

Alien Invaders

Battling Invasive Species in Michigan and Beyond

© Andy Morrison



What is The Nature Conservancy?

- Our mission is "to **preserve** the plants, animals and natural communities that represent the **diversity** of life on Earth by protecting the **lands** and **waters** they need to **survive**."
- Since 1951, we've been working with communities, businesses and people like you to protect more than **117 million acres** around the world.

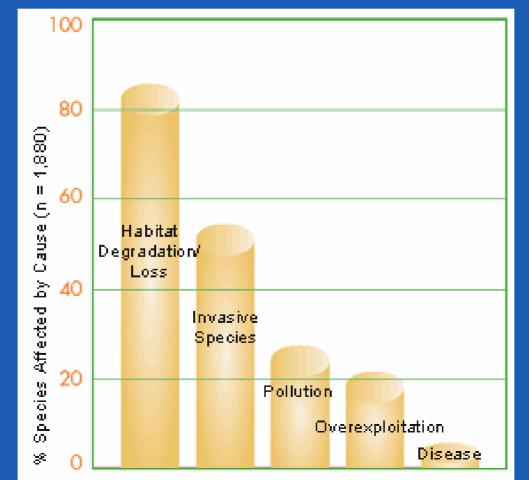


What are alien and invasive species?

- Alien species means, with respect to a particular ecosystem, any species—including its seeds, eggs, spores, or other biological material capable of propagating that species—that is not native to that ecosystem.
- Invasive species are alien species that spread and cause, or are likely to cause, economic or environmental harm or harm to human health. Some native species can also become problems when their natural "controls" are eliminated and they spread into areas where they aren't wanted.



Why should you care about invasives?



Threats to Biodiversity

Source: *Precious Heritage:*The Status of Biodiversity in
the United States © The Nature
Conservancy and NatureServe



Categories of Invasive Species

- Plants
- Aquatic animals
- Pests and pathogens of plants
- Animals
- Diseases of animals



Plants: Kudzu







What are the WOrst threats in Michigan?



Garlic Mustard (Alliaria petiolata)





Garlic Mustard (Alliaria





Glossy Buckthorn (Rhamnus frangula)





Spotted Knapweed (Centaurea maculosa)





Spotted Knapweed (Centaurea maculosa)





Purple Loosestrife (Lythrum salicaria)



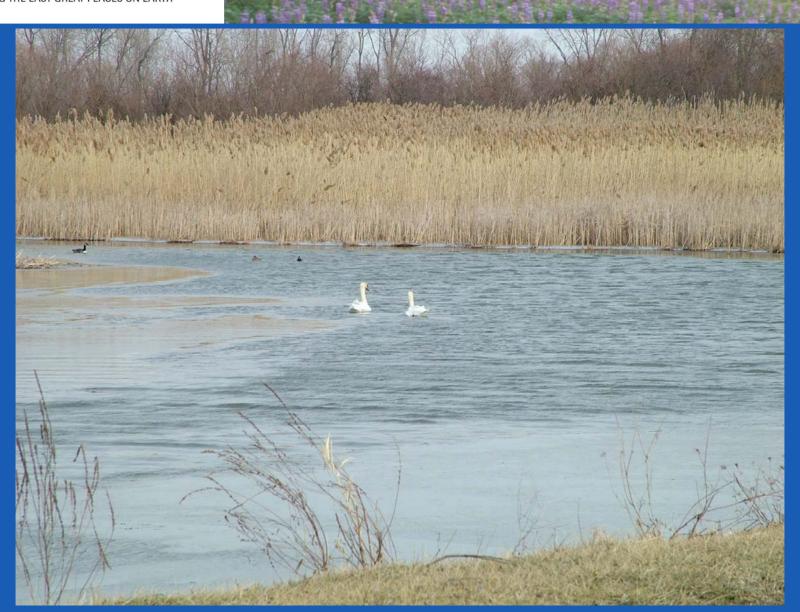


Eurasian water-milfoil and Hydrilla





Common Reed (Phragmites australis)







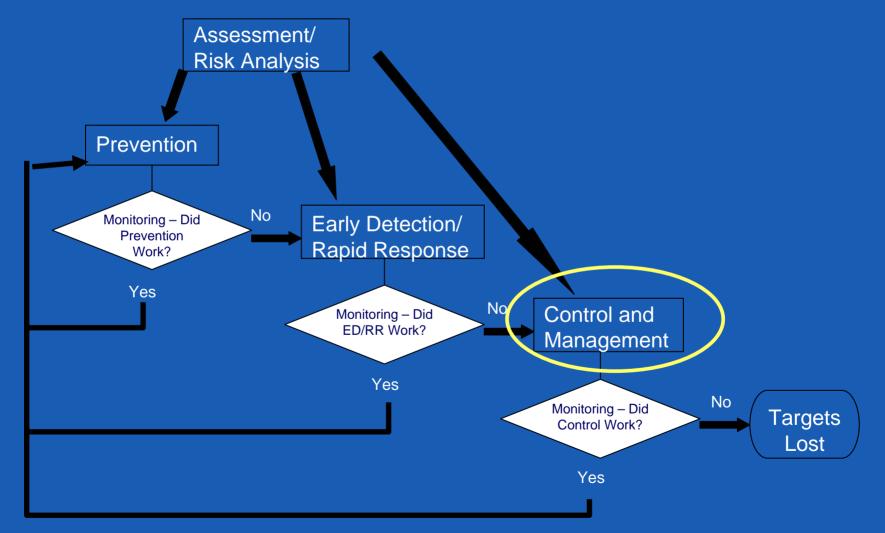
What are we doing about invasives?

- Assessment and Risk Analysis
- Prevention
- •Early
 Detection and
 Rapid
 Response
- Control and











Control and Management: Glossy Buckthorn













Control and Management: Phragmites







Phragmites at Erie Marsh

Prescribed fires





More information

