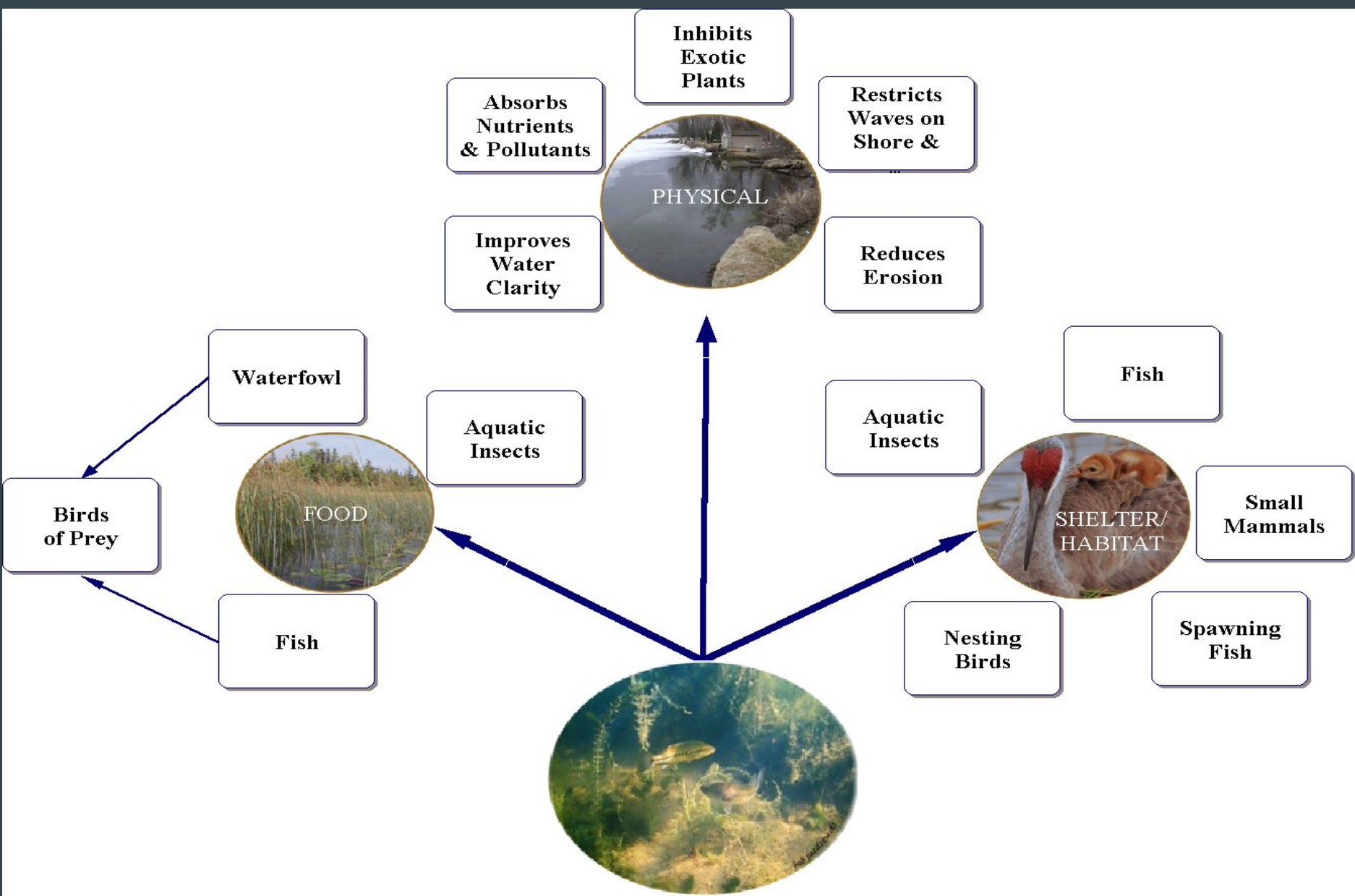


Aquatic Plants in Lake Wausau 2017 Surveys



Chris Hamerla and Nancy Turyk
September 27, 2017





AQUATIC PLANTS
Food and Refuge for Aquatic Life

