Detecting Invasive Species Through a Two-state, Coordinated AIS Snapshot Day

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> Wisconsin Lakes Partnership Convention Stevens Point, WI April 19, 2018







Overview

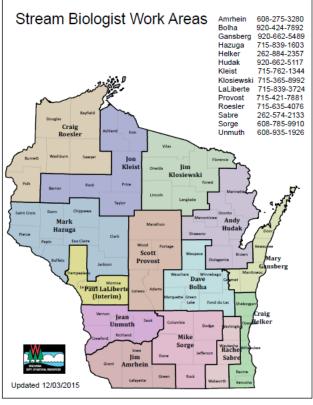
- The beginning
- Targeting
- Expanding

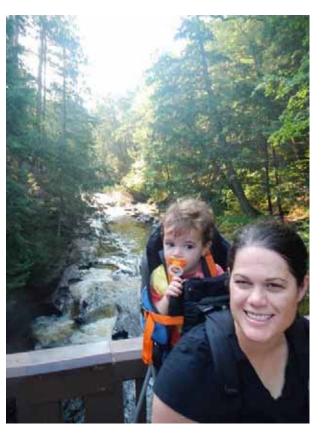












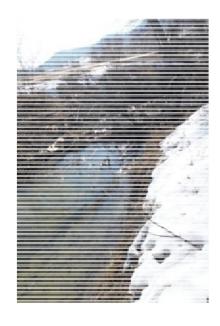
























- DNR AIS monitoring protocol for streams
- Adapted for volunteers to target fall water garden releases at public access locations



Water hyacinth (Eichhornia crassipes)



Water lettuce (Pistia stratiotes)







- Protocols & datasheet
- Webinar training for local coordinators
- Template PowerPoint
- Press & social media packet
- Flyers & handouts
- Social media







- Local coordinator selects sites
- Recon on sites
- Recruits volunteers
- Prepares maps
- Trains volunteers ID and protocols in morning







Protocol Basics

- Dry or wet site
- Two Minutes per step/transect
 - Look
 - Rake
 - Scoop
- Collect
- Clean

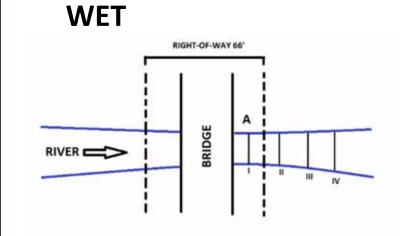


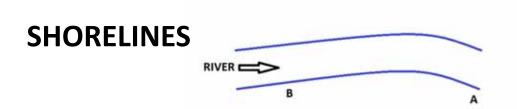


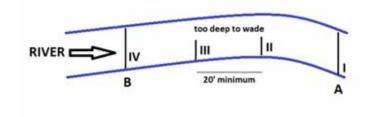




BRIDGES RIVER C D B B













DRY



WET



BRIDGES













Site name: Murphy's Creek at Lalor Road Station ID: 10010964 Coordinates: 42.98346N, -89.36288W Protocols (circle one): Boat launch Dry Bridge/Culvert Dry Shoreline Did you use a handscoop? Yes No							Names of Volunteers:	Names of Volunteers: Any Smith, Abiguel White, Jereny Black		
							Jeremy &			
Wet Bridge/Culvert	2000-	you us				0	Local Site Coordinator/Initial Verifier:			
Start Time:			Time:		_	_	Amanda Perdzock			
ist each aquatic inv ndicate whether yo			timate	the ar	ea and	den	pulation, or indicate in the check box if none		OORDINATORS **	
Species	Estimated area (m²)	Density*	Sample		Picture taken?		Comments/Corrected Species ID		erification (y/n) Submitting For Voucher?	
Couly lead	pol 1	2	0	N	(Y)	N		Y	Y	
Rustin Crass	list 4	1	Y	N	٧	Ν	Native Cray Fish,	PN	N	
EUM	2	3	(7)	N	0	N	Already documentes	LAPY	N	
			Y	N	Y	N		30373		
			Y	N	Y	N				
			Y	N	Y	N				
			Υ	N	Y	N				
			Υ	N	Υ	N				
Check box if n Other observation Who did you send	o aquatic invasi		were o	bserve		any s	ittered populations (25 – 500) 3: Dense p	opulation (> 50	0)	







- Volunteers bring back specimens in afternoon
- Local coordinator IDs and takes photos
- Data in SWIMS
- Submit to DNR









Clean













First few years very successful!

