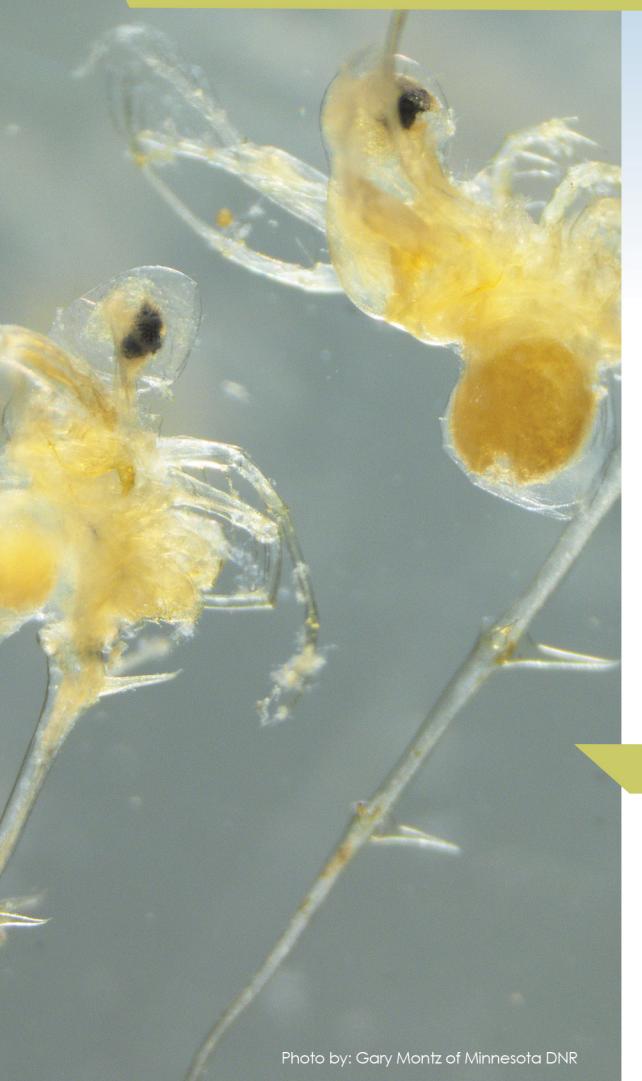


The micro battle... Spiny Waterfleas



Spiny waterfleas are small predaceous crustaceans that threaten aquatic ecosystems and fishing by competing with native fish for food and fouling fishing gear. Spiny waterfleas were discovered in Lake Ontario first, and spread to all of the Great Lakes and some inland lakes.

Spiny waterfleas collect in masses on fishing lines and downrigger cables. These masses can clog the first eyelet of rods, damage a reel's drag system, and prevent fish from being landed. They can spread to inland waters when fishing gear is contaminated with egg-laden females. While females die out of water, under certain conditions they produce eggs that resist drying, remain viable, and can establish a new population.

What can be done?

- Learn to recognize these waterfleas on fishing gear.
- Inspect and remove aquatic plants, animals, and mud from boat, motor, and trailer.
- Drain water from boat, motor, livewell, bilge, and bait containers.
- Dispose of unwanted live bait, worms, and fish parts in the trash.
- Rinse boat and equipment with high pressure, hot water.
- Dry boats and gear for at least 5 days, lifts and docks for at least 21 days.

How to identify Spiny Waterfleas

Difficult to distinguish without magnification, 1/4 - 5/8 in (5-15mm) total length. Clumps look and feel like gelatin or cotton batting with tiny black spots.

They prefer deep lakes, but can establish in shallow waterbodies and rivers.

Abundant during summer (June-September) depending upon water temperatures.



Decontamination stations

Both Crow Wing County and the DNR offer decontamination options.

Decontamination units are high pressure, high heat wash units that allow boaters to decontaminate watercraft at the public water access or at a designated location without allowing any of the wash water to run off back into the lake. Crow Wing County plans to provide decontamination stations strategically located throughout the County. They will be open daily during the boating season at no charge to the public.

You can find the current Crow Wing County Decontamination Stations marked on the map to the right with a small red flag.

What are Level 1 and level 2 inspectors?

Established by the DNR, Level 1 Watercraft Inspectors are trained to inspect watercraft. Level 2 Watercraft Inspectors are trained to inspect and decontaminate watercraft.

Crow Wing County Lakes: Status Report

Data is current as of 2014.



