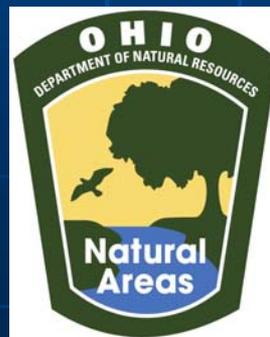


# Mapping Invasive Plants in Ohio

Tom Arbour

Ohio Department of Natural Resources  
Division of Natural Areas & Preserves  
Ohio Natural Heritage Program

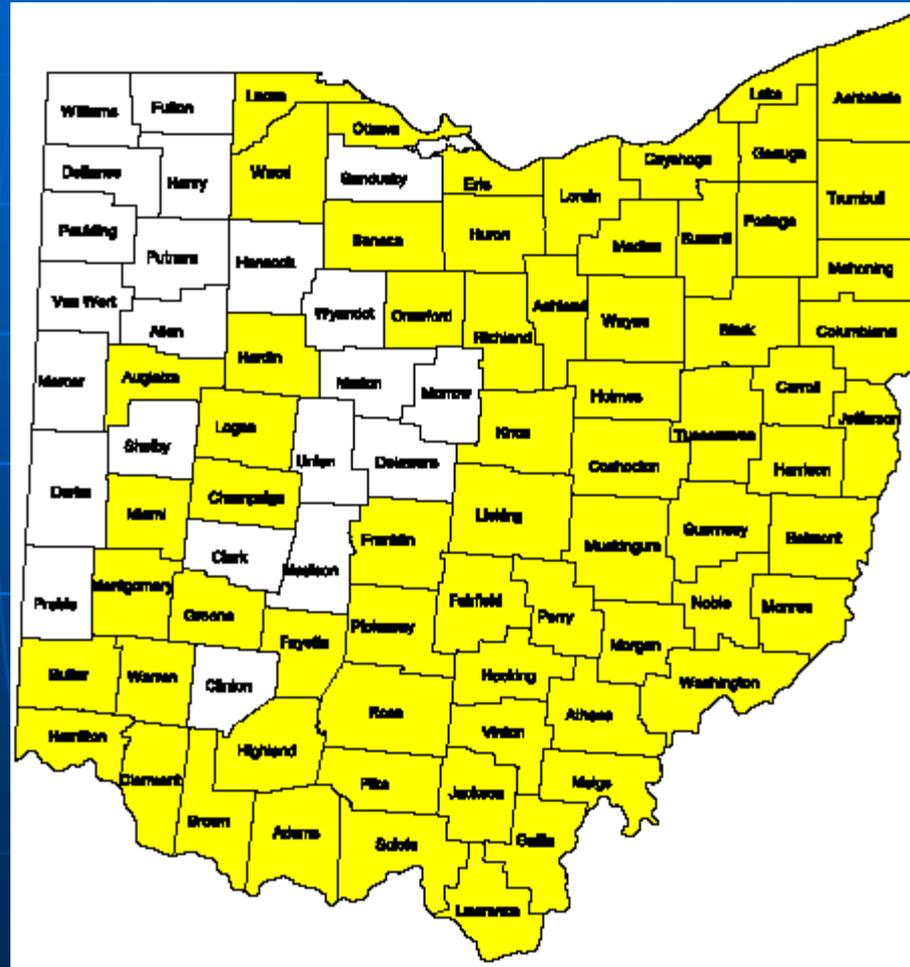


- Currently, there is no ongoing, collaborative and/or comprehensive statewide effort to map invasive plants in Ohio.
- Individual land management agencies do map invasive plants using various protocols, techniques, and intensity levels.

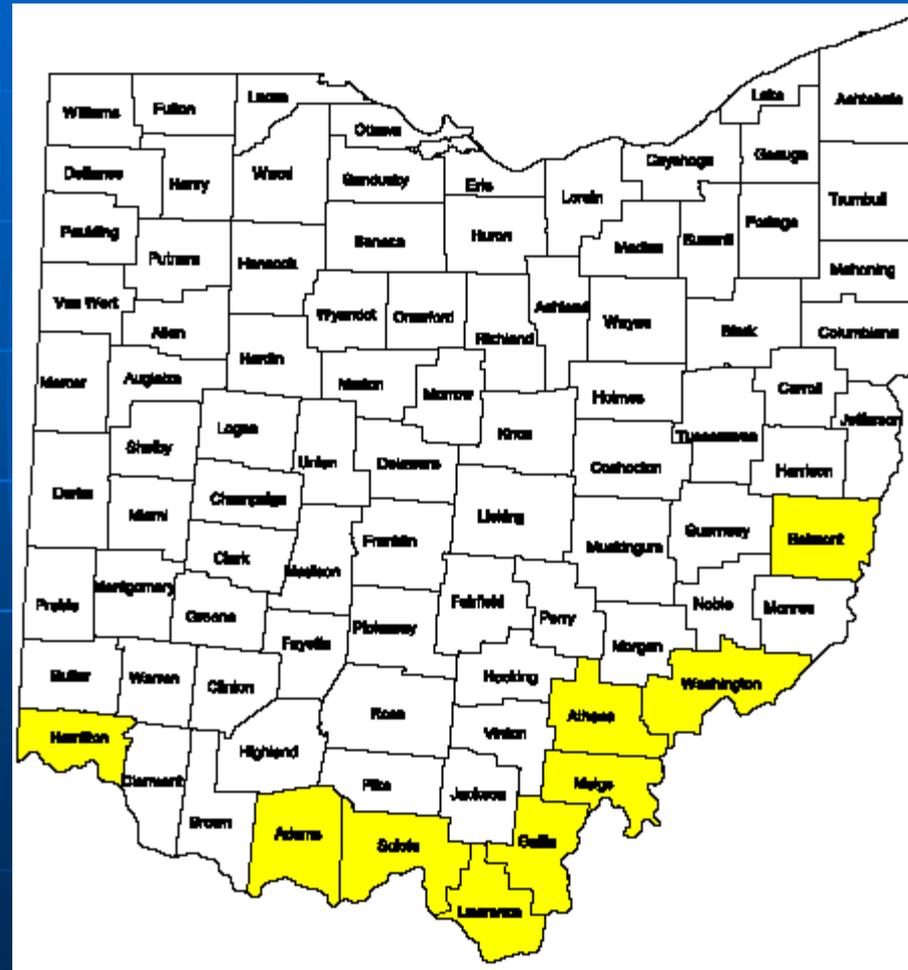
# What Maps Does Ohio Have?

