH	Enneacanthus	obesus	Centrarchidae	Sunfish	ENNEOBES
REDBREAST SUNFISH	Lepomis	auritus	Centrarchidae	Sunfish	LEPOAURI
GREEN SUNFISH	Lepomis	cyanellus	Centrarchidae	Sunfish	LEPOCYAN
PUMPKINSEED	Lepomis	gibbosus	Centrarchidae	Sunfish	LEPOGIBB
WARMOUTH	Lepomis	gulosus	Centrarchidae	Sunfish	LEPOGULO
BLUEGILL	Lepomis	macrochirus	Centrarchidae	Sunfish	LEPOMACR
DOLLAR SUNFISH	Lepomis	marginatus	Centrarchidae	Sunfish	LEPOMARG
LONGEAR SUNFISH	Lepomis	megalotis	Centrarchidae	Sunfish	LEPOMEGA
REDEAR SUNFISH	Lepomis	microlophus	Centrarchidae	Sunfish	LEPOMICR
SPOTTED SUNFISH	Lepomis	punctatus	Centrarchidae	Sunfish	LEPOPUNC
SMALLMOUTH BASS	Micropterus	dolomieu	Centrarchidae	Sunfish	MICRDOLO
SPOTTED BASS	Micropterus	punctulatus	Centrarchidae	Sunfish	MICRPUNC
LARGEMOUTH BASS	Micropterus	salmoides	Centrarchidae	Sunfish	MICRSALM
WHITE CRAPPIE	Pomoxis	annularis	Centrarchidae	Sunfish	POMOANNU
BLACK CRAPPIE	Pomoxis	nigromaculatus	Centrarchidae	Sunfish	POMONIGR
UNKNOWN CENTRARCHID			Centrarchidae	Sunfish	CENTZZZZ
CRYSTAL DARTER	Ammocrypta	asprella	Percidae	Perch	AMMOASPR
EASTERN SAND DARTER	Ammocrypta	pellucida	Percidae	Perch	AMMOPELL

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SHARPHEAD DARTER	Etheostoma	acuticeps	Percidae	Perch	ETHEACUT
GREENSIDE DARTER	Etheostoma	blennioides	Percidae	Perch	ETHEBLEN
RAINBOW DARTER	Etheostoma	caeruleum	Percidae	Perch	ETHECAER
BLUEBREAST DARTER	Etheostoma	camurum	Percidae	Perch	ETHECAMU
GREENFIN DARTER	Etheostoma	chlorobranchium	Percidae	Perch	ETHECHLO
ASHY DARTER	Etheostoma	cinereum	Percidae	Perch	ETHECINE
FANTAIL DARTER	Etheostoma	flabellare	Percidae	Perch	ETHEFLAB
SWAMP DARTER	Etheostoma	fusiforme	Percidae	Perch	ETHEFUSI
BLUESIDE DARTER	Etheostoma	jessiae	Percidae	Perch	ETHEJESS
KANAWHA DARTER	Etheostoma	kanawhae	Percidae	Perch	ETHEKANA
STRIPETAIL DARTER	Etheostoma	kennecotti	Percidae	Perch	ETHEKENN
LONGFIN DARTER	Etheostoma	longimanum	Percidae	Perch	ETHELONG
SPOTTED DARTER	Etheostoma	maculatum	Percidae	Perch	ETHEMACU
JOHNNY DARTER	Etheostoma	nigrum	Percidae	Perch	ETHENIGR
TESSELATED DARTER	Etheostoma	olmstedi	Percidae	Perch	ETHEOLMS
CANDY DARTER	Etheostoma	osburni	Percidae	Perch	ETHEOSBU
DUSKYTAIL DARTER	Etheostoma	percnurum	Percidae	Perch	ETHEPERC
RIVERWEED DARTER	Etheostoma	podostemone	Percidae	Perch	ETHEPODO
REDLINE DARTER	Etheostoma	rufilineatum	Percidae	Perch	ETHERUFI
SAWCHEEK DARTER	Etheostoma	serrifer	Percidae	Perch	ETHESERR
SNUBNOSE DARTER	Etheostoma	simoterum	Percidae	Perch	ETHESIMO

