



**Creating and Improving Pollinator  
Habitat in the State of Ohio**

# Purpose

- **Create and improve pollinator habitat across the State of Ohio.**
- **Increase and improve pollinator conservation awareness for all Ohioans.**



# Problem

- Pollinators are in decline nationwide including:
  - Monarchs
  - Native Bees
  - Other pollinator species
- Vital nectar sources are also in decline.
  - Especially in Fall
- The Monarch host plant, is lacking on the landscape.



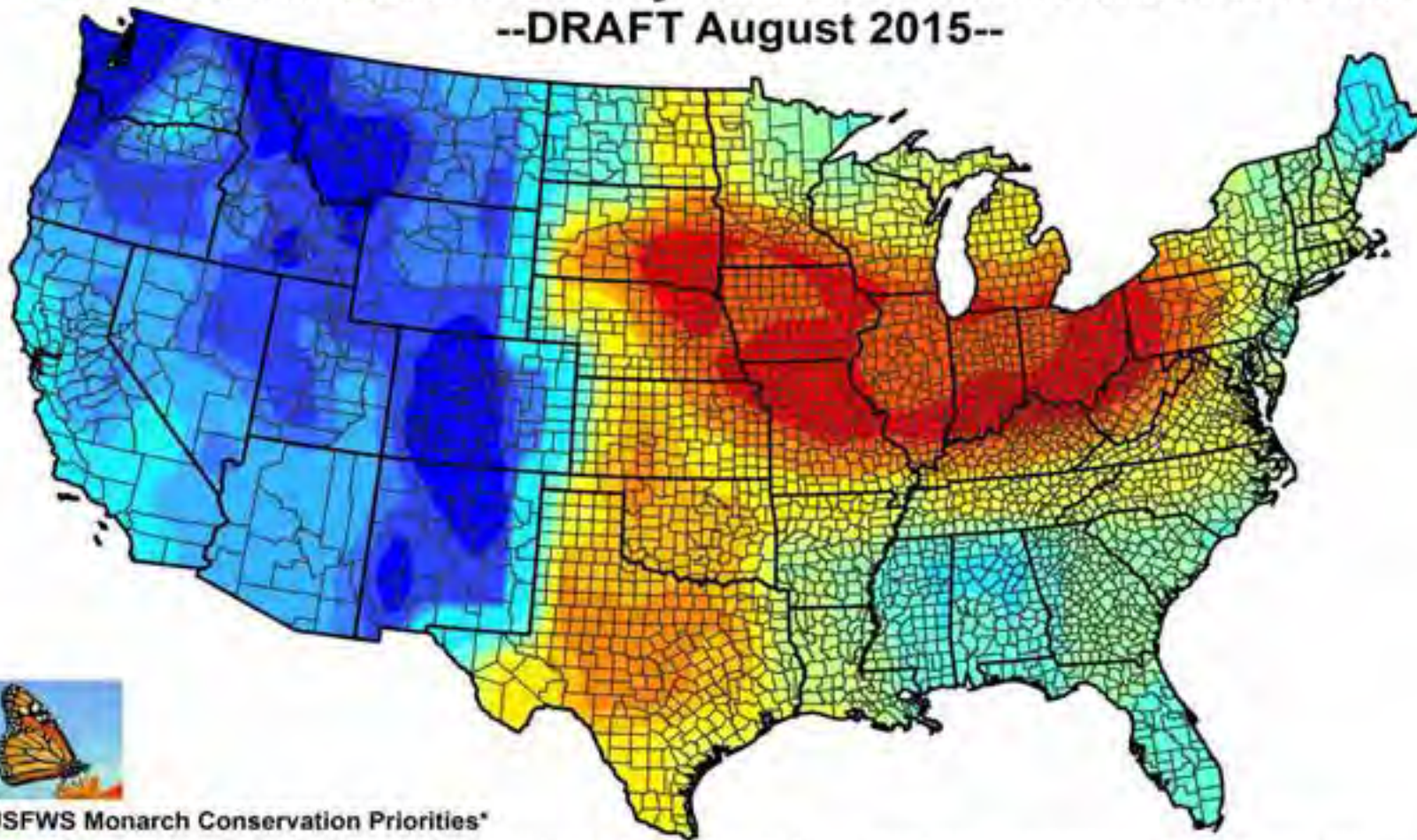




## U.S. Fish & Wildlife Service

### USFWS Monarch Butterfly National Conservation Priorities

--DRAFT August 2015--



USFWS Monarch Conservation Priorities\*



*\*This map is intended to inform U.S. Fish and Wildlife Service national-scale monarch butterfly conservation work. It was created using tools developed by the USGS-led Monarch Conservation Science Partnership, in this case highlighting priorities for maximizing overwintering population-level outcomes through a combination of focusing on geographic priorities, opportunity areas, and threats to be avoided. This is a DRAFT version and may be adapted or customized for different decisions and/or scales; updates will be ongoing, using the best available science.*

