

Forum : Pesticide Usage in your Community:

Protecting the Environment and Human Health through Integrated Pest Management

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Five of the Least-Wanted invasive Plants in Northwest Michigan

Contact the CAKE CISMA for **No-Cost** Consulting and Control in 2021
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Black Swallow-wort is known to invade stream banks, forests, and flowerbeds. It creates thick monoculture mounds of vines that inundate native and cultivated plants. It is toxic to animals and spreads by releasing airborne seeds from pods and by its rhizomes. Remove the pods before they ripen and open in late summer. Cutting and pulling are not effective for its removal and control usually requires use of an appropriate herbicide.



Knotweeds can produce extremely large, dense, intrusive stands of stems that grow overhead and crowd out other vegetation. The root systems of established stands can be 10 ft. deep and rhizomes can penetrate foundations and driveways. Knotweed is resilient and usually requires repeated herbicide treatments over several years to bring it under control.



Oriental Bittersweet kills trees and other vegetation by encircling them with climbing vines that grow thicker and become woody. It is usually found in wooded areas and can be controlled by a combination of cutting and the careful application of herbicides.



Invasive Phragmites grows into tall, dense stands on shores and wetlands that reduces plant diversity, impairs wildlife habitat and degrades the recreational value of wetlands. It has been largely brought under control in Northern Michigan, but requires continued monitoring since its seeds can be spread by water currents, birds, and humans.



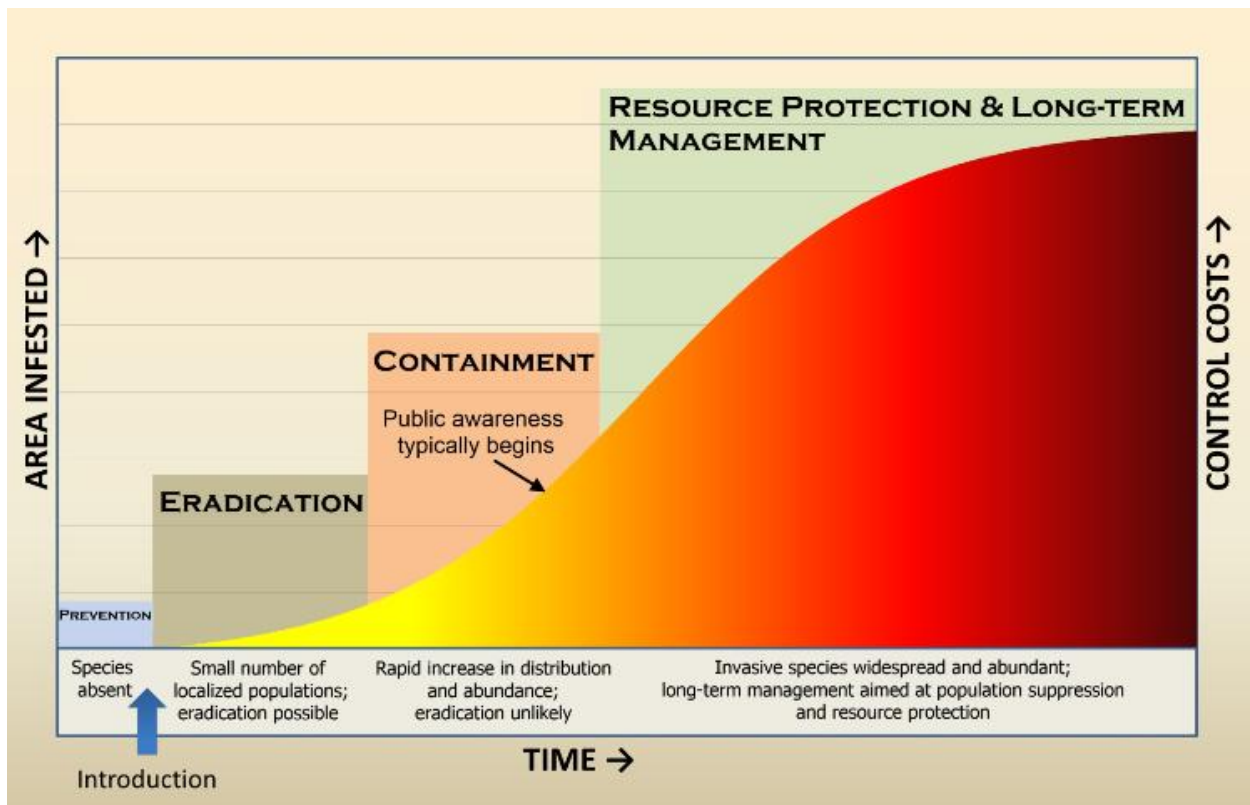
Purple Loosestrife is a plant whose pretty pink blooms are deceiving. It is typically found along the shores of lakes and streams and in marshes, resulting in dense monoculture stands that impair wildlife habitat and reduce property values. Large infestations can be controlled with the release of a beetle species that feeds exclusively on purple loosestrife.