Common Name	Genus	Species	Family	Family Name	VERTCODE
SPECKLED DARTER	Etheostoma	stigmaeum	Percidae	Perch	ETHESTIG
SWANNANOA DARTER	Etheostoma	swannanoa	Percidae	Perch	ETHESWAN
TIPPECANOE DARTER	Etheostoma	tippecanoe	Percidae	Perch	ETHETIPP
VARIEGATE DARTER	Etheostoma	variatum	Percidae	Perch	ETHEVARI
GLASSY DARTER	Etheostoma	vitreum	Percidae	Perch	ETHEVITR
WOUNDED DARTER	Etheostoma	vulneratum	Percidae	Perch	ETHEVULN
REDFIN DARTER	Etheostoma	whipplei	Percidae	Perch	ETHEWHIP
BANDED DARTER	Etheostoma	zonale	Percidae	Perch	ETHEZONA
TANGERINE DARTER	Percina	aurantiaca	Percidae	Perch	PERCAURA
BLOTCHSIDE LOGPERCH	Percina	burtoni	Percidae	Perch	PERCBURT
LOGPERCH	Percina	caprodes	Percidae	Perch	PERCCAPR
CHANNEL DARTER	Percina	copelandi	Percidae	Perch	PERCCOPE
PIEDMONT DARTER	Percina	crassa	Percidae	Perch	PERCCRAS
GILT DARTER	Percina	evides	Percidae	Perch	PERCEVID
APPALACHIA DARTER	Percina	gymnocephala	Percidae	Perch	PERCGYMN
LONGHEAD DARTER	Percina	macrocephala	Percidae	Perch	PERCMACR
BLACKSIDE DARTER	Percina	maculata	Percidae	Perch	PERCMACU
STRIPEBACK DARTER	Percina	notogramma	Percidae	Perch	PERCNOTO
SHARPNOSE DARTER	Percina	oxyrhynchus	Percidae	Perch	PERCOXYR
SHIELD DARTER	Percina	peltata	Percidae	Perch	PERCPELT
ROANOKE LOGPERCH	Percina	rex	Percidae	Perch	PERCREX

Common Name	Genus	Species	Family	Family Name	VERTCODE
ROANOKE DARTER	Percina	roanoka	Percidae	Perch	PERCROAN
DUSKY DARTER	Percina	sciera	Percidae	Perch	PERCSCIE
RIVER DARTER	Percina	shumardi	Percidae	Perch	PERCSHUM
SAUGER	Stizostedion	canadense	Percidae	Perch	STIZCANA
WALLEYE	Stizostedion	vitreum	Percidae	Perch	STIZVITR
YELLOW PERCH	Perca	flavescens	Percidae	Perch	PERCFLAV
FRESHWATER DRUM	Aplodinotus	grunniens	Sciaenidae	Drum	APLOGRUN
			Z_Hybrid		HYBR01
			Z_Unknown		UNKN09
EXOTIC/OTHER SPECIES					
TILAPIA	Tilapia	spp	Cichlidae	Cichlid	TILAZZZZ
ORIENTAL WEATHERFISH	Misgurnus	anguillicaudatus	Cobitidae	Loach	MISGANGU
GRASS CARP	Ctenopharyngodon	idella	Cyprinidae	Minnow	CTENIDEL
COMMON CARP	Cyprinus	carpio	Cyprinidae	Minnow	CYPRCARP
RUDD	Scardinius	erythrophthalmus	Cyprinidae	Minnow	SCARERYT
BITTERLING	Rhodeus	sericeus	Cyprinidae	Minnow	RHODSERI
IDE	Leuciscus	idus	Cyprinidae	Minnow	LEUCIDUS
GOLDFISH	Carassius	auratus	Cyprinidae	Minnow	CARAAURA
TENCH	Tinca	tinca	Cyprinidae	Minnow	TINCTINC
UNKNOWN AMPHIBIAN				AMPHZZZZ	
UNKNOWN FROG				Toad	FROGZZZZ

Common Name	Genus	Species	Family	Family Name	VERTCODE
UNKNOWN SALAMANDER				Salamander	SALAZZZZ
UNKNOWN TURTLE				TURTLEZZ	
UNKNOWN SNAKE					SNAKEZZZ
BEAVER	Castor	canadensis	Castoridae	Beaver	CASTCANA
MUSKRAT	Ondatra	zibethica	Cricetidae	Rodent	ONDAZIBE

Aquatic Vertebrates of the Western United States.