Surveys

Needs to be done every 5 years if doing aquatic plant management activities




★ 2017 and 2012

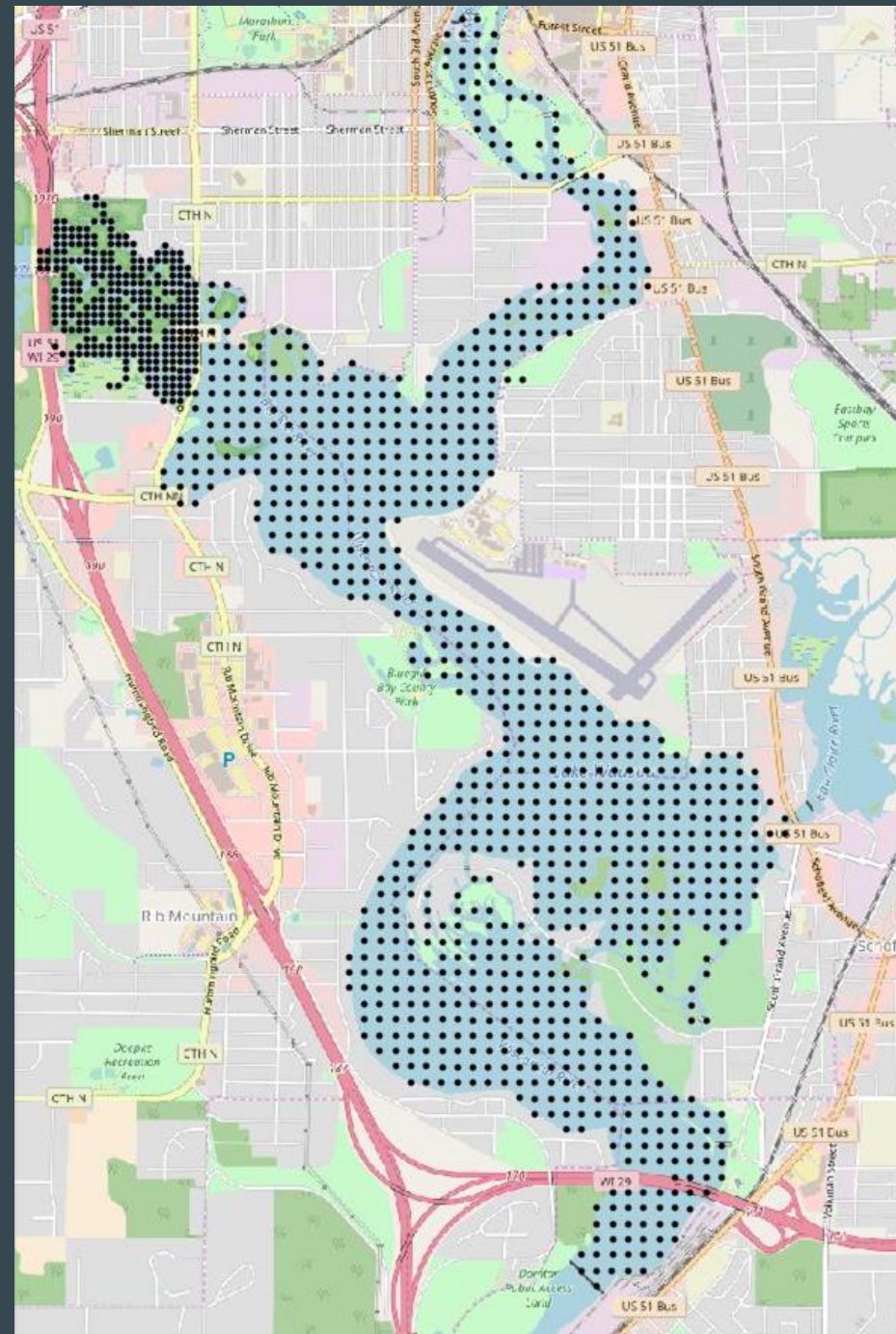
★ Two surveys each year - June and Late Summer