CAKE-CISMA Invasive Species Priority List

Common Name	Scientific Name	Habitat
Tier 1/EDR		
Pale Swallow-wort	<i>Cynanchum rossicum</i>	Terrestrial
Black swallow-wort*	<i>Cynanchum louisieae</i>	Terrestrial
Giant hogweed	<i>Heracleum mantegazzianum</i>	Terrestrial
Hydrilla	<i>Hydrilla verticellata</i>	Aquatic
European frogbit	<i>Hydrocharis morsus-ranae</i>	Aquatic
Lyme grass	<i>Leymus arinareus</i>	Terrestrial
Japanese honeysuckle	<i>Lonicera japonica</i>	Terrestrial
Japanese stiltgrass	<i>Microstegium vimineum</i>	Terrestrial
Spiny naiad	<i>Najas marina</i>	Aquatic
Mile-a-minute weed	<i>Persicaria perfoliata</i>	Terrestrial
Kudzu	<i>Pueraria montana var. lobata</i>	Terrestrial
Tier 2/Priority Species		
Garlic mustard*	<i>Alliaria petiolaria</i>	Terrestrial
Flowering rush	<i>Butomus umbellatus</i>	Wetland
Knotweeds*	<i>Fallopia spp.</i>	Terrestrial
Baby's breath*	<i>Gypsophila paniculata</i>	Terrestrial
Starry stonewort	<i>Nitellopsis obtusa</i>	Aquatic
Invasive Phragmites*	<i>Phragmites australis ssp. australis</i>	Wetland
Tier 3		
Barberries*	<i>Berberis thunbergii</i>	Terrestrial
Oriental bittersweet*	<i>Celastrus orbiculatus</i>	Terrestrial
Russian/Autumn olive*	<i>Elaeagnus spp.</i>	Terrestrial
Purple loosestrife*	<i>Lythrum salicarium</i>	Wetland
Eurasian watermilfoil*	<i>Myriophyllum spicatum</i>	Aquatic
Wild parsnip*	<i>Pastinaca sativa</i>	Terrestrial/Wetland
Invasive buckthorns*	<i>Rhamnus spp.</i>	Terrestrial/Wetland
Tier 4		
Spotted knapweed*	<i>Centaurea stoebe</i>	Terrestrial
Canada thistle*	<i>Cirsium arvense</i>	Terrestrial
European swamp thistle*	<i>Cirsium palustre</i>	Terrestrial/Wetland
Bull Thistle*	<i>Cirsium vulgare</i>	Terrestrial
Bush honeysuckle*	<i>Lonicera spp.</i>	Terrestrial
Scots pine*	<i>Pinus sylvestris</i>	Terrestrial
Multiflora rose*	<i>Rosa multiflora</i>	Terrestrial
Bladder Campion*	<i>Silene vulgaris</i>	Terrestrial
Bittersweet nightshade*	<i>Solanum dulcamara</i>	Terrestrial
Periwinkle*	<i>Vinca major</i>	Terrestrial

* Denotes species present in the CAKE service area. Priority invertebrate species not on this list include hemlock woolly adelgid and New Zealand mudsnail.

