

A Fire Managers Approach to Invasive Species

Cooperate

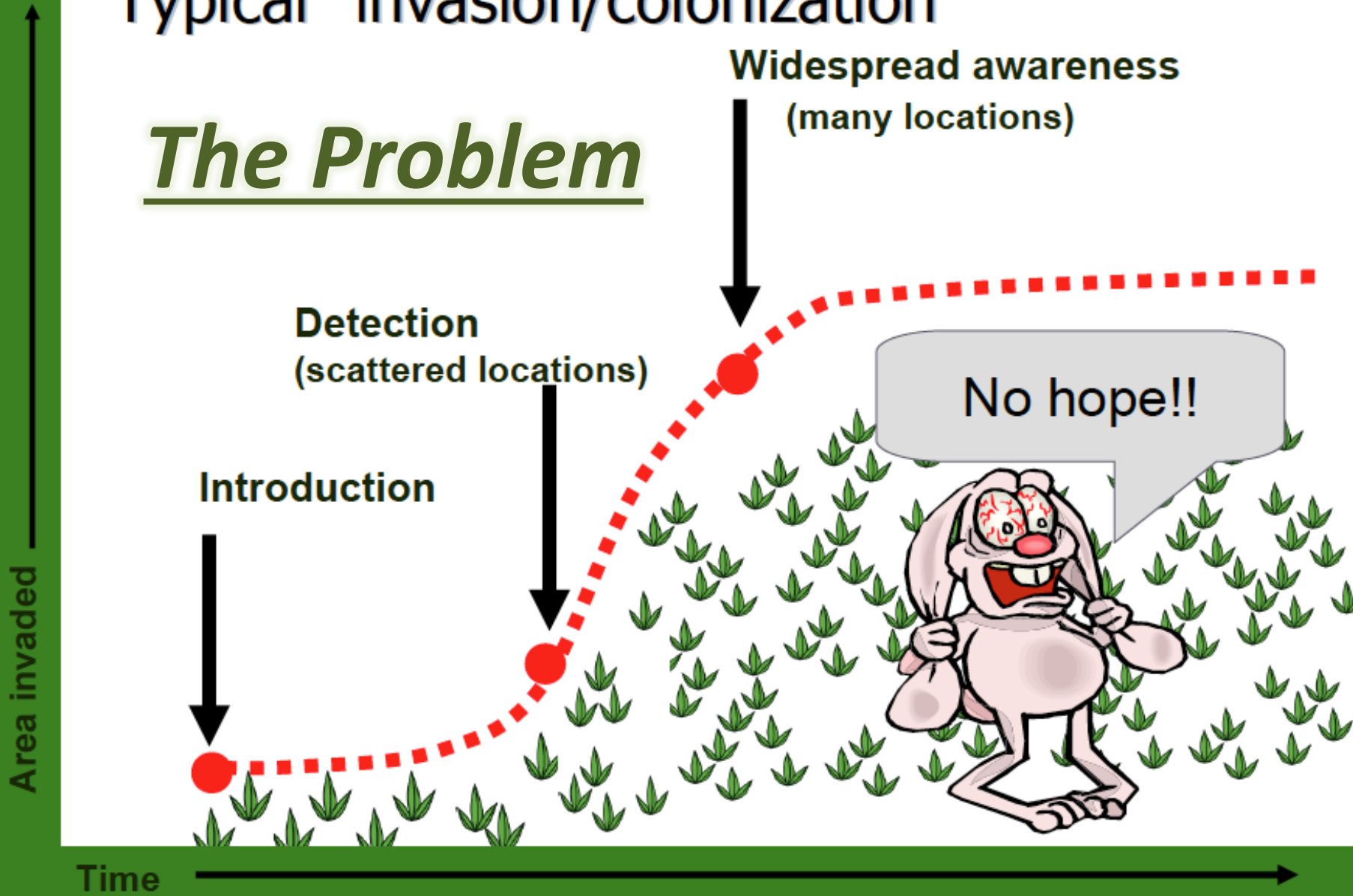
Coordinate

Collaborate



"Typical" invasion/colonization

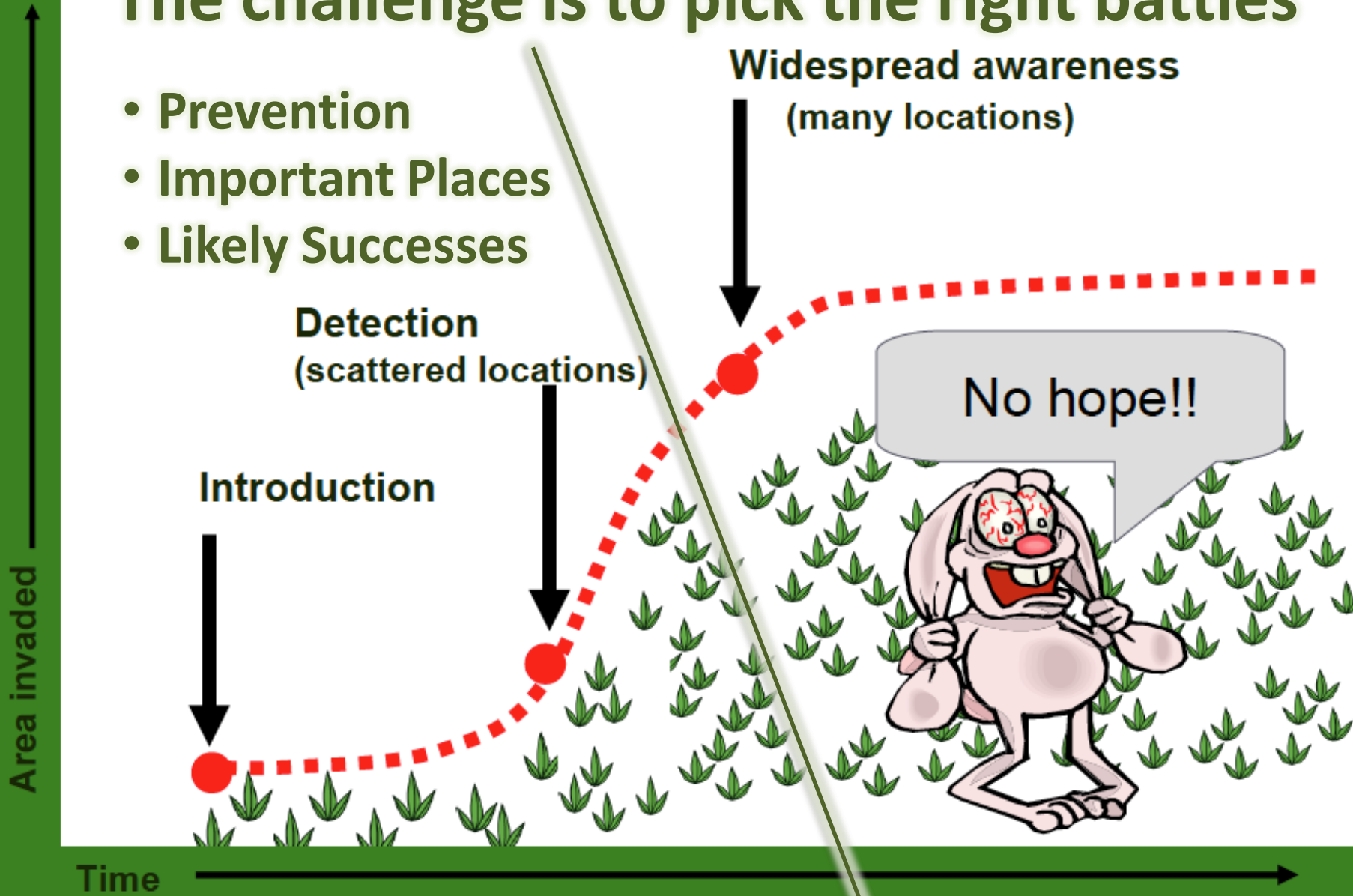
The Problem



easier, cheapest	feasible, cheaper	difficult, intensive, costs more	expensive mgmt. lower success
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The challenge is to pick the right battles