★ 2017 Vegetated sites

★ L Wausau section 264 of 654 sites

★ 34 sites

Rating	Coverage	Description
1		A few plants on rake head
2		Rake head is about 1/2 full. Can easily see top of rake head
3		Overflowing Cannot see top of rake head



Survey Summary

★ Species diversity is beneficial

- 41 species in Lake Wausau section
- 40 species in Rib River section

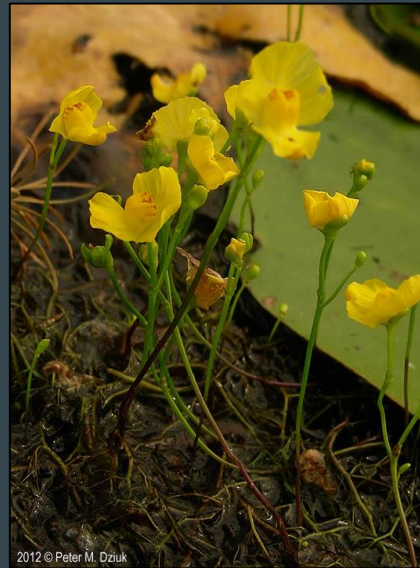
★ 3 sensitive species

- Wild calla
- Vasey's pondweed
- Spiny hornwort
- Oak's pondweed (2012)
- Small bladderwort (2012)
- Creeping bladderwort (2012)