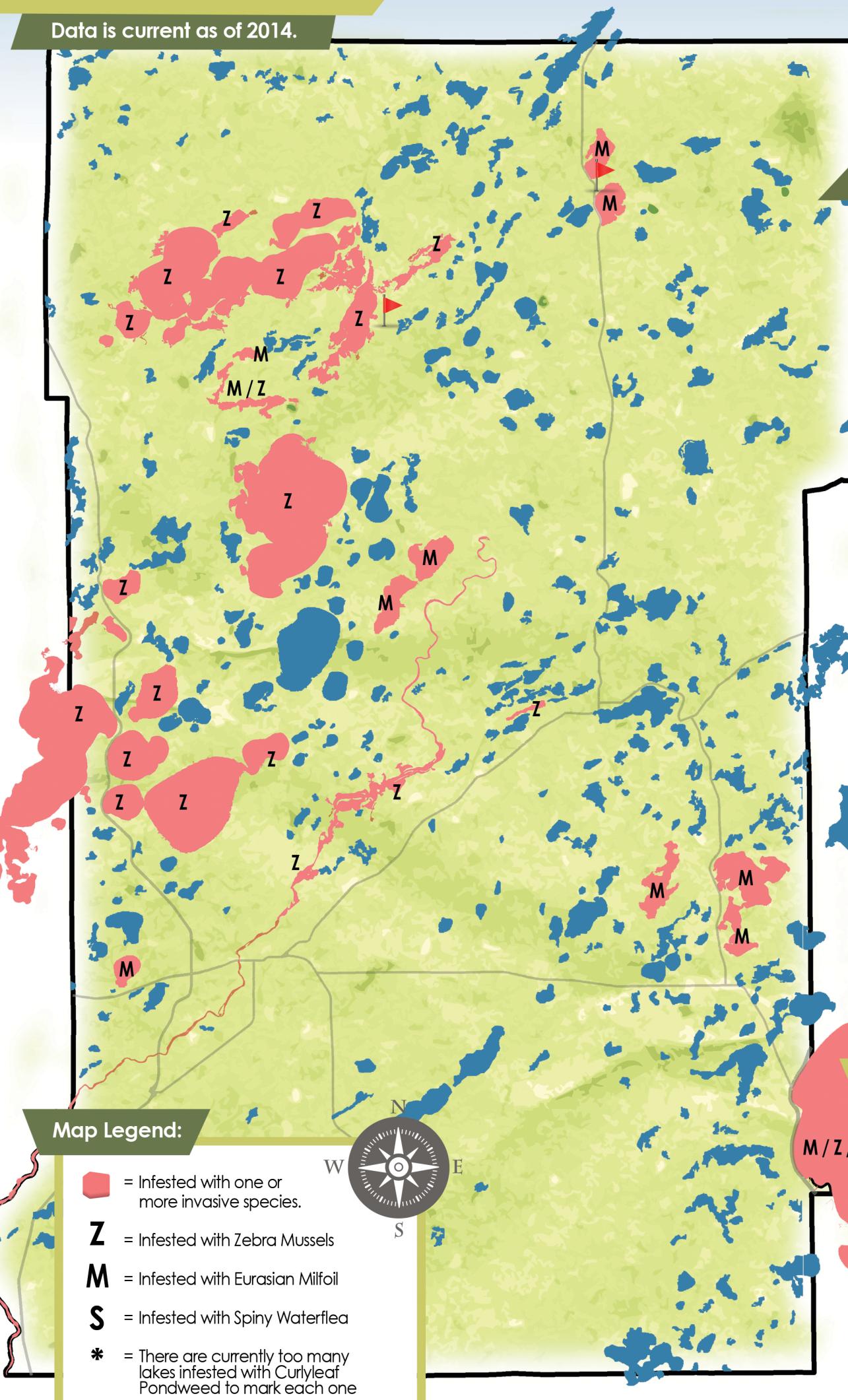
Think outside the prop!

It's important to remember there are other pathways for invasive species to spread than just by boats and trailers.

Other watercraft such as jet skis, canoes, kayaks and duck boats can carry invasives from one body of water to another. It is best to check all of your boating equipment to ensure there are no aquatic hitchhikers onboard. Even the ballast or livewells of your boat should be checked and cleaned.

Docks, buoys, and floatation decks should also be thoroughly inspected, cleaned and dried before moving them from one body of water to another.

Even hunters and hikers boots can carry some forms of invasive species, such as the New Zealand Mud Snail.



When to decontaminate

- If AIS are discovered during a boat/trailer inspection.
- If the watercraft has been in infested waters for more than 24 hours.
- If the watercraft will be transported from one body of water to another within 24 hours.
- If there is water you cannot see, such as water in ballast tanks.

PROTECT OUR LAKES!

4 things you can do...

There are many things you can do to help protect our lakes, the most important 4 steps are as follows:

- 1 **Leave the water at the lake**
Drain water from boat, motor, live wells & bait buckets before leaving the lake.
- 2 **Clean up your rig**
Remove plants, mud, and other debris from your boat and trailer.
- 3 **Dry it out**
Do not move docks and lifts from one body of water to another without sufficient time to dry. This is a good idea for boats as well.
- 4 **Spread the word not the species**
Unless it came from that body of water, don't put it in there. This includes anything from your aquarium.



