



**NORTH DAKOTA'S AQUATIC NUISANCE SPECIES -
SPECIES LIST
NORTH DAKOTA GAME AND FISH DEPARTMENT
FEBRUARY, 2013**

The North Dakota Game and Fish Department, with input from members of the Aquatic Invasive Species Committee (AISC), has created a listing of North Dakota aquatic nuisance species (ND ANS). The official list includes biota considered as a threat to the state's waters; these ANS have caused known irreversible ecologic and/or economic consequences elsewhere. Negative impacts ANS may have on native North Dakota biota are likely given the following: 1) North Dakota's climate and habitats appear favorable to the ANS, 2) the ANS has the potential to establish a viable population in North Dakota waters, 3) the ANS is likely to spread within North Dakota waters if a pioneering population becomes established, and 4) there are one or more existing populations of the ANS close to North Dakota &/or in a few instances the ANS already occurs in the state. The ANS list for North Dakota is inclusive to any hybrids, cultivars, or varieties of the species listed below.

The ND ANS list will be reviewed annually and adjustments will be made as deemed necessary. Revisions may include the addition of federally prohibited species, the deletion of species which are no longer considered threats to North Dakota's aquatic environments, or the addition of species which have become a greater concern regarding the potential to establish and become detrimental in North Dakota's waters. The existing ND ANS list was last modified in March, 2007.

ND ANS are classified for permitting purposes. The permitting system is based on the need to control movement into or within North Dakota and allows for traditional use of select aquatic species. See **ANS Classification System and Associated Permitting** for details of the permitting system.

The following **fish** species are considered aquatic nuisance species for North Dakota. :

Scientific Name	Common name	Class
genera <i>Channa</i> and <i>Parachanna</i> (or their generic synonyms of <i>Bostrychooides</i> , <i>Ophicephalus</i> , <i>Ophiocephalus</i> , and <i>Parophiocephalus</i>) of the Family Channidae, including but limited to:		
<i>Channa argus</i>	Northern snakehead	1
<i>Channa maculata</i>	Blotched snakehead	1
<i>Channa marulius</i>	Bullseye snakehead	1
<i>Channa micropeltes</i>	Giant snakehead	1
<i>Hypophthalmichthys nobilis</i> *	Silver carp	1
<i>Hypophthalmichthys molitrix</i>	Bighead carp	1
<i>Mylopharyngodon piceus</i>	Black carp	1
<i>Ctenopharyngodon idella</i> **	Grass carp	1
<i>Cyprinus carpio</i> *	Common carp	3
<i>Scardinius erythrophthalmus</i>	European Rudd	1
<i>Neogobius melanostomus</i>	Round goby	1
<i>Proterorhinus marmoratus</i>	Tubenose goby	1
<i>Gymnocephalus cernuus</i>	Eurasian Ruffe	1

NORTH DAKOTA'S AQUATIC NUISANCE SPECIES
-SPECIES LIST (CONTINUED)

The following **bivalves** (e.g. mussels, clams, snails) are considered aquatic nuisance species for North Dakota:

Scientific Name	Common Name	Class
<i>Corbicula fluminea</i>	Asian clam	1
<i>Dreissena polymorpha</i> **	Zebra mussel	1
<i>Dreissena bugensis</i>	Quagga mussel	1
<i>Potamopyrgus antipodarum</i>	New Zealand mudsnail	1

The following **invertebrates** (i.e. crayfish and zooplankton) are considered as aquatic nuisance species for North Dakota:

Type of Invertebrate	Scientific Name	Common Name	Class
Crayfish	<i>Orconectes rusticus</i>	Rusty crayfish	1
Amphipod	<i>Echinogammarus ischnus</i>	Scud	1
Zooplankton	<i>Cercopagis pengoi</i>	Fishhook water flea	1
	<i>Bythotrephes cederstroemi</i>	Spiny water flea	1

The following **pathogens** (i.e. viruses, bacteria, parasites) are considered as aquatic nuisance species for North Dakota:

Type	Common Name	Scientific Name	Class
Viruses	Infectious Hematopoietic Necrosis Virus	IHNV	1
	Infectious Pancreatic Necrosis Virus	IPNV	1
	Infectious Salmon Anemia Virus	ISAV	1
	Koi Herpes Virus	KHV	1
	Channel Catfish Virus	CCV	1
	Largemouth Bass Virus	LMBV	1
	Viral Hemorrhagic Septicemia Virus	VHSV	1
	White Sturgeon Herpes Virus – 2	WSHV-2	1
Bacteria	Proliferative Kidney Disease	PKD	1
	<i>Edwardsiella ictaluri</i>	Enteric septicemia of catfish	1
	<i>Renibacterium salmoninarum</i>	BKD	1
	<i>Yersinia ruckeri</i>	Enteric redmouth disease	1
Parasites	Heterosporis sp		1
	<i>Bothriocephalus opsarichthydis</i> Syn. <i>Bothriocephalus acheilognathi</i> and <i>Bothriocephalus gowkengensis</i>	Asian tapeworm	1

The following **plants** are considered as aquatic nuisance species for North Dakota:

Scientific Name	Common Name	Class
<i>Potamogeton crispus</i> *	Curly leaf pondweed	2
<i>Myriophyllum spicatum</i> *	Eurasian watermilfoil	2
<i>Didymosphenia geminata</i>	Didymo or rock snot	1

* - species documented to currently be present in North Dakota

** - species that were previously documented to be present in North Dakota but that are not thought to currently be present.