Code	Latin name	Common name (vouchering category)
LAMPAY	Lampetra ayresi	river lamprey 2
LAMPLE	Lampetra lethophaga	pit-klamath brook lamprey 2
LAMPRI	Lampetra richardsoni	western brook lamprey 2
LAMPTR	Lampetra tridentata	pacific lamprey 2; goose lake lamprey 3
LAMPSI	Lampetra similis	klamath river lamprey 2
LAMPZZ		unknown lamprey
COTTAL	Cottus aleuticus	coastrange sculpin 2
COTTAS	Cottus asper	prickly sculpin 2
COTTBA	Cottus bairdi	mottled sculpin 2; malheur motted sculpin 3
COTTBE	Cottus beldingi	paiute sculpin 2
COTTCF	Cottus confusus	shorthead sculpin 2
COTTGU	Cottus gulosus	riffle sculpin 2
COTTKL	Cottus klamathensis	marbled sculpin 2
COTTMA	Cottus marginatus	margined sculpin 3
COTTPE	Cottus perplexus	reticulate sculpin 2
COTTPI	Cottus pitensis	pit sculpin 3
COTTPR	Cottus princeps	klamath lake sculpin 2
COTTRH	Cottus rhotheus	torrent sculpin 2
COTTTE	Cottus tenuis	slender sculpin 3
LEPTAR	Leptocottus armatus	pacific staghorn sculpin 2
COTTZZ		unknown Cottid
ACIPME	Acipenser medirostris	green sturgeon 1
ACIPTR	Acipenser transmontanus	white sturgeon 1
ALOSSA	Alosa sapidissima	American shad 1
CLUPPA	Clupea pallasi	pacific herring 2
ONCOGO	Oncorhynchus gorbuscha	pink salmon 3
ONCOKE	Oncorhynchus keta	chum salmon 3
ONCOKI	Oncorhynchus kisutch	coho salmon 3
ONCONE	Oncorhynchus nerka	sockeye salmon 3

Code	Latin name	Common name (vouchering category)
ONCOTS	Oncorhynchus tshawytscha	chinook salmon 3
ONCOAG	Oncorhynchus aguabonita	golden trout 1
ONCOCL	Oncorhynchus clarki	cutthroat trout; Umpqua 3, Lahontan 3
ONCOMY	Oncorhynchus mykiss	rainbow trout 1
PROSWI	Prosopium williamsoni	mountain whitefish 1
SALMSA	Salmo salar	atlantic salmon 1
SALMTR	Salmo trutta	brown trout 1
SALVCO	Salvelinus confluentus	bull trout 3
SALVFO	Salvelinus fontinalis	brook trout 1
SALVNA	Salvelinus namaycush	lake trout 1
SALMZZ		unknown salmonid
HYPOPR	Hypomesus pretiosus	surf smelt 2
SPIRTH	Spirinchus thaleichthys	longfin smelt 2
THALPA	Thaleichthys pacificus	eulachon 2
ACROAL	Acrocheilus alutaceus	chiselmouth 1
CARAAU	Carassius auratus	goldfish 1
CTENID	Ctenopharyngodon idella	grass carp 1
CYPRCA	Cyprinus carpio	common carp 1
GILAAL	Gila alvordensis	alvord chub 3
GILABI	Gila bicolor	tui chub 1; Catlow, Hutton, Goose Lake, Oregon Lakes, Sheldon, Summer Basin and Warner 3
GILABO	Gila boraxobius	borax lake chub 3
GILACO	Gila coerulea	blue chub 2
LAVISY	Lavinia symmetricus	california roach 3
MYLOCA	Mylocheilus caurinus	peamouth 1
NOTECR	Notemigonus crysoleucas	golden shiner 2
PIMEPR	Pimephales promelas	fathead minnow 2
PTYCOR	Ptychocheilus oregonensis	northern squawfish 1
PTYCUM	Ptychocheilus umpquae	umpqua squawfish 1
RHINCA	Rhinichthys cataractae	longnose dace 2
RHINEV	Rhinichthys evermanni	umpqua dace 2