- Prevention
- Important Places
- Likely Successes



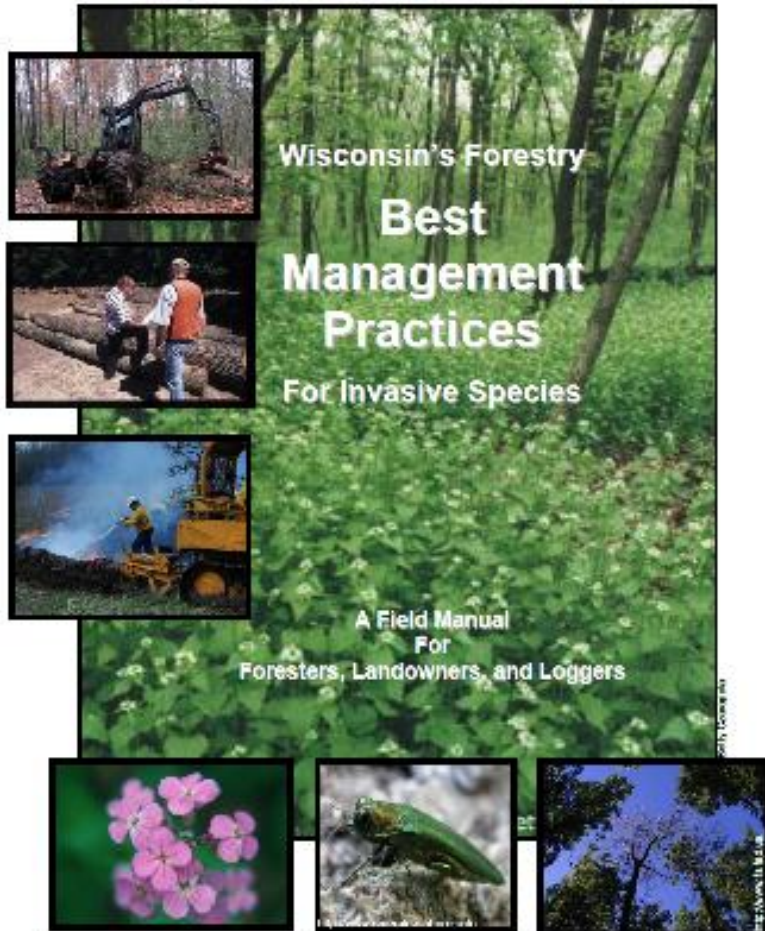
Prevention, Early Detection, Rapid Response

expensive mgmt.
lower success

Fire Management Practices for Invasive Species Management

- Incorporate invasive species awareness, identification, and prevention education into **annual fire training**
- Insure that **prescribed fire practices** are planned and implemented to limit spread of invasive populations
- Mitigate potential for spread of invasive species from **wildfire suppression operations.**

Wisconsin Forestry Best Management Practices for Invasive Species



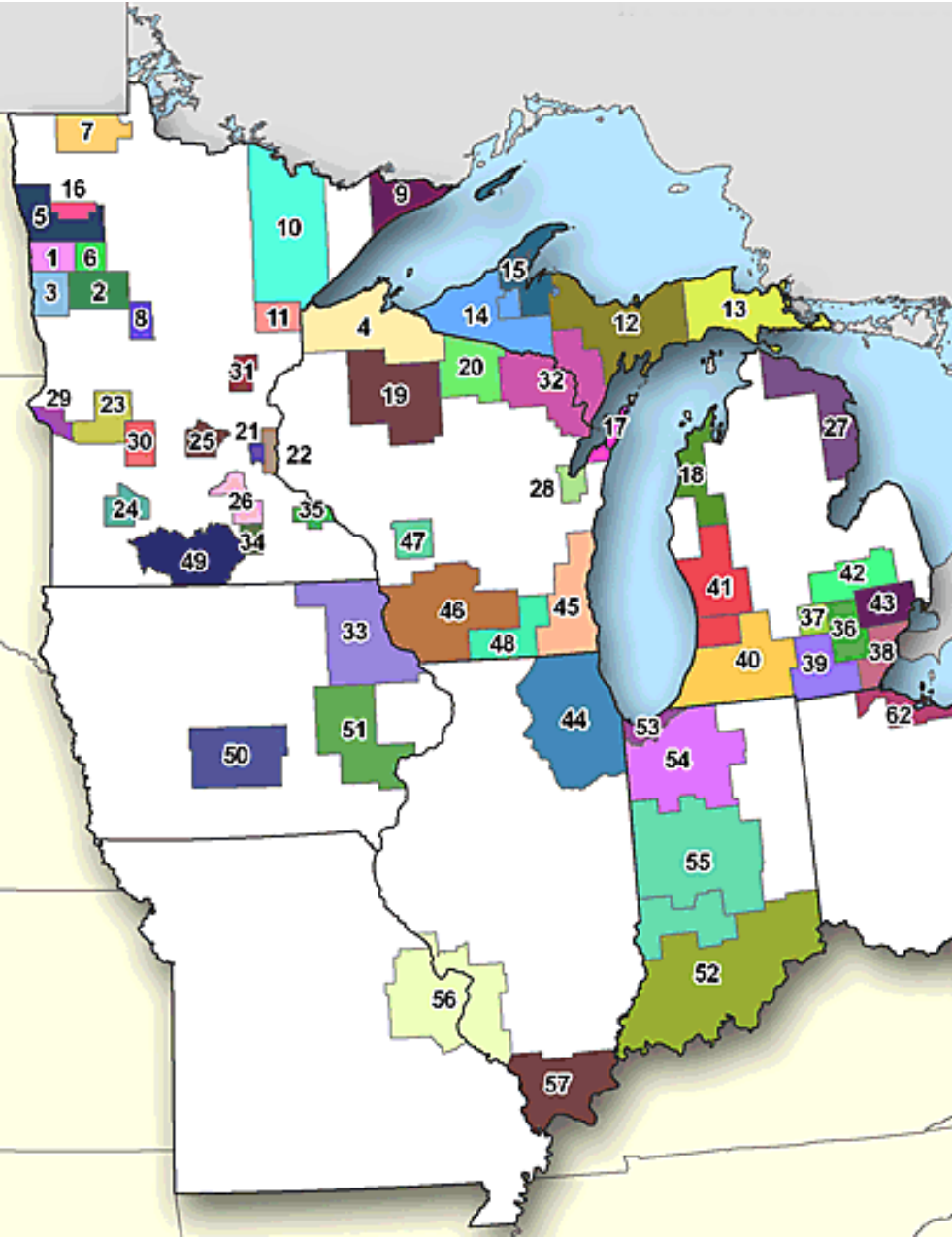
- Use Pre-Fire, Pre-Incident Training Opportunities each year to engage firefighters with the issue of invasive species management and updates to problems in local areas. Consider:
 - Cooperator Meetings
 - Spring Refresher Sessions
 - Staff Meetings & Advanced Training

