

2019 Spring Partner Meeting

Protecting, enhancing, and promoting northwest Michigan's natural communities through terrestrial invasive plant management and outreach.

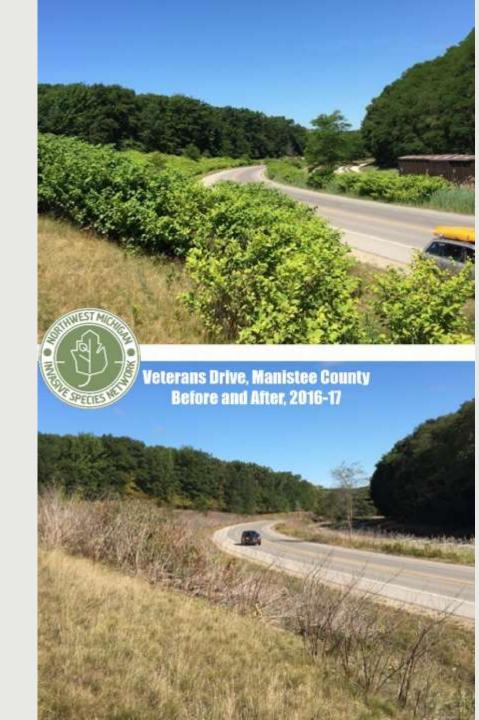
HabitatMatters.org



ISN's History

- Founded 2005
 - NW MI CWMA
- GT Regional ISN: 2010
- Merged 2012!







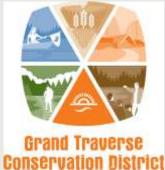
Funding provided by:

Michigan Invasive Species Grant Program Great Lakes Restoration Initiative

Major Partners

























- ➤ Garfield Township
- ➤ City of Frankfort
- ➤ Benzie Long Lake Association
- ➤ Portage Lake Watershed Forever ➤ Grand Traverse Audubon Club
- ➤ Friends of Betsie Bay
- ➤ The Nature Conservancy

- ➤ Sleeping Bear Dunes National Lakeshore
- ► Grand Traverse Band of Ottawa and
- Chippewa Indians

 - Little Traverse Bay Band of Odawa Indians

Mission

Protecting, enhancing, and promoting northwest Michigan's natural communities through terrestrial invasive plant management and outreach.

Serving Benzie, Grand Traverse, Leelanau, and Manistee counties

ISN Goals

- I) Raise awareness of high-priority invasive species in the region through education in order to cultivate long-term stewardship of our natural areas
- 2) Prevent introduction and spread of terrestrial invasive plants through outreach and collaboration with government officials and garden professionals
- 3) Survey region for high-priority terrestrial invasive plants to aid in effective prioritization and treatment strategies
- 4) Facilitate and assist with treatment of high-priority species on public and private land based on survey maps and prioritization strategies

Habitat Matters



For People



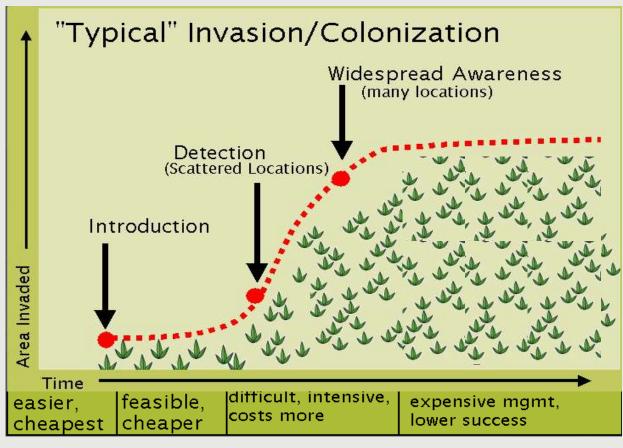
For Wildlife



For Northwest Michigan

What's Invasive?

Formal definition – a non-native species that harms people, the environment, or the economy.





Source: Michigan Natural Features Inventory

Environmental harm – a natural area consisting mostly of one or a combination of introduced plants that provide minimal habitat value.

Top 20 Least Wanted Species

- ➤ Developed by ISN Partners in October 2010
- Lists plants causing the most problems
- ➤ Half of the plants on the Top 20 still sold for landscape use



Focus 4: Japanese knotweed

Polygonum cuspidatum (Fallopia japonica)







Goals:

- Survey
- Develop effective regional treatment strategy
- Treat outlier populations

Traditional uses: food, medicine.