- Static county level maps from herbarium specimens online at the TNC Ohio chapter website.
- Compiled R. Gardner & J. Hillmer, The Nature Conservancy, Ohio Chapter, Last Update: 2004
- 65 species mapped

# Japanese Honeysuckle (*Lonicera japonica*)



# Kudzu (*Pueraria lobata*)



# Groups Currently Mapping Invasive Plants

- Cleveland Museum of Natural History (4000 acres)
- Metroparks Serving Summit County (9000 acres)
- The Holden Arboretum (3500 acres)
- Ottawa National Wildlife Refuge (8000 acres)
- ODNR Division of Natural Areas and Preserves (15,000 acres)

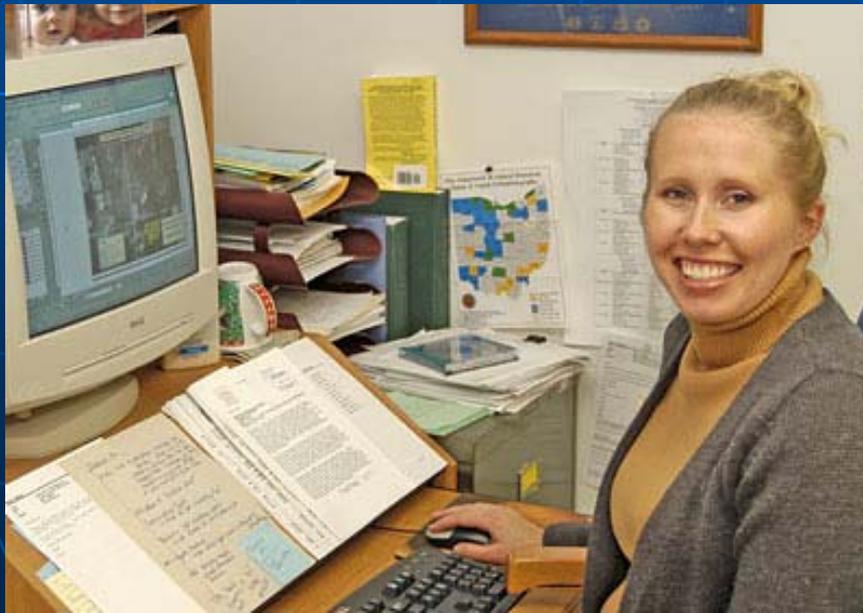
# What is the ODNR Natural Areas and Preserves Doing?

- Managing for invasive plants on 130 State Nature Preserves
- Mapping locations of invasive plants when herbicide is applied
- Field manager fills out form is filled out after herbicide treatment.



# Eco-management Database

- Information from form is entered into eco-management database.
- Not a GIS, but each record ( $\sim 3200$ ) can be linked to a specific nature preserve.



# Data Sharing

- “I would make my data available to anyone who wanted it, but I don’t know who does”
- “We don't share our info with anyone, mainly because no one is interested”

# Gaps

- Data isn't being shared at a state wide level but there is currently no organizational structure to share data.
- "How can information be easily contributed and accessed, and to what purpose?"
- "Funding and time are big constraints for our agency with limited funds."
- Prioritization: Which species are most important to map, along with where: "High quality sites, early detection species, pathways of spread, commercially important species"
- "Who will manage the information? Who will maintain the vouchers?"

# Needs

- “Consistently collected data from across the state, available in an easy-to-use online database.”
- “Ideally it would be useful to see invasion fronts of different species.”
- “Consistent guidelines for mapping populations at different scales.”
- Strong collaborations across agency and organizational boundaries.”
- “ A regional ‘Strike Team’ of weed mappers.”

# Summary

- Several groups are mapping invasive plants but data is not readily available to other organizations or individuals.
- Need for data to answer key management questions.
- Ohio is ready for an ongoing, collaborative and comprehensive statewide effort to map invasive plants.
- The ODNR Division of Natural Areas and Preserves could coordinate this effort.