★ 2 Invasive species

- Curly leaf pondweed
- Eurasian water milfoil

Wild Calla

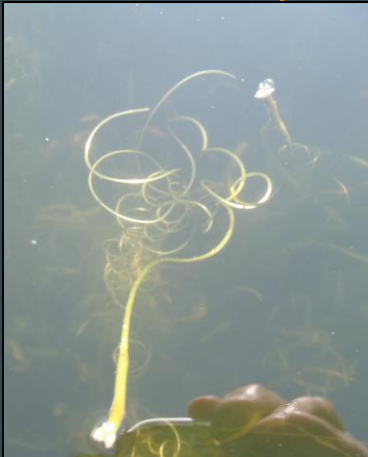


Creeping Bladderwort



Most Abundant Species

Water Celery



Common Waterweed



Coontail



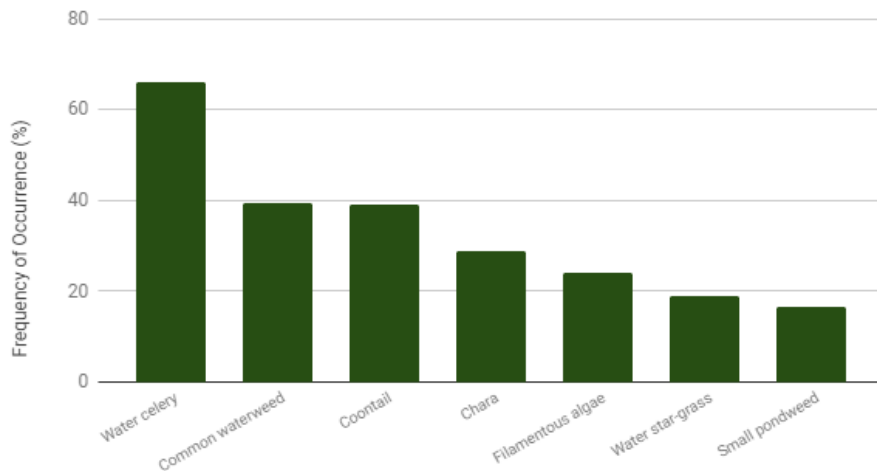
Chara



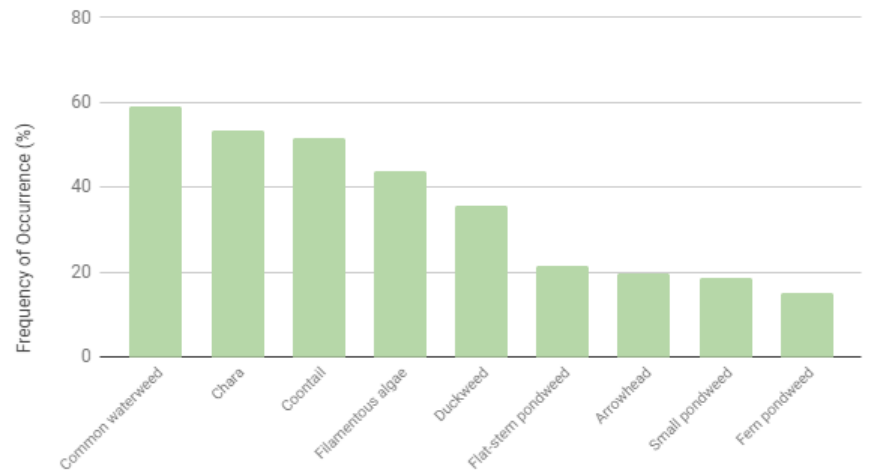
Duckweed



Lake Wausau Section 2017






Rib River Section