Code	Latin name	Common name (vouchering category)
RHINFA	Rhinichthys falcatus	leopard dace 2
RHINOS	Rhinichthys osculus	speckled dace 2; foskett speckled dace 3; millicoma dace 3
RICHBA	Richardsonius balteatus	redside shiner 2
RICHEG	Richardsonius egregius	lahontan redside 3
TINCTI	Tinca tinca	tench 1
OREGCR	Oregonichthys crameri	oregon chub 3
OREGKA	Oregonichthys kalawatseti	umpqua chub 3
CYPRZZ		unknown cyprinid
CATOCB	Catostomus columbianus	bridgelip sucker 1
CATOMA	Catostomus macrocheilus	largescale sucker 1
CATOOC	Catostomus occidentalis	sacramento sucker 1; Goose Lake sucker 3
CATOPL	catostomus platyrhynchus	mountain sucker 2
CATORI	Catostomus rimiculus	klamath smallscale sucker 1; Jenny Creek sucker 3
CATOSY	Catostomus snyderi	klamath largescale sucker 3
CATOTA	Catostomus tahoensis	tahoe sucker 3
CATOWA	Catostomus warnerensis	warner sucker 3
CHASBR	Chasmistes brevirostris	shortnose sucker 3
DELTLU	Deltistes luxatus	lost river sucker 3
CATOZZ		unknown catostomid
MISGAN	Misgurnus anguillicaudatus	oriental weatherfish 2
AMEICA	Ameiurus catus	white catfish 1
AMEIME	Ameiurus melas	black bullhead 1
AMEINA	Ameiurus natalis	yellow bullhead 1
AMEINE	Ameiurus nebulosus	brown bullhead 1
ICTAPU	Ictalurus punctatus	channel catfish 1
NOTUGY	Noturus gyrinus	tadpole madtom 2
PYLOOL	Pylodictis olivaris	flathead catfish 1
PERCTR	Percopsis transmountana	sand roller 2
LOTALO	Lota lota	burbot 1
MICRPR	Microgadus proximus	pacific tomcod 2

Code	Latin name	Common name (vouchering category)
FUNDDI	Fundulus diaphanus	banded killifish 2
LUCAPA	Lucania parva	rainwater killifish 2
GAMBAF	Gambusia affinis	western mosquitofish 2
ATHEAF	Atherinops affinis	topsmelt 2
GASTAC	Gasterosteus aculeatus	threespine stickleback 2
MOROSA	Morone saxatilis	striped bass 1
ARCHIN	Archoplites interruptus	sacramento perch
LEPOCY	Lepomis cyanellus	green sunfish 1
LEPOGI	Lepomis gibbosus	pumpkinseed 1
LEOPGU	Lepomis gulosus	warmouth 1
LEPOMA	Lepomis macrochirus	bluegill 1
LEPOMI	Lepomis microlophus	redear sunfish 1
MICRDO	Micropterus dolomieui	smallmouth bass 1
MICRSA	Micropterus salmoides	largemouth bass 1
POMOAN	Pomoxis annularis	white crappie 1
POMONI	Pomoxis nigromaculatus	black crappie 1
CENTRZZ		unknown centrarchid
PERCFL	Perca flavescens	yellow perch 1
STIZVI	Stizostedion vitreum	walleye 1
CYMAAG	Cymatogaster aggregata	shiner perch 1
PHOLOR	Pholis ornata	saddleback gunnel 2
PLATST	Platichthys stellatus	starry flounder 1
PSEURE	Pseudacris regilla	pacific tree frog
ASCATR	Ascaphus truei	tailed frog
RANAAU	Rana aurora	red-legged frog
RANABO	Rana boylii	foothill yellow-legged frog
RANACA	Rana cascadae	cascade frog
RANACT	Rana catesbiana	bullfrog
RANAPI	Rana pipiens	leopard frog
RANAPR	Rana pretiosa	spotted frog

Code	Latin name	Common name (vouchering category)
BUFOBO	Bufo boreas	western toad
BUFOWO	Bufo woodhousii	woodhouse's toad
AMBYGR	Ambystoma gracile	northwestern salamander
AMBYMA	Ambystoma macrodactylum	longtoed salamander
AMBYTI	Ambystoma tigrinum	tiger salamander
DICACO	Dicamptodon copei	cope's giant salamander
DICATE	Dicamptodon tenebrosus	pacific giant salamander
RHYACA	Rhyacotrition cascadae	cascade torrent salamander
RHYAKE	Rhyacotriton kezeri	columbia torrent salamander
RHYAVA	Rhyacotriton variegatus	southern torrent salamander
TARIGR	Taricha granulosa	rough-skinned newt
AMPHZZ	Rana sp.	unknown amphibian