Have Questions?
Scan the QR code to get answers



Other invasives to watch for

Potential invaders of our waters:

● Present in our waters	○ Not yet present
● Purple loosestrife	○ Ruffe
● Water Chestnut	● Rusty Crayfish
● Hydrilla	○ Faucet Snails
● Asian Carp	○ Flowering Rush
● Round Goby	○ New Zealand Mud Snail

The collage consists of three photographs. The left image shows a dense, tangled mass of green Eurasian watermilfoil (Myriophyllum spicatum) with its characteristic feathery leaves. The middle image shows a cluster of zebra mussels (Dreissena polymorpha) attached to a dark, textured surface, likely a boat hull. The right image shows a dense, floating mat of hydrilla (Hydrilla verticillata) with its characteristic fan-like, submerged leaves.

PROTECT OUR LAKES!

YOU CAN HELP

Call 218-824-1125 to speak with one of our specialists. We're ready to help you. www.crowwing.us

Crow Wing County is committed to protecting, preserving & improving water resources in Crow Wing County by being good stewards of the County's resources, organized, and innovative while being proactive, efficient, customer focused.

Scan for AIS info

MINNESOTA
COUNTRY
CROW WING

QR code

A photograph of a wooden dock chair with a metal frame, positioned on a wooden pier. The water is calm with golden reflections. A quote is overlaid on the image: "Many drops make a bucket, many buckets make a pond, many ponds make a lake. ...To protect one, we protect them all." The quote is attributed to "Photo by: Arctic Haze" in the top right corner.

The battle against Zebra Mussels

The war on Eurasian Watermilfoil



Photo by: Alison Fox, University of Florida, Bugwood.org

Eurasian watermilfoil is a feathery submerged aquatic plant that can quickly form thick mats in shallow areas of lakes and rivers in North America. These mats can interfere with swimming and entangle propellers, which hinders boating, fishing, and waterfowl hunting. Matted milfoil can displace native aquatic plants, impacting fish and wildlife.

Eurasian watermilfoil has invaded nearly every U.S. state. Milfoil spreads when plant pieces break off and float on water currents. It can cross land to new waters by clinging to sailboats, personal watercraft, powerboats, motors, trailers, and fishing gear.

What can be done?

- Learn to identify Eurasian watermilfoil.
- Inspect and remove aquatic plants, animals, and mud from boat, motor, and trailer.
- Drain water from boat, motor, livewell, bilge, and bait containers.
- Dispose of unwanted live bait and worms in the trash.
- Spray/Wash boat, trailer, and equipment with high-pressure hot water.
- Dry boats and gear for at least 5 days, lifts and docks for at least 21 days.

How to identify Eurasian Watermilfoil

The plants are found in water less than 20 feet deep and may form mats in waters less than 15 feet deep.

A native look-alike, northern watermilfoil, has fewer leaflet pairs.



Photo by: Graves Lovell, Alabama Dept. of Conservation and Natural Resources, Bugwood.org

Fighting Curlyleaf Pondweed

Curlyleaf pondweed is a rooted submerged plant that quickly forms dense mats at the water surface of lakes and rivers in late spring and early summer. It sprouts in late fall and early winter, shading out later growing native plants. Mats interfere with boating, fishing, waterfowl hunting, and swimming. Summer die-offs can form windrows of decaying plants on shore, sometimes followed by algal blooms. Curlyleaf pondweed displaces native plant communities and decay can deplete oxygen levels, leading to fish kills and impacts on other aquatic life.

Native to Eurasia, Africa and Australia, curlyleaf pondweed was first discovered in North America in the mid 1880s. It spreads by seeds, rhizomes, turions, and plant pieces that break off and float on water currents. It can spread overland to new waters by clinging to watercraft, trailers, and equipment.

What can be done?

- Learn to recognize curlyleaf pondweed.
- Inspect and remove aquatic plants, animals, and mud from boat, motor, and trailer.
- Drain water from boat, motor, livewell, bilge, and bait containers.
- Dispose of unwanted live bait, worms, and fish parts in the trash.
- Rinse boat and equipment with high pressure, hot water.
- Dry boats and gear for at least 5 days, lifts and docks for at least 21 days.

How to identify Curlyleaf Pondweed

Tolerant of low light, it grows throughout the winter. They are found in floating mats in more shallow areas in lakes, ponds, and moderately flowing rivers.

Can sometimes be confused with largeleaf pondweed or claspingleaf pondweed.

Photo by Leslie J. Mehrhoff, University of Connecticut, Bugwood.org

Photo by Leslie J. Mehrhoff, University of Connecticut, Bugwood.org