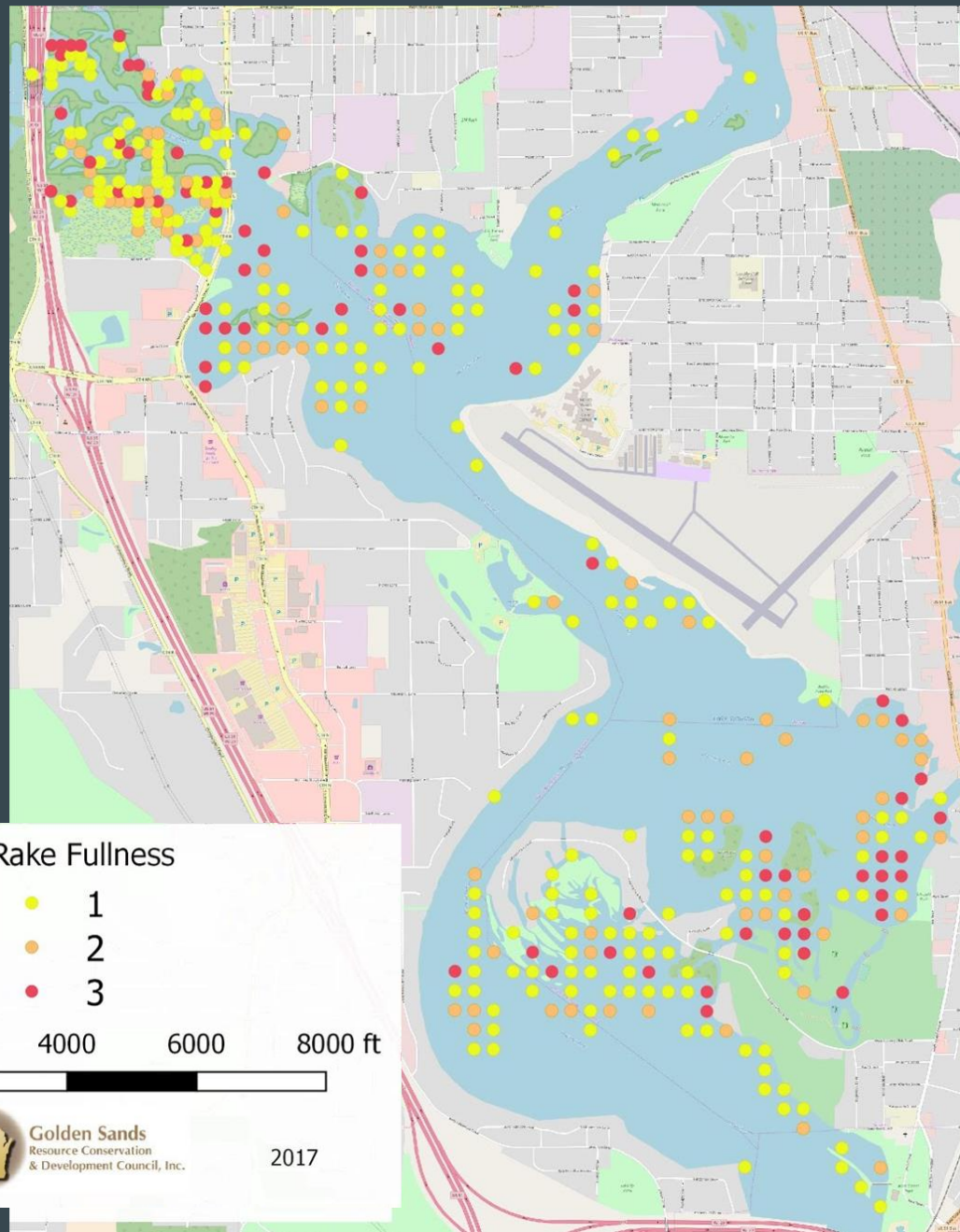


Rake Fullness

Percent vegetated (of sites visited)

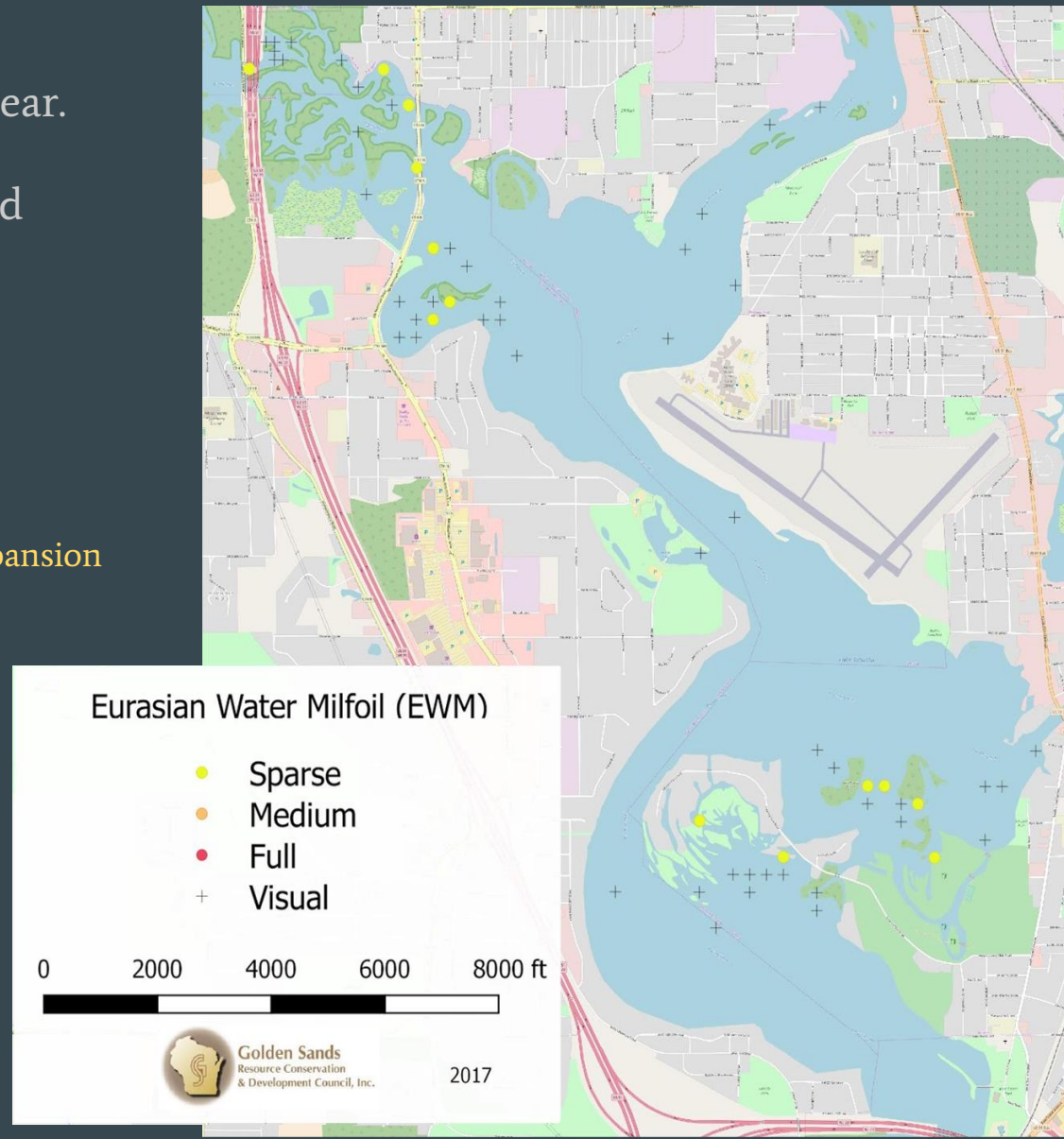
	2017	2012
Rib River section	83.6	81.8
Lake Wausau section	40.4	45.5