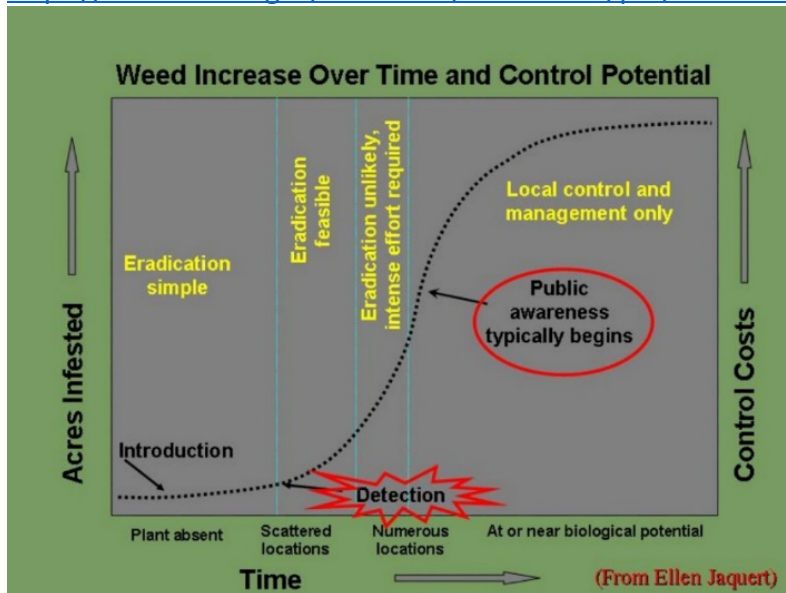


- Little Traverse Conservancy Contacts
 Email: Derek@landtrust.org or Amy@landtrust.org for questions related to pesticide use or other stewardship activities on LTC properties.
 For general questions email LTC@landtrust.org or call 231-347-0991 and someone will direct you to the correct person to answer your questions.
 Our website is landtrust.org

Pesticide Informational Resources

Invasive Species Impact

<https://www.dnr.sc.gov/education/Envirothon/pdf/2016CostofInvasives.pdf>



<https://blog.nature.org/science/2019/03/05/recovery-how-herbicides-can-save-fish-and-wildlife/>

Glyphosate Specific

<https://forestinfo.ca/faqs/how-long-does-glyphosate-remain-in-the-soil-water-plants-and-sediments-after-treatment/>

<https://www.epa.gov/pesticides/epa-takes-next-step-review-process-herbicide-glyphosate-reaffirms-no-risk-public-health>

<https://pubmed.ncbi.nlm.nih.gov/29136183/>

Treating Invasive Species Information

<https://www.mipn.org/>

<https://www.misin.msu.edu/>

Start at 15:20, end at 47 minutes. Presentation from City of Ann Arbor Conservation Specialist on their IPM program with good background on IMP principles https://www.youtube.com/watch?v=yY2pxXs_T0g&ab_channel=TheStewardshipNetwork

Michigan Pesticide Regulation

<https://www.michigan.gov/mdard/licensing/pesticide/pesticide-applicator-certification/certprocess/pesticide-application-certification-details-faq##one#>

- Erin Lizotte

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The National Pesticide Information Center is a thorough, reputable site. They have community specific info at <http://npic.orst.edu/health/comm.html>

- Lauren Day, Tip of the Mitt watershed coordinator
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<https://www.watershedcouncil.org/aquatic-invasive-species.html>

- Daniel J. Bissonette
Dan's Green Side Up
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W. www.dansgreensideup.com

These links are provided as Pest Management Resources.

- 1) [Pesticide Label Database](#) - It all starts with the label. The Label is the Law.
- 2) [Michigan Department of Agriculture & Rural Development Pesticide Division](#)
- 3) [College of Agriculture & Natural Resources](#)
- 4) [Risk Benefit Information for Pesticide Applications](#) (attached as PDF)
- 5) [Michigan Turfgrass Environmental Stewardship Program](#)