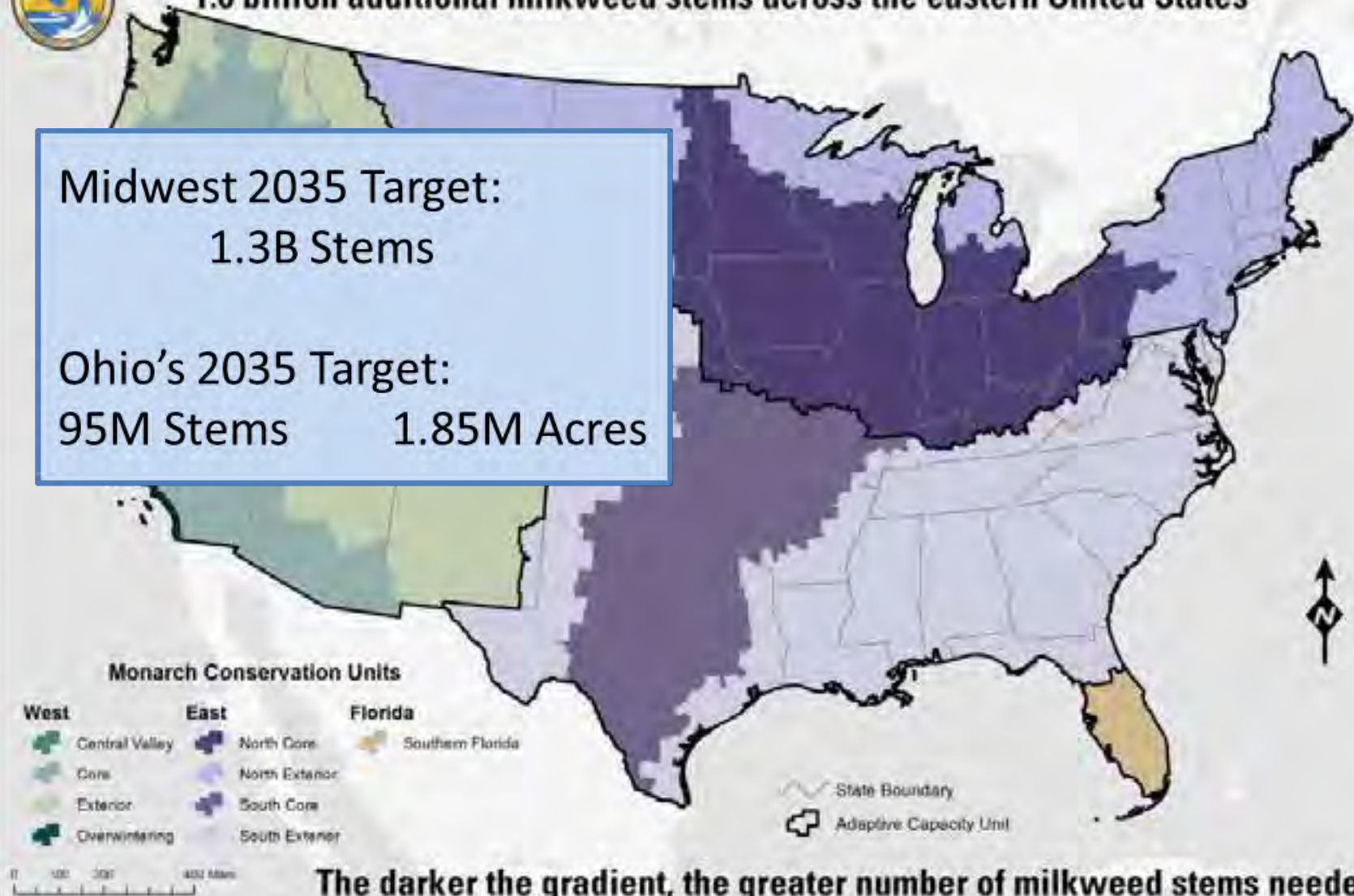


## Preliminary Targets for Monarch Butterfly Conservation

1.6 billion additional milkweed stems across the eastern United States

Midwest 2035 Target:  
1.3B Stems

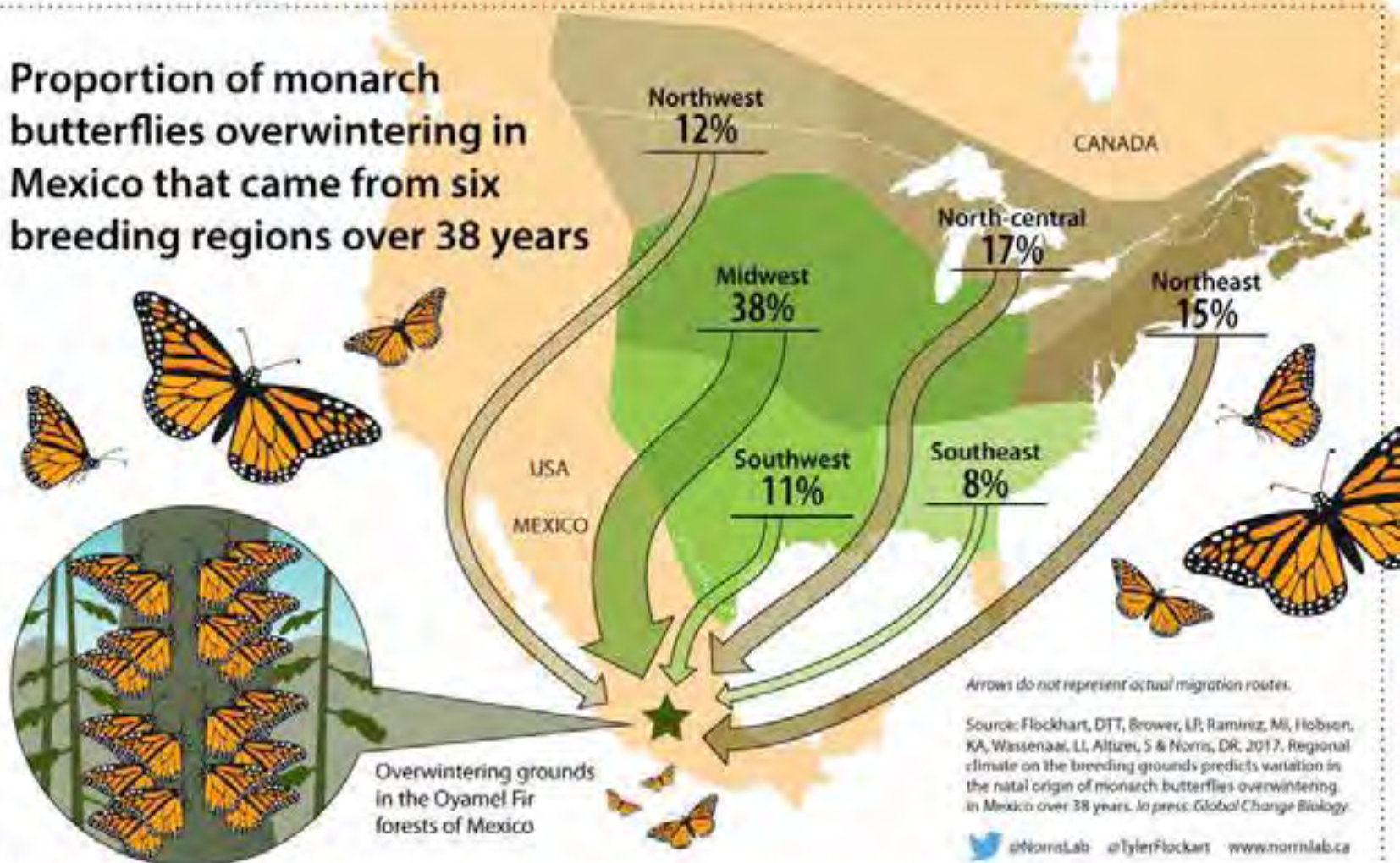
Ohio's 2035 Target:  
95M Stems      1.85M Acres



**The darker the gradient, the greater number of milkweed stems needed.**



## Proportion of monarch butterflies overwintering in Mexico that came from six breeding regions over 38 years



# It's About More Than Monarchs and Milkweed!

Benefits include wildlife and pollinator habitat and soil and water protection.