Notes:

- Native to Asia
 - Colonizes areas after lava flow
- Introduced as ornamental
- Illegal in Michigan

Problems:

- Displaces natives
- Difficult to control
 - Disposal problems
- Property damage

Focus 4: Garlic Mustard

Alliaria petiolata





Goals for ISN:

- Control in natural areas
- Educate public & encourage private land removal



Notes:

Native to Eurasia

Problems:

- Displaces natives
- Competes with tree seedlings
- Unpalatable to most native herbivores

Disposal Options:

- Find a use
- Trash
- Tarping

Traditional uses: food, papermaking, animal feed

Focus 4: Invasive *Phragmites*

Phragmites australis

Goals:

- Surveying
- Control populations
- Engage landowner groups& municipalities

Traditional uses: natural building, bioremediation

Notes:

Native to Europe

Problems:

- Displaces native plants
- Decreased property values
- Increased fire risk





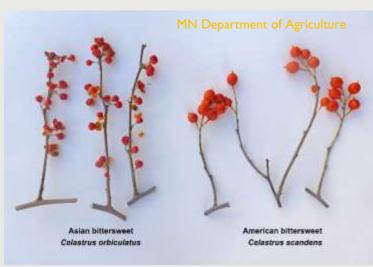




Focus 4: Oriental bittersweet

Celastrus orbiculatus





Goals:

- Survey
- Treat in natural areas

Traditional uses: native and introduced versions both used in fall crafts

Notes:

- Native to Asia
- Brought as ornamental

Problems:

- Out-competes native American bittersweet
- Shades out trees it climbs on





Current Programs

- Go Beyond Beauty—a voluntary program to remove invasive ornamentals from local nurseries' and landscapers' inventories
- Workbees—focused on garlic mustard, baby's breath, shrubs
- Control—high-priority species in high-quality habitats
 - Japanese knotweed, Oriental bittersweet, garlic mustard, invasive Phragmites
 - Ornamental invasives
 - Early Detection species
- Outreach—presentations
 - Value of habitat, threat of invasives
 - Local governments, garden clubs, Road Commissions, sportsmen's clubs, schools, etc.

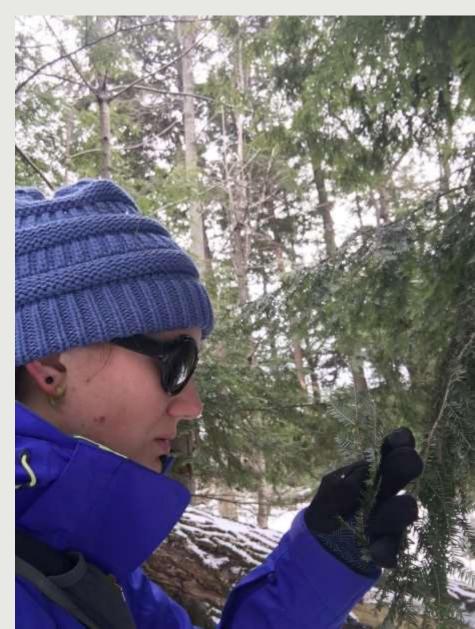




ISN Staffing Changes

- ISN Communication Specialist
 - Funding ran out October 2018 ☺
 - Hoping for future funding...

- ISN Invasive Species Specialist
 - New position! Welcome (back) Audrey Menninga!
 - Combined HWA tech & Crew Lead positions



Steering Committee Updates



Go Beyond Beauty

- Spring Meeting was held April 3rd presentation by Carolyn Thayer
- 2019 Japanese Barberry Trade-up Days
 - Grand Traverse and Benzie counties
- Achievement program introduced and now available to participants
 - Fee-based tiers
 - Program is still free at a basic level
- Current participation:
 - 8 nurseries
 - 15 landscapers
 - 21 other participants/businesses





Japanese Barberry Trade-up Days



Friday, June 7 – 2:00pm-6:00pm

Boardman River Nature Center

Saturday, June 22 – 2:00pm-6:00pm

Grow Benzie, Benzonia





Go Beyond Beauty - Achievement Program

BUSINESS OPTIONS - For nurseries and landscapers

*Free participation remains an option

Silver Achievement

- Participate in half-day, Basic Invasive Species EmployeeTraining
 - Can be held at business location OR Boardman River Nature Center(BRNC)
 - Single cost, regardless of number of employees
 - \$150.00 per business, when held at BRNC
 - \$300.00 per business, when held at your location
 - Fees are annual
- Receives "silver recognition" on outreach materials
- Signs include "silver achievement" label

