

2019 Fall Partner Meeting

Protecting, enhancing, and promoting northwest Michigan's natural communities through terrestrial invasive plant management and outreach. <u>HabitatMatters.org</u>



ISN's History

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







Leelanau County Private Property Before and after, 2014 to 2019



Garfield Township
 City of Frankfort
 Benzie Long Lake Association
 Portage Lake Watershed Forever
 Michigan Audubon
 Neatawantah
 The Nature Conservancy
 Sleeping Bear Dune
 Grand Traverse Baa
 Ghippewa Indians
 Little Traverse Baa

Grand Traverse Band of Ottawa and
Chippewa Indians
Michigan Audubon
Little Traverse Bay Band of Odawa Indians



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

- 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

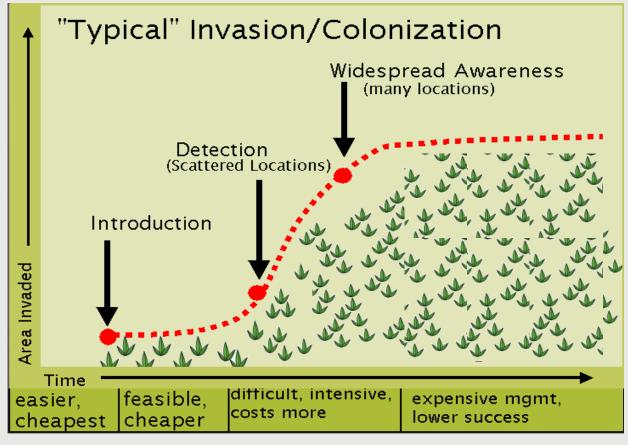
For Wildlife



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.



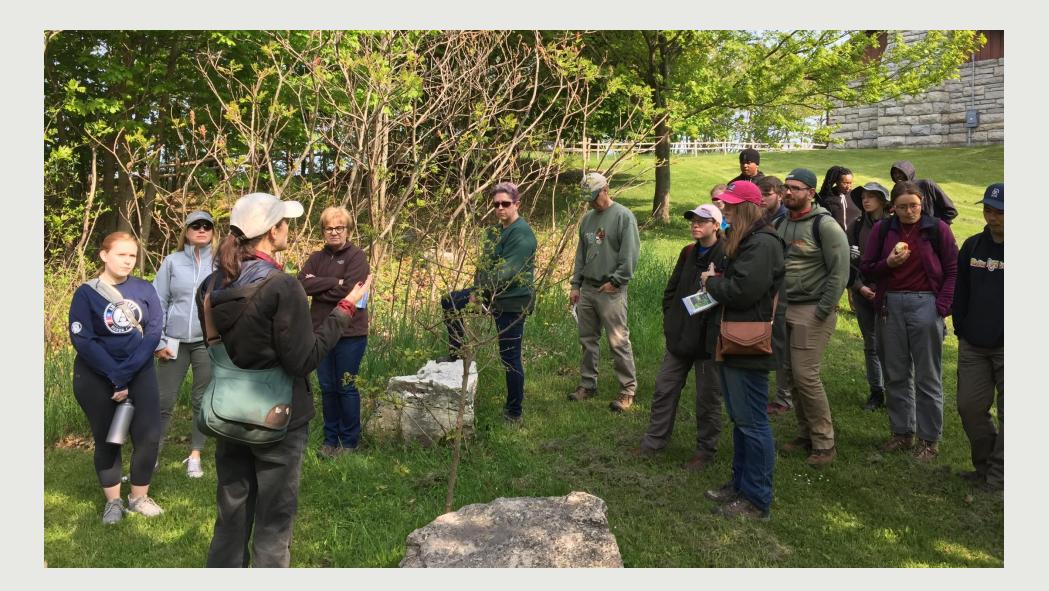
Current Programs

- 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
- Outreach—presentations
 - Value of habitat, threat of invasives
 - Local governments, garden clubs, Road Commissions, sportsmen's clubs, schools, etc.
- Survey & Control—high-priority species in high-quality habitats
 - Japanese knotweed, Oriental bittersweet, garlic mustard, invasive Phragmites
 - Ornamental invasives
 - Early Detection species





Steering Committee Updates











Outreach and Community Events Update

2019 Outreach Efforts and Coming up

- Garlic mustard workbees
- Baby's breath workbees
- Public presentations/ISN booth at events
- Go Beyond Beauty trainings/site visits
- Autumn Olive Workshops
- New resources created
 - Seed libraries
 - Door hangers
 - Future resources

Up next: Treatment videos, ID guide revamp, event plan for 2020







2020 Events

- Garlic mustard
- Baby's breath
- Japanese barberry trade-up
- Autumn olive
- What else can ISN provide to community/partners?

Bootbrush Stations

- Sign, station, brush, lumber, \$100 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



Go Beyond Beauty

- Spring Meeting was held April 3rd presentation by Carolyn Thayer
- 2019 Japanese Barberry Trade-up Days
 - Grand Traverse and Benzie counties
 - I 50+ plants returned
 - Different county next year
- Achievement program introduced and now available to participants
 - Fee-based tiers
 - Program is still free at a basic level
 - OLD MISSION ASSOCIATES Gold Level Achievement

What's next?