Pre-Fire Training Talking Points

- Include your local invasives experts and ask them to help
- Identify local infestations before you have fires in the area
- Provide plant identification resources to those who need them
- Share equipment cleaning protocols and briefing points for incoming resources
- Follow-up assessments after fires are controlled.



Local Expertise is Available



- Identify your local experts and ask them to help:
 - State and Federal Resource Agencies
 - Natural Resources Conservation Service
 - Cooperative Weed Management Areas
- Ask for their help with training, identification of infestations, and burn site assessment



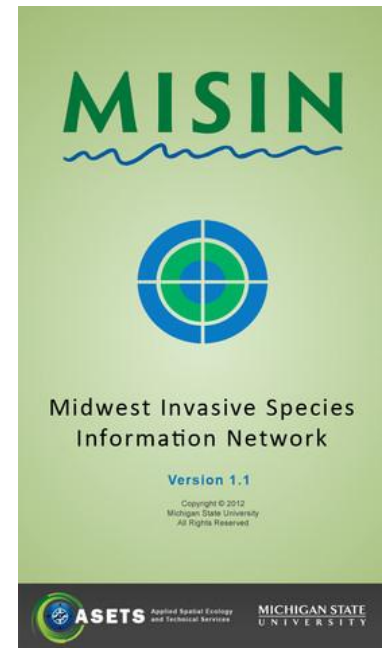
Online ID, Reporting, Mapping Resources

- **Use what's recommended in your area**
- Great Lakes Early Detection Network (GLEDN)
- Midwest Invasive Plant Network (MIPN)
- Early Detection & Distribution Mapping System (EDDMapS)
- Midwest Invasive Species Information Network (MISIN)