Gold Achievement

- Participate in full-day, Intensive Invasive Species EmployeeTraining
 - Can be held at business location OR Boardman River Nature Center(BRNC)
 - Single cost, regardless of number of employees
 - \$200.00 per business, when held at BRNC
 - \$400.00 per business, when held at your location
 - Fees are annual
- Receives "gold recognition" on outreach materials
- Signs include "gold achievement" label

Sustaining Go Beyond Beauty Achievement

- Cost: \$200.00, annually
- ISN assures, and promotes accordingly, that your business does not sell/use invasive species via an annual site visit or audit, depending on business type
- Additional recognition will be placed on signage and outreach materials for businesses that choose to participate at this level

OTHER PARTICIPANTS

(Homeowner, garden club, other business, etc.)
*Free participation remains an option

Silver Achievement

- Cost: \$50.00/one time
- Receive a site-visit from an ISN employee to determine invasive species on site
 Approximately 30 minutes
- Receive a one-page explanation of plant species identified as well as recommended management
- Signs will include "silver achievement" label
- Additional website recognition and free outreach materials

Gold Achievement

- Cost: \$100.00/one time
- Receive a site-visit from an ISN employee to determine invasive species on site
 Approximately 45 minutes
- Receive a 2+ page explanation of plant species identified, management suggestions, AND native planting recommendations based on site conditions
- Signs will include "gold achievement" label
- Additional website recognition and free outreach materials

Champions of Go Beyond Beauty

- Businesses and individuals that commit to not selling and using invasive species beyond those on the high-priority list (2nd tier) will receive additional recognition. You will be listed separately in publicity and have your own "shout-out" slide during public presentations.



For more information:

www.HabitatMatters.org

GO BEYOND BEAUTY



Many invasive plants arrive in our area by way of gardens. Go Beyond Beauty by hiring landscapers that have committed not to use or sell high-threat invasive plants, such as the following:

Designs in Bloom



(231) 352-6962 | designsinbloom.biz

Grand Traverse Organic Landscapes



(231) 938-2626 | gtorganiclandscapes.com

Heritage Landscape Design

(231) 492-4128 | heritagelandscapedesigntc.com

Inhabitect, LLC



(231) 943-1434 | www.inhabitect.com

The Mossy Tree, LLC



(231) 499-5369 | mossytreegardens.com

Northwoods Landscaping

(231) 946-7378

Old Mission Associates



(231) 223-9222 | oldmissionlandscapes.com

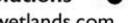
Silverman & Company

(231) 932-1925 | michiganlandscapearchitect.com

Sustainable Landscape Design, LLC

(231) 735-6972 | sustainable-landscape-design.com

Wildlife & Wetland Solutions



(231) 360-1203 | wildlifewetlands.com

Cre Woodard Garden Design



(231) 735-5300 | crewoodard.com

Laurel Voran, LLC



TruNorth Landscaping 1



(231) 922-0087 | trunorthlandscaping.com

Cyman Gardens

(231) 533-8960 | cymangardens.com

Pine Hill Landscaping

(231) 941-1808 | pinehill-nursery.com

MICHIGAN NATURAL SHORELINE PARTNER



New Project: Invasive Species Signs

POTENTIALLY INVASIVE

Buyer Beware! This plant has been proven to be highly invasive in some areas.



MYRTLE/COMMON PERIWINKLE (Vinca minor)

To learn more about alternatives to invasive ornamental plants and protecting our native habitats, visit HabitatMatters.org

NORTHWEST MICHIGAN INVASIVE SPECIES NETWORK

Protecting, enhancing, and promoting Northwest Michigan's natural communities through terrestria invasive plant management and outreach.

Key Facts:



Potential Problems

This ground cover can carpet the forest floor, crowding out other plants. It spreads from beds on forest edges and scraps in compost.



Native Imacts

Periwinkle in woods (far left) crowds out spring wildflowers like Trillium (near left), jack-in-the-pulpit, and spring beauty.



Alternatives to Explore

Canada anemone (left), wild ginger, and Canada mayflower are great native replacements for this plant. Don't be afraid to try a combination—the best native ground covers are mixed!

