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 is reviewed and updated annually; adjustments are 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.

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:

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Channa argus</em></td>
<td>Northern snakehead</td>
<td>1</td>
</tr>
<tr>
<td><em>Channa maculata</em></td>
<td>Blotched snakehead</td>
<td>1</td>
</tr>
<tr>
<td><em>Channa marulius</em></td>
<td>Bullseye snakehead</td>
<td>1</td>
</tr>
<tr>
<td><em>Channa micropeltes</em></td>
<td>Giant snakehead</td>
<td>1</td>
</tr>
<tr>
<td><strong>Hypophthalmichthys nobilis</strong>*</td>
<td>Silver carp</td>
<td>3</td>
</tr>
<tr>
<td><em>Hypophthalmichthys molitrix</em></td>
<td>Bighead carp</td>
<td>1</td>
</tr>
<tr>
<td><em>Mylopharyngodon piceus</em></td>
<td>Black carp</td>
<td>1</td>
</tr>
<tr>
<td><em>Ctenopharyngodon idella</em>*</td>
<td>Grass carp</td>
<td>1</td>
</tr>
<tr>
<td><em>Cyprinus carpio</em></td>
<td>Common carp</td>
<td>3</td>
</tr>
<tr>
<td><em>Scardinius erythropthalmus</em></td>
<td>European rudd</td>
<td>1</td>
</tr>
<tr>
<td><em>Neogobius melanostomus</em></td>
<td>Round goby</td>
<td>1</td>
</tr>
<tr>
<td><em>Proterorhinus marmoratus</em></td>
<td>Tubenose goby</td>
<td>1</td>
</tr>
<tr>
<td><em>Gymnocephalus cernuus</em></td>
<td>Eurasian ruffe</td>
<td>1</td>
</tr>
</tbody>
</table>
The following **mollusks** (e.g. mussels, clams, snails) are considered aquatic nuisance species for North Dakota:

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corbicula fluminea</td>
<td>Asian clam</td>
<td>1</td>
</tr>
<tr>
<td><em>Dreissena polymorpha</em></td>
<td>Zebra mussel</td>
<td>1</td>
</tr>
<tr>
<td><em>Dreissena bugensis</em></td>
<td>Quagga mussel</td>
<td>1</td>
</tr>
<tr>
<td><em>Potamopyrgus antipodarum</em></td>
<td>New Zealand mudsnail</td>
<td>1</td>
</tr>
<tr>
<td><em>Bithynia tentaculata</em></td>
<td>Faucet snail</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Type of Invertebrate</th>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crayfish</td>
<td>Orconectes rusticus</td>
<td>Rusty crayfish</td>
<td>1</td>
</tr>
<tr>
<td>Amphipod</td>
<td><em>Echinogammarus ischnus</em></td>
<td>Scud</td>
<td>1</td>
</tr>
<tr>
<td>Zooplankton</td>
<td><em>Cercopagis pengoi</em></td>
<td>Fishhook water flea</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><em>Bythotrophes cederstroemi</em></td>
<td>Spiny water flea</td>
<td>1</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potamogeton crispus</td>
<td>Curly leaf pondweed</td>
<td>2</td>
</tr>
<tr>
<td><em>Myriophyllum spicatum</em></td>
<td>Eurasian watermilfoil</td>
<td>2</td>
</tr>
<tr>
<td>Didymosphenia geminata</td>
<td>Didymo or rock snot</td>
<td>1</td>
</tr>
</tbody>
</table>

* - species documented in ND within the past five years and thought to still be present
** - species last documented in ND more than five years ago and no longer thought to be present