Android App



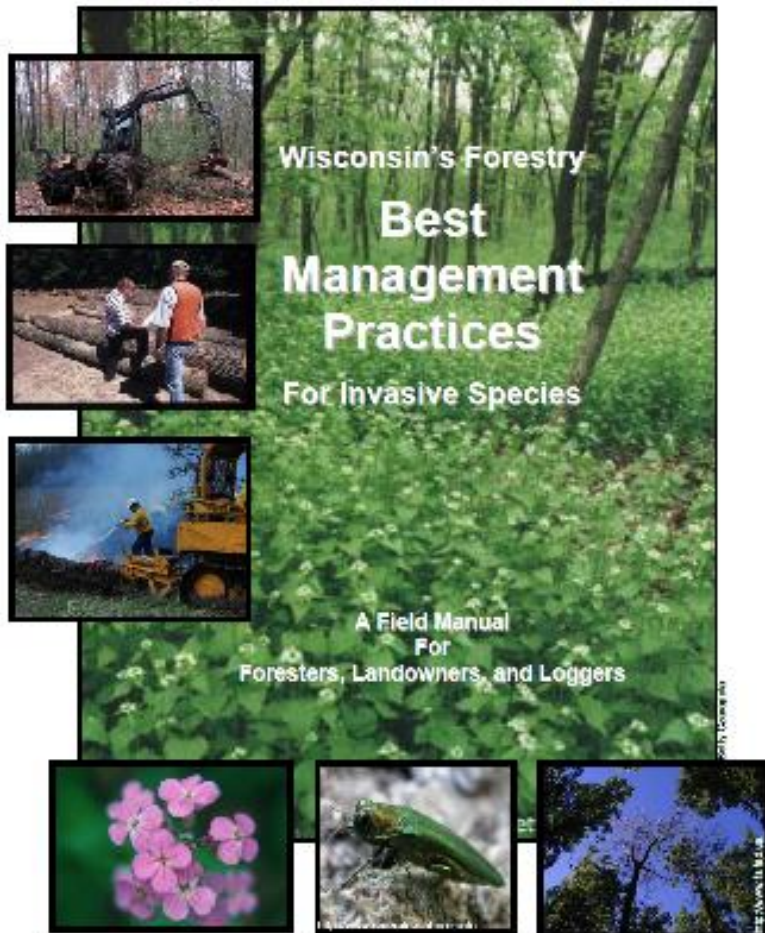
iPhone App



EDDMapS
Early Detection & Distribution Mapping System


MIPN.org
Midwest Invasive Plant Network

Wisconsin Forestry Best Management Practices for Invasive Species

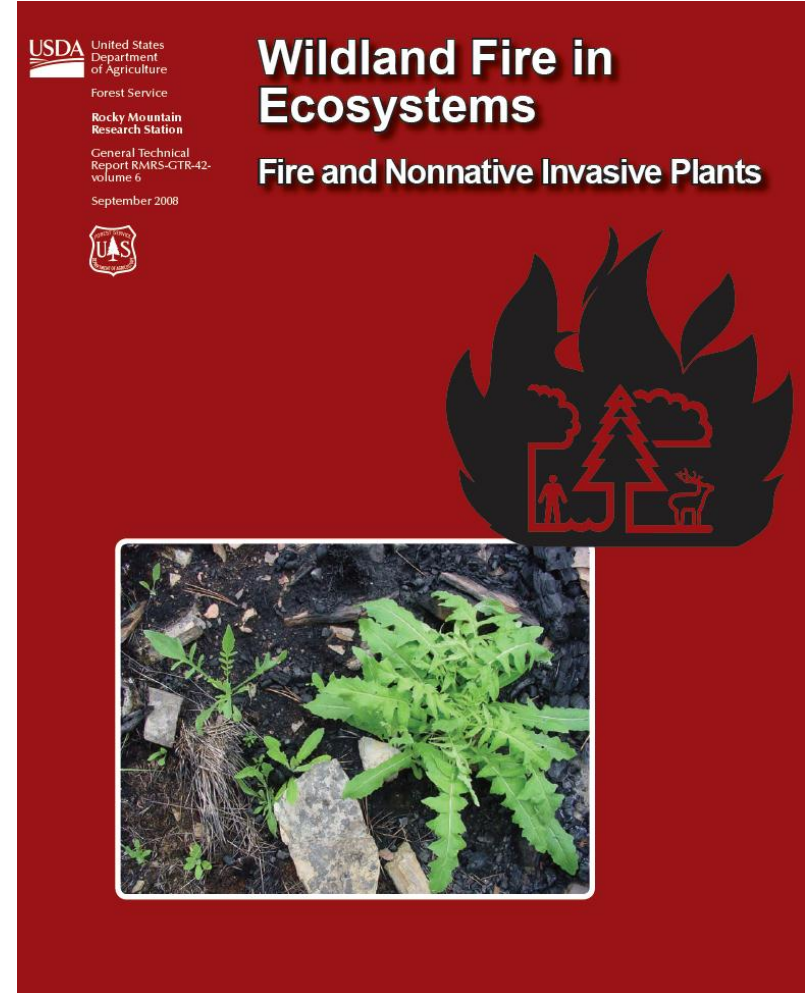


Prescribed Fire Practices

- Avoid placing fire breaks through infestations of invasive species
- Incorporate invasive species considerations into the planning of prescribed burns
- Avoid spreading invasive seeds and other propagules from infested to non-infested areas during prescribed fire activities
- Following prescribed burn, rehabilitate soil disturbances related to burn activities where invasive species establishment is likely.