Native Plant Signs Spring Order

- Orders Due April 15!
- Nearly 300 species available!
- 7x5" printed on aluminum w/ UV coating & 30" stake
- <\$10 each (cheaper w/o stake)</p>
- Anticipated ready in early May
- OR ask for the species you want & we'll send you PDFs for free to print on your own





Bootbrush Stations

- Sign, station, brush, lumber, \$150 cost-share (\$300 value)
 - Space on sign for logo sticker
 - Need landscape fabric, gravel,
 concrete, installation
- Upgrade or mini-station: scrub brush, cable, & keeper (\$20)
 - Play Clean Go has smaller signs



Municipality Outreach

- Continued work with municipalities
- Presentations & Invasive Species Ordinance Requests
 - Bingham Township
 - Suttons Bay Township
 - Benzonia Township
 - Leelanau Township



Garlic Mustard Dumpsters Participants

- Benzie Lake Township
- Manistee Conservation District
- Leelanau Conservancy
- City of Frankfort



Municipality Outreach

Goals for 2019

- Continue contacting & presenting to municipalities in all 4 counties
 - Getting ordinances approved
- Contacting & presenting to other municipalities as possible
 - lake associations, etc.



2019 Workbees and Other Events

- Garlic Mustard
 - May 10 Grand Traverse
 - May II Benzie
 - May 17 Leelanau
 - May 18 Manistee
- Garlic Mustard Papermaking May 15
- Baby's Breath all summer, beginning May 30 in Elberta
- ID Trainings
 - June 3 Grand Traverse
 - June 4 Manistee
- Japanese Barberry Dumpster Days June 7 and 22
- Japanese Knotweed Workshops
 - July 9 Leelanau
 - July 10 Manistee

Visit www.HabitatMatters.org/events for more information!

Treatment & Survey Goals for 2019

Treatment: 1,000 Acres

- Invasive Ornamentals (medium to large scale populations)
- Satellite Sites
- Prevention-based Control
- Focus 4 & other High Priority Species
- Early Detection & Response
 Treatments (Swallow-wort!)

Survey: 3,000 Acres

- Assessing & Monitoring Treatment Sites
- Surveying New Areas for Invasive Species
- Site Visits to Private Properties
- Early Detection & Response
- Contact Audrey with Survey Ideas!



Treating swallow-wort in Kingsley.



Using an herbicide foamer for cut stump.

Field Season—Crew

- "Check-out" Crew
 - We're back!
 - "Check out" procedures will come out on the Google Group later this month
 - Focus on high-priority and ornamental invasive species
 - Surveys for rain days
 - Email Audrey with suggestions: amenninga@gtcd.org



Restoration for 2019

Planting Over 1,000 Seedlings Across ISN Service Area

- > Areas of previous treatment OR areas at high risk of invasion a "plus"
 - Generally high-quality sites that just need "help"
 - Includes tree tubes and stakes
- Waiting on additional funding for partner

projects

Species List:

Red Pine

White Oak

White Spruce

White Cedar Black Cherry Red-osier Dogwood Nannyberry Ninebark







HWA Survey Updates

Detection surveys

- "Bang for your buck"
 - Not a complete inventory of hemlock trees
- Targeting high-risk areas
- Looking at a "threshold" of trees per acre
- Prioritization Meeting (12/19/2018)
- Partner Training (2/21/2019)

2018-19 Survey Wrapping Up Now!

- Acres: 5,160
- Sites: 119 (37 different property owners/partners)
- Lots of COLD days!
- Questions:
 - How did this go with partners?
 - What would you like to see happen next year?













Coltsfoot (Tussilago farfara)







Butterbur

(Petasites hybridus)







Flowering rush

(Butomus umbellatus)







Scotch thistle

(Onopordum acanthium)







Himalayan blackberry

(Rubus armeniacus)







Slender false brome

(Brachypodium sylvaticum)







Wood bluegrass

(Poa nemoralis)







Woodland forget-me-not

(Myosotis sylvatica)







Yellow flag iris

(Iris pseudacorus)







Callery pear/Bradford pear

(Pyrus calleryana)



MISIN

www.misin.msu.edu

- Data Submission
 - Web
 - App (Apple & Android)
- Identification resources
 - Ipg (Species Information)
 - Training modules (Tools>>Training Modules)
- Treatment Tracking

Resources Reminder

- <u>HabitatMatters.org/other-information</u>
 - DecontaminationProtocols
 - Planting Guides (municipalities)
 - Print & Online resource lists
- MISC Forum
 (<u>forum.michiganinvasives.or</u>
 g/)



Other Information: Online and Printed Resources

Online Resources

While far from exhaustive, this list includes resources ISN utilizes regularly. Invasive Plant Resources