Rating	Coverage	Description
1		A few plants on rake head
2		Rake head is about 1/2 full Can easily see top of rake head
3		Overflowing Cannot see top of rake head



Eurasian Water Milfoil (EWM) - AIS

- ★ Spreads by fragments and seeds.
- ★ Brought in by boats, trailers, & gear.
- ★ Can become overly abundant and difficult to manage.
- ★ Recommendations
 - Monitor for expansion of beds
 - Notify WDNR plant biologist if expansion



June Survey - Curly-leaf Pondweed (CLP)

- ★ Grows beneath ice then dies off when water is warm (late June)
- ★ Releases nutrients - often followed by filamentous algal growth

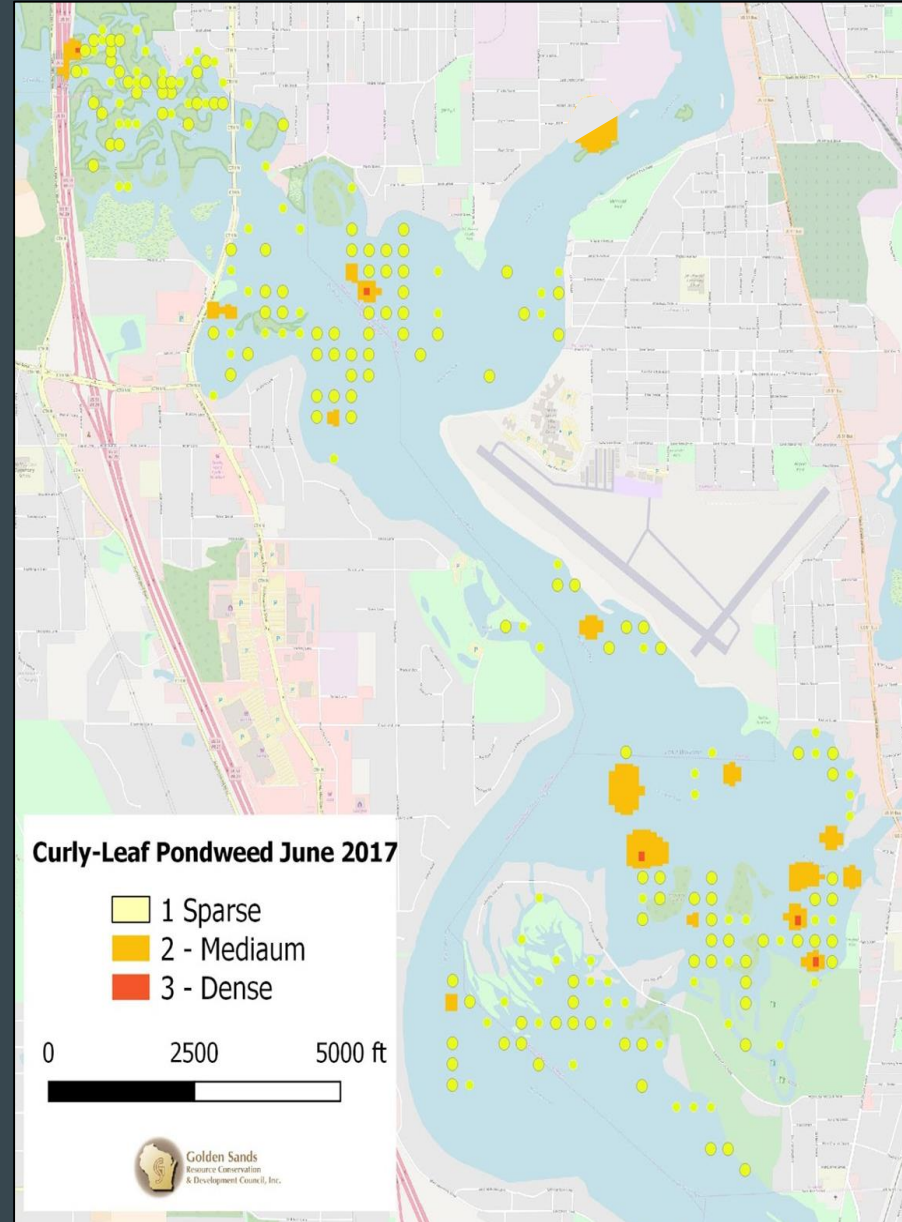
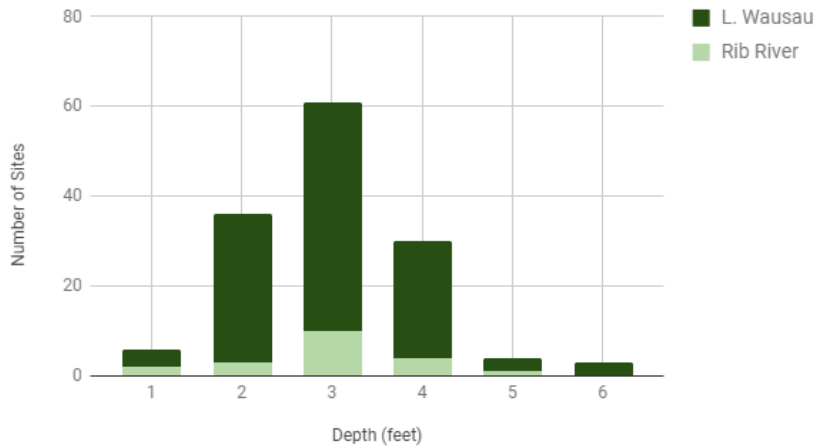


Filamentous algae



June Survey - Curly-leaf Pondweed (CLP)

Depth of Curly-leaf Pondweed (CLP), June 2017 Survey



Aquatic Invasive Species Prevention



Aquatic Invasive Species Prevention: AIS Detecting!



Citizen Lake Monitoring Network - AIS Training

- ★ Get trained to monitor for AIS and to be an AIS early detector
 - **CLMN kit**
- ★ Map populations to detect changes
- ★ Notice changes in your lake early
- ★ Learn more about your lake
- ★ Get more people involved
- ★ Check docks and rafts (spring, fall)
- ★ Project RED training = upstream
- ★ Snapshot day involvement



Contracted Services

Aquatic Invasive Species Prevention: Outreach & Education

Outreach & Education

- ★ Newsletters
- ★ Facebook
- ★ Media outreach
- ★ Presentations at annual meetings
- ★ Get local businesses, scouts, schools and other lake user groups involved

- **Fern Island Oct 13th**

- ★ Signs at landings
- ★ Special event involvement (powerboat races, WI RI Clean Up)
- ★ Encourage training towards ID and removal of AIS



Aquatic Invasive Species Prevention: Clean Boats Clean Waters



Clean Boats Clean Waters

- ★ Volunteer to monitor the boat landings during high traffic times
- ★ Shows ownership
- ★ Educates boaters, anglers, hunters, general public
- ★ Gets members involved



Can be Contracted Services