Photo credit: Pheasants Forever; from symposium: "**Bees, Butterflies, Birds and You**" - Featuring eight top pollinator experts at the **National Pheasant Fest and Quail Classic** at the Minneapolis Convention Center, February 17, 2017



# Creating habitat for Monarchs helps other pollinators and wildlife

Common species of pollinating insects

Ruby-Throated is a native species. P. lobelia, but will use many

Flower species flower habitat bees and



©Jim McCormac

Scores of pollination.



# Ohio Bee Atlas Survey

- Summer 2017
- Represent just
- ~60% Common
- ~94% are 3 n
- Also seen - *B. griseocollis*,
- *B. pennsylvanicus*



observations  
recorded in Ohio

*impatiens*, *B.*

and *B. auricomus*/

The search continues...How can you help?  
You can become an active bee watcher and contribute real data to us by submitting photos of bees in your backyard or local parks to iNaturalist > the Ohio Bee Atlas project.

<https://www.inaturalist.org/projects/ohio-bee-atlas>

# **Working with Networks of Protected Areas**

- Most states, agencies and conservation groups have conservation plans that target specific species or habitat conservation priorities.
- In order to meet these priorities multi level landscape planning is necessary.

## **What does this mean??**

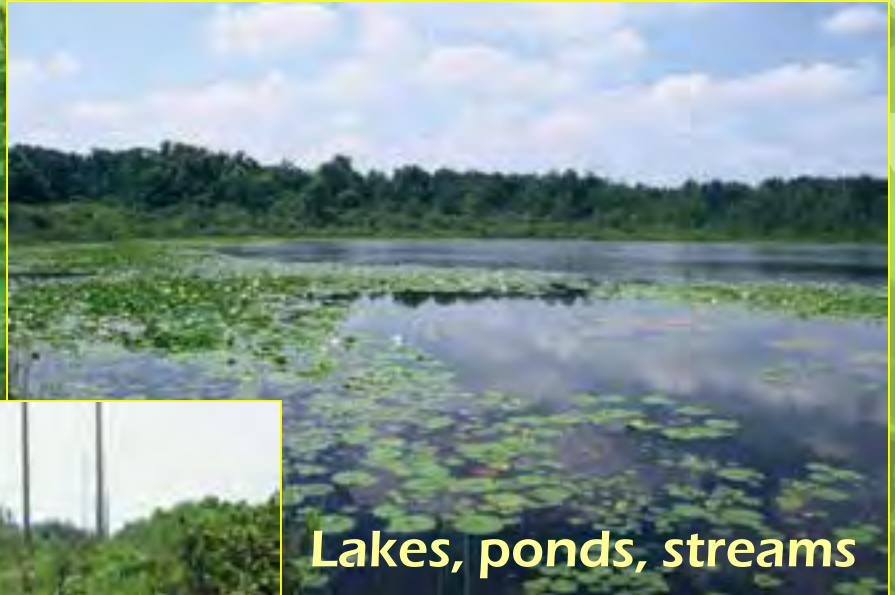
- An inclusive plan for incorporating multiple species benefits through habitat creation is implemented broadly throughout the implementation areas.
- In Ohio OPHI develops guidelines that incorporates Multi agency approved seed mixes, prescribed site selection and site prep guidance, etc.



**Woodlands**



**Lakes, ponds, streams**



**Grasslands**



**Wetlands**



# Landscape Level Partnerships



How

??



# Outreach

- OPHI partners participate in numerous outreach events across the state, regionally and nationally giving us the ability to share our story and create a successful social media presence (mainly Facebook).
- Over 3,400 Facebook followers
- ODNR Twitter outreach: **@ohiodivwildlife**
  - Able to reach a broader audience sharing information and news from OPHI from the field.

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