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 (2^{nd} 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

NORTHWEST MICHIGAN INVASIVE SPECIES NETWORK HabitatMatters.org

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

Cyman Gardens ₩

(231) 533-8960 | cymangardens.com Antrim County

Birdsfoot Native Nursery

(231) 313-6749 Grand Traverse County

Garden Goods W

(231) 933-4769 | gardengoodstc.com Grand Traverse County

Green Lake Gardens & Goods

(231) 276-6775 Grand Traverse County

Greystone Gardens 🖌

(231) 326-5855 Benzie County

Misty Ridge Greenhouse

(231) 885-2290 Wexford County/regional farmers markets

Northwoods Nursery

(231) 946-7378 Grand Traverse County

Pine Hill 💓

(231) 941-1808 | pinehill-nursery.com Grand Traverse and Antrim Counties



Benzie

GO BEYOND BEAUTY

NORTHWEST MICHIGAN INVASIVE SPECIES NETWORK HabitatMatters.org

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 | designs inbloom.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

KEY:

MICHIGAN NATURAL SHORELINE PARTNER 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 (231) 632-3211

TruNorth Landscaping (231) 922-0087 | trunorthlandscaping.com

Cyman Gardens (231) 533-8960 | cymangardens.com **Pine Hill Landscaping** (231) 941-1808 | pinehill-nursery.com





Field Season 2019!

- Over 250 sites treated
- 13 different species treated
- Over 1,000 acres total treated in service counties (manual and chemical)- ISN Crew, Workbees, and Contractors
- Only got rained out like...twice?
- Tried something new this year....PLANTING TREES
 - ISN Crew planted around 320 trees at Killingsworth Park!
- "Discovered" three new species
 - Chinese yam (Kingsley)
 - Japanese hedge parsley (Manistee)
 - Common Teasel (Traverse City)

Guest appearance by Sam Griffin of GTRLC fame!

Restoration for 2019

Planted Over 1,200 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"
- Provided Seedlings to Multiple Partner Projects:
 - Conservation Resource Alliance & SEEDS
 - Eastbay Township Parks & Rec
 - Filer Township Parks & Rec
 - Grand Traverse Regional Land Conservancy
 - GTCD Parklands & BRNC
 - Leelanau Conservation District

Species List:

Black CherryRed-osier DogwoodNannyberryWhite CedarNinebarkWhite OakRed PineWhite Spruce



Tree planting at Arcadia Marsh- Birthday Party?



Tree planting Work Bee at Magoon Creek

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HWA Updates

- Previous season (Jan. 2019-Apr. 2019)
 - 124 sites surveyed
 - Mostly public properties
 - 6,148.5 acres surveyed
- This season! (Jan. 2020-Apr. 2020)
 - Focusing on private properties
 - Made contact with 27 private property owners so far!
 - Google survey request form
 - Link on website
 - Some focus on high priority public property

(Disclaimer: I didn't make this smiley face! Nature did!!)



FUN ACTIVITY TIME!

Get in small groups!









Tree-of-heaven (Ailanthus altissima)

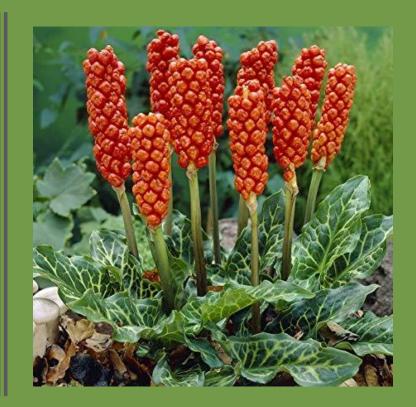




Chinese Yam (Dioscorea polystachya)







Italian arum (Arum italicum)







Common barberry (Berberis vulgaris)







Hardy kiwi (Actinidia arguta)



Photo Credit: Missouri Botanical Garder



Amur cork tree (Phellodendron amurense)







Sapphire berry (Symplocos paniculata)









Chinese silver grass (*Miscanthus sinensis*)







Japanese hedge-parsley (Torilis japonica)







Common teasel (Dipsacus fullonum)







Callery pear/Bradford pear (*Pyrus calleryana*)

Back to the Boring Stuff!



Mobile Data Collection



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

- Printed resources in back!
- <u>HabitatMatters.org/other-</u> information
 - Decontamination
 Protocols
 - Planting Guides (municipalities)
 - Print & Online resource lists
- MISC Forum (forum.michiganinvasives.or g/)



Othere Part Seens formation: Online systems Primited 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





MInvasives Join Michigan's Invasive Species Community



Grants Update Current Grants Fully funded through October 2020

- GTBOI Subgrant
 - Funds staff time, treatments
 - Almost done!
- USFS CWMA 2019
 - Staff time, treatments
 - Kicking in now!