- 2014: 135 sites

- 2015: 126 sites

- 2016: 145 sites

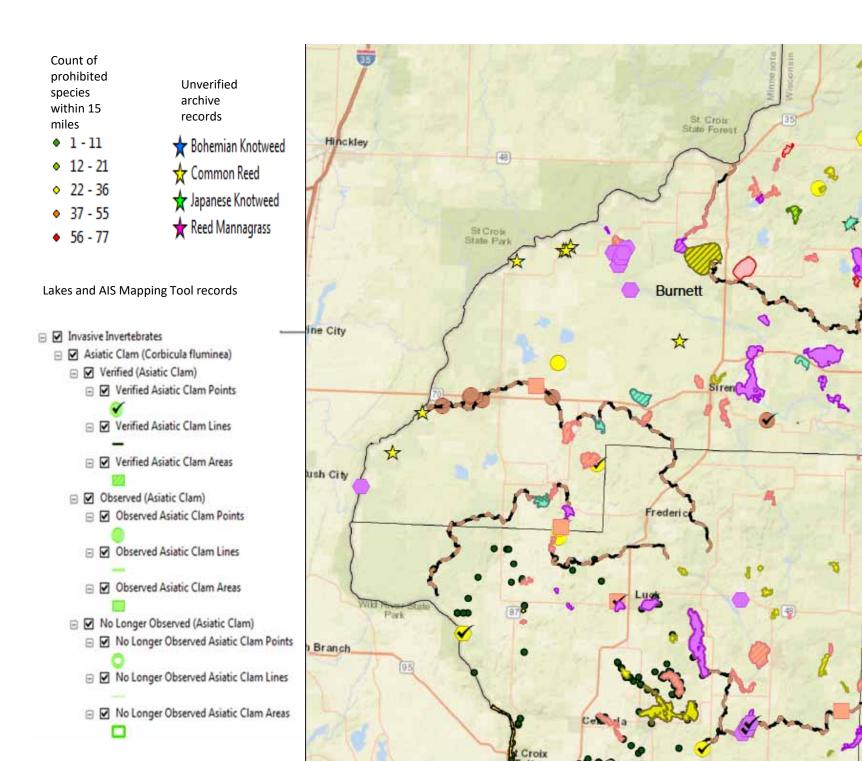
• Duplicate entries











2017 – A Broader Effort

Partner with CLMN to add lakes to Snapshot Day Partner with University of Minnesota 'Starry Trek' to create a two-state event



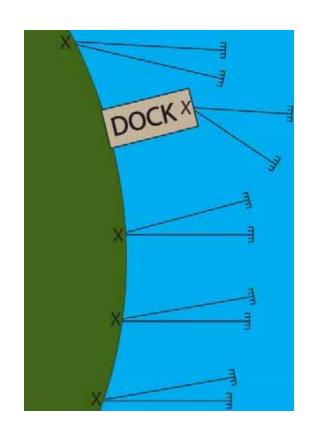






Monitoring Protocol: Site Arrival

- 1. Identify boundaries of public access
- 2. Search begins at one end and ends at the other
- 3. Plan 5 equally spaced locations within public access boundaries
 - Note if there is a dock or pier, make that one of the locations
 - Sample off any side, but try to focus on area(s) boats frequently travel through

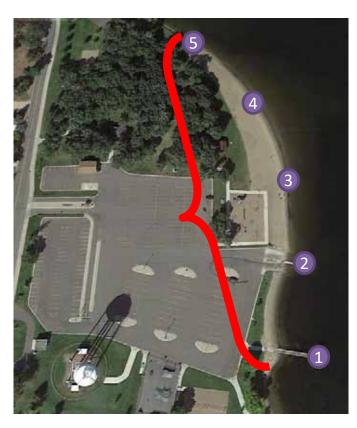








Monitoring Protocol: Site Arrival











At each sampling location:

- 1. SCAN the area for 30 seconds
 - Spend more time if needed (e.g. areas of heavy vegetation)
 - Include plant fragments and shells on shore & plants and animals in the water
 - Use polarized sunglasses (if available)









- 2. TOSS the sampling rake into the water
 - Aim for concentrations of plants or anything suspicious from the scan
 - Be sure to hang onto one end of the rope











3. EXAMINE material attached to the rake

Use provided ID resources to help identify suspicious organisms









Return To Base

Volunteers return to the local training site ("rendezvous site") to examine anything suspicious with the local coordinator. 57 lake sites sampled on August 5th, 2017!









4. REPORT new invasive species populations

Local coordinator enters data and photographs specimens on datasheet









First few years very successful!

- 2014: 135 sites

- 2015: 126 sites

- 2016: 145 sites

- 2017: 154!









2017 Snapshot Day Survey

90% of participants are "likely" or "very likely" to participate again in 2018.

67% rated the quality of their Snapshot Day experience as "very good", 33% as "good".

98% felt comfortable identifying AIS after participating in Snapshot Day.









Welcome to the team, Natalie!









Questions/Comments

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