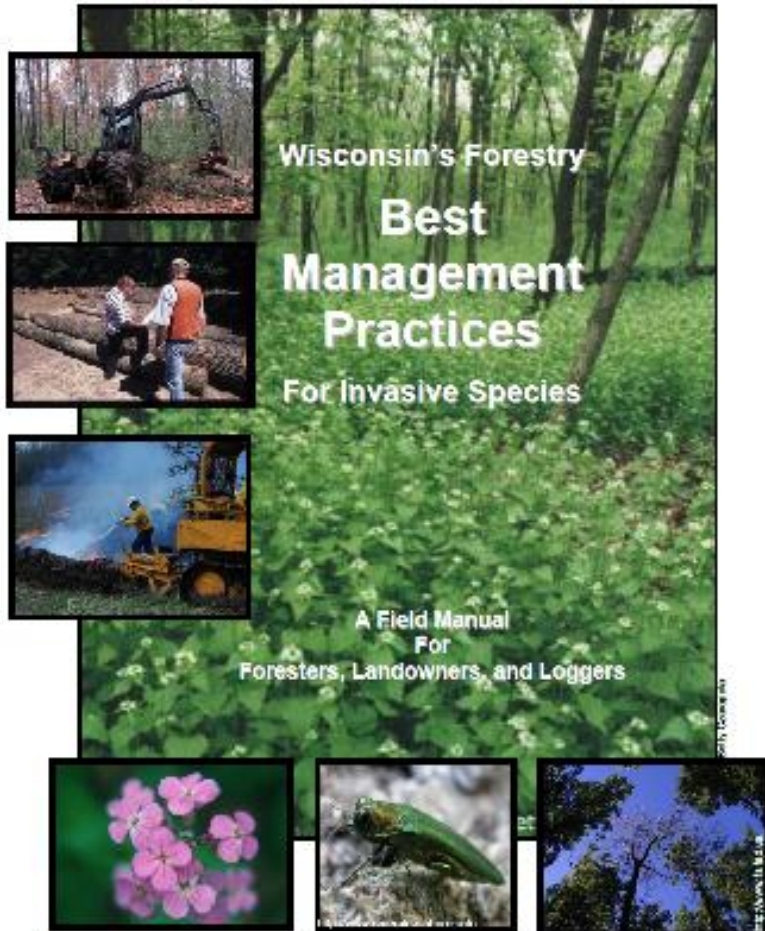
Consider The Biology & Ecology of Invasives

- Can prescribed fire be part of an integrated approach to control?
- Are there prescription windows that are better or worse for the invasive in question?
- Does the infestation impact the desired fire effects or the success of the fire use practice proposed?
- Design treatments and activities with these factors in mind.



Consult the Fire Effects Information System
(<http://www.fs.fed.us/database/feis/>)

Wisconsin Forestry Best Management Practices for Invasive Species



Wildfire Suppression

- When possible, avoid infestations when constructing fire lines
- Avoid spreading invasive seeds and other propagules from infested to non-infested areas during fire fighting activities
- Following a wildfire, rehabilitate soil disturbances related to suppression activities where invasive species establishment is likely.

Can You Help Prevent Spread of Weeds?

- Are you expected to clean vehicles after working in infested areas?
- Do you brief incoming and departing crews about invasives they may encounter and carry home?
- Can you get help with fire site mitigations?



Lake States Fire Science Consortium

A JFSP KNOWLEDGE EXCHANGE CONSORTIUM



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Fire Use & Fuels Management - Fire and Invasive Plant Species

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Best Management Practices

[Michigan Department of Natural Resources, Michigan Natural Features Inventory Best Control Practice Guides](#)

[Minnesota Department of Natural Resources, Invasive Species](#)

[Wisconsin Department of Natural Resources, Forestry Best Management Practices for Invasive Species](#)

Invasive Plant Species Contacts

Michigan

[Upper Peninsula, Cooperative Weed Management Areas](#)

[Southern Lower Peninsula, The Stewardship Network Clusters](#)

[Minnesota, Terrestrial Invasive Species Contacts](#)

[Wisconsin Regional and County Weed Groups](#)

Fire Use & Fuels Management Research in the Lake States

[Managing Fuels and Forest Structure in the Southern Boreal Forest on Minnesota's National Forests](#)

[Evaluation of Three Fuel Management Treatments for Eastern White Pine](#)

[Integrating Fuels Reduction and Pine Barrens Restoration in Endangered Kirtlands Warbler Habitat Management](#)

Questions?



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