- MISGP 2018 CISMA
 - Basic functions
- MISGP 2018 Project
 - 2020 Crew
 - Treatments, outreach, "leadership in IS work"
- Gerstacker 2018
 - Education integration efforts with GTCD
 - Wrapping up
- TNC HWA subgrant
 - $\frac{1}{2}$ done! HWA survey

Upcoming Grants

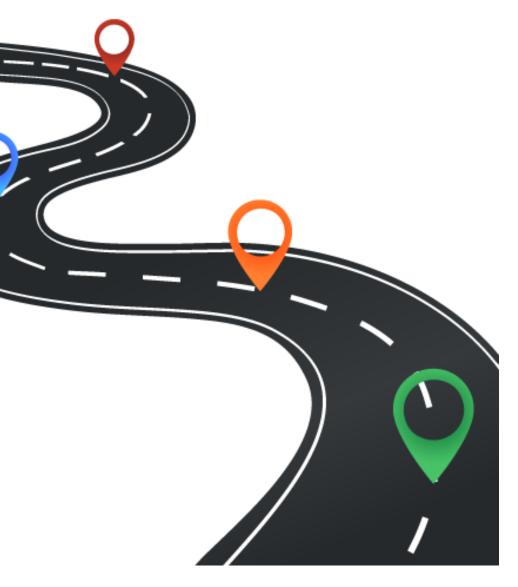
- MISGP 2019 (submitted x3! Hear back in January)
 - Partners also applied
- USFS CWMA 2020 (expected RFP December)
- Good Neighbor Authority funding (DNR/USFS)—in process?
- Others?





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!

Process

- $2010 \rightarrow 2020$; it's time to update!
- Species Assessments
- Focus Group work
- Fall Partner Meeting feedback
- Final Steering Committee Approval
- Roll out in 2020!

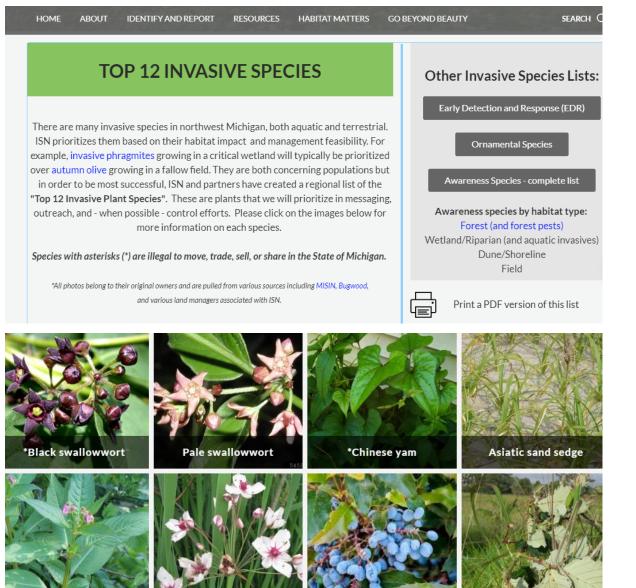
Goals

- Update
- More user-friendly for the public
- Incorporation of habitats?



Website and Resource Creation

- Website will have landing pages for each list of prioritized species
 - Top 12
 - EDR
 - Awareness Species
 - Ornamental (GBB)
- Resource pages will be stand-alone
 AND combined
 - T12 included with each additional list (EDR, Awareness)
- What format(s) would be most useful to partners?



Himalayan balsam

Flowering rush

*Oregon grape

*Himalayan blackberry

Species Prioritization Revamp DISCUSSION

NAISMA Notes:

Effects of Glyphosates (As talked about by Dan Wixted [Cornell Pesticide Mgmt Education Prgm] with assistance of IARC, and Dr. Anthony Hay [Cornell Dept of Microbiology])



Hazard vs Risk

Hazard is a yes or no question: YES glyphosates will cause cancer at some exposure rate for some amount of time. Risk: Hazard x Exposure. We can control these things to reduce our risk



NIH found no association between NHL or any other form of cancer



Highest level for no harmful effects: 1.75 mg/kg of body weight/day

This is still 100 times less than the calculated harmful effects



These tests are conducted on pure glyphosate—not any mixed herbicides



The known knows vs the unknowns unknowns

What do we not know to test for?



New invasives to look out for:

Italian arum (Lords & Ladies, Large Cuckoopint, Orange Candleflower)

hardy kiwi

Amur corktree

sapphireberry



common buckthorn: sap sucker (in progress)

phragmites: stem miner (released in Ontario, in US field tests)

Swallow-wort: leaf eating moth (released in Canada, in US field tests)

- Raised by several university labs including MSU
- Coincidentally, found a pathogen attacking swallow-wort, tests ongoing
 HWA: One is a beetle, one is a fly (released in NY)
- Doesn't eradicate, but does help control

Other Snapshots from NAISMA 2019

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!





PPLE JCE INVASIVE PLANT ESCAPES

MIPN.org

Partner Updates!

2 minutes each, please