- Michigan DNR/DEQ/MDARD invasives website
- Decontamination guidelines & checklist from the Michigan DNR Forest Resources Division: Aquatic and Terrestrial
- USDA invasives website
- Midwest Invasive Plant Network (Including a Landscape Alternatives to Invasive Plants app and other tools)
- Suggested Alternatives to Invasive Plants from the Georgia Exotic Pest Plant Council—a bit south, but a great resource!
- Aquatic Invasive Plants and Their Look-Alikes PDF from the Midwest Invasive Plant Network
- Midwest Invasive Plant Network Control Database
- West Michigan Hemlock Woolly Adelgid Taskforce (SaveMIHemlocks) user-friendly information about this early detection invader

Native Plant Resources







Grants Update

Current Grants

Fully funded through April 2020 Strongly funded to Oct. 2020

- EPA GLRI 2016
 - Extension to September 2019!
 - Subgrants in progress
 - 2019 field crew
 - Restoration, treatments ongoing
- USFS 2018
 - Year I complete
 - Funded GM dumpsters, treatment
- GTBOI Subgrant
 - Funded crew member, treatments
 - Almost done!

- MISGP 2018 CISMA
 - Basic functions
- MISGP 2018 Project
 - 2020 Crew
 - Treatments, outreach, "leadership in IS work"
- Gerstacker 2018
 - Education integration efforts with GTCD
- TNC HWA subgrant
 - ½ done! HWA survey

Upcoming Grants

- USFS CWMA 2019 (submitted—pending)
- USFS Outreach 2019 (submitted—pending)
- MISGP 2019 (RFP due out soon)
- Others?





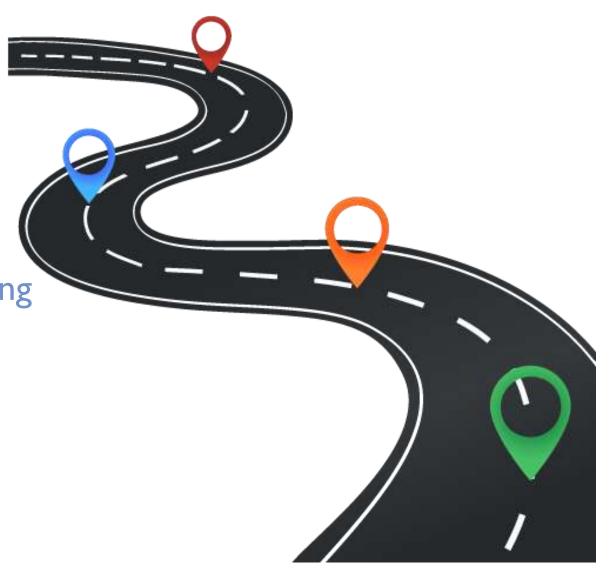


Funding Plan

- Draft complete!
- Finalize by March 2019
- Overview:
 - Pushing toward diverse funding
 - Identifies strategies
 - Grants
 - Cost-share
 - Fee-for-service
 - Active fundraising?

Strategic Plan

- Approved 2018!
 - On website
- Living document
 - Steering Committee will revisit
 & fine-tune one section per meeting
 - Updated on website annually
- Full update in 5 years



Species Prioritization: Revamp!

- $2010 \rightarrow 2020$; it's time to update!
- Species Assessments—in progress
- June Steering Committee Meeting discussion
- Focus Group work
 - Want in?
- Fall Partner Meeting feedback
- Fall/winter Steering Committee Meeting approval
- Roll out in 2020!

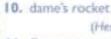


TOP 20 LEAST WANTED

SHRUBS: (Rhamnus cathartica) a (Frangula ainus) 5. Russian olive (Eloeognus ongustifolio) autumn olive (Elgeognus umbellato)

HERBACEOUS PLANTS:

- 7. baby's breath (Gypsophilo ponic
- 8. bull thistle (Cirsiam vulgare)
- 9. Canada thistle (Cirsium orvense



11. European swa



- 13. Japanese knotweed (Polygonum cuspidotum giant knotweed (P. sacholinense)
- 14. leafy spurge (Euphorbio esult)



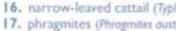








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19. reed canary grass (Pholom

20. wild parsnip (Pastinoce setty



Wanted for northwestern lower Michigan based on their collective experience ma 20 represent the greatest invasive plant threats to the region, the manag enerations to enjoy. Invasive species which did not make the Tab

Species Prioritization Revamp DISCUSSION

- What do we want (output)?
 - Straight list?
 - Categories (gardens vs. wetlands vs. etc. etc.)?
 - Other?
- Are there (non-native) species you want to see considered?

State-wide Updates

- Michigan Invasive Species Coalition
 - Core Team participation
- Play, Clean, Go
 - Eastern Expansion involvement
- MIPN & WIGL Collaborative
 - Board Participation
 - Collaborative Participation—app updates!



