

# APPENDIX C

## Lists of Nonnative Aquatic and Riparian Species that are Considered Compatible or Non-Compatible with Endangered Fish Recovery in the Upper Colorado River Basin (Revised May 2015)

**Table C-1. Lists of nonnative aquatic species' compatibility with the recovery and preservation of endangered and native aquatic species within critical habitat of the upper Colorado River basin (UCRB).** Judicious management of compatible species must conform to Stocking Procedures signed by the upper basin States of Utah, Colorado, and Wyoming, and the U.S. Fish and Wildlife Service in 2009 (USFWS 2009). These stocking procedures prohibit stocking any nonnative species directly into riverine critical habitat and require that non-salmonid species be managed in isolated or screened ponds or reservoirs to prevent or control their escapement into critical habitat. Non-compatible species should not be further introduced or stocked into any waters in the UCRB. All nonnative species not listed here are initially classified as non-compatible but may be considered on a case by case basis.

Compatible List	Non-Compatible List
<b>Fish</b>	
<p>Salmonids, including, but not limited to:</p> <p>Brown trout <i>Salmo trutta</i></p> <p>Lake trout <i>Salvelinus namaycush</i></p> <p>Arctic char <i>Salvelinus alpinus</i></p> <p>Brook trout <i>Salvelinus fontinalis</i></p> <p>Rainbow trout <i>Oncorhynchus mykiss</i></p> <p>Cutthroat trout <i>Oncorhynchus clarkii</i></p> <p>Kokanee <i>Oncorhynchus nerka</i></p> <p>&amp; Arctic grayling <i>Thymallus arcticus</i></p> <p>Bluegill <i>Lepomis macrochirus</i></p> <p>Black crappie <i>Pomoxis nigromaculatus</i></p> <p>Largemouth bass <i>Micropterus salmoides</i></p> <p>Yellow perch <i>Perca flavescens</i></p> <p>Triploid grass carp <i>Ctenopharyngodon idella</i></p> <p>Fathead minnow <i>Pimephales promelas</i></p> <p>Tiger muskie* <i>Esox masquinongy</i> x <i>E. lucius</i></p> <p>Wiper* <i>Morone saxatilis</i> x <i>M. chrysops</i> (Hybrid Striped bass)</p> <p>Sterile Walleye* <i>Sander vitreus</i> (100% triploidy)</p>	<p>Smallmouth bass^ <i>Micropterus dolomieu</i></p> <p>Northern pike <i>Esox lucius</i></p> <p>Walleye <i>Sander vitreus</i></p> <p>White sucker <i>Catostomus commersoni</i></p> <p>Red shiner <i>Cyprinella lutrensis</i></p> <p>Burbot <i>Lota lota</i></p> <p>Catfish species, including, but not limited to:</p> <p>Channel catfish^ <i>Ictalurus punctatus</i></p> <p>Blue catfish <i>Ictalurus furcatus</i></p> <p>Flathead catfish <i>Pylodictis olivaris</i></p> <p>Black bullhead <i>Ameiurus melas</i></p> <p>Yellow bullhead <i>Ameiurus natalis</i></p>
<p>* In order to be considered compatible, the stocking of sterile predators requires appropriate escapement prevention, such as outlet screens or spillway nets</p>	<p>^ May be stocked in waters above Flaming Gorge Dam</p>

Compatible List	Non-Compatible List
<b>Crustaceans</b>	
	All crayfish species Anchor Worm <span style="float: right;"><i>Lernea cyprinacea</i></span>
<b>Molluscs</b>	
	Quagga and Zebra mussel <span style="float: right;"><i>Drissena</i> spp.</span> New Zealand mud snail <span style="float: right;"><i>Potamopyrgus antipodarum</i></span>
<b>Cestodes</b>	
	Asian tapeworm <span style="float: right;"><i>Bothriocephalus acheilognathi</i></span>
<b>Plants</b>	
	Tamarisk <span style="float: right;"><i>Tamarix</i> spp.</span> Russian olive <span style="float: right;"><i>Elaeagnus angustifolia</i></span> Didymo <span style="float: right;"><i>Didymosphenia geminata</i></span> Eurasian watermilfoil <span style="float: right;"><i>Myriophyllum spicatum</i></span>

## References

USFWS. 2009. Procedures for Stocking Nonnative Fish Species in the Upper Colorado River Basin. U.S. Fish and Wildlife Service, Denver, Colorado. 15 pp.