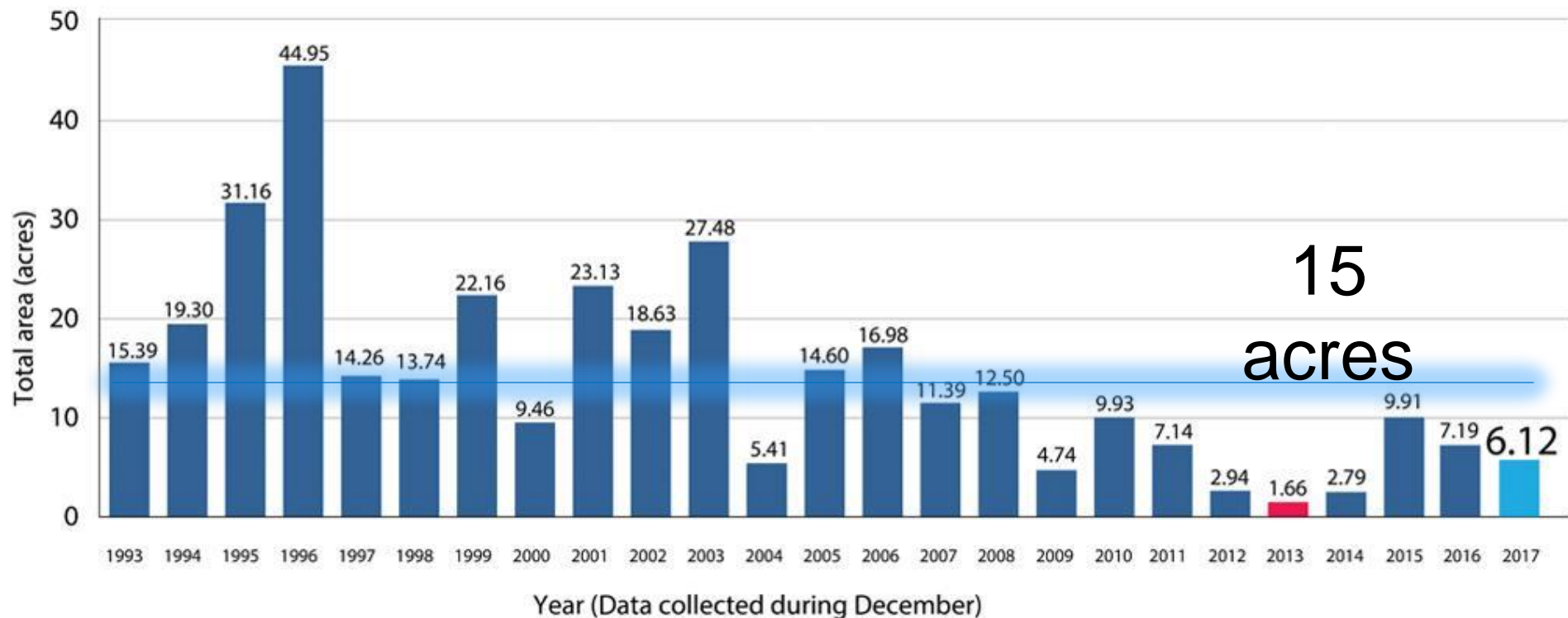


Pollinator Update

Sergio Pierluissi
Midwest Regional Coordinator
Partners for Fish and Wildlife



Area of forest occupied by monarch butterflies hibernating in Mexico



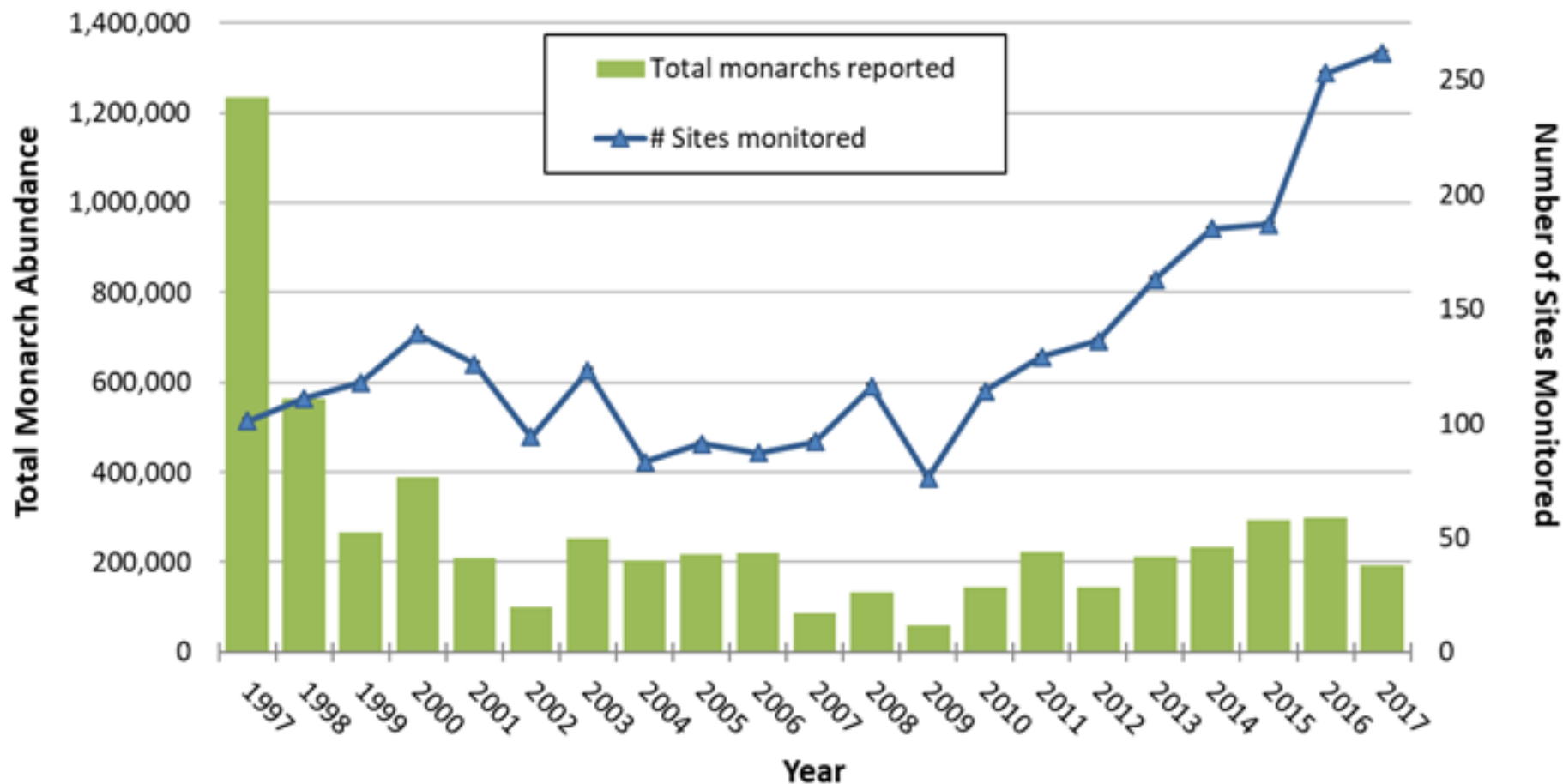
Data from 1994-2003 were collected by personnel of the Monarch Butterfly Biosphere Reserve (MBBR) of the National Commission of Protected Natural Areas (CONANP) in Mexico. Data from 2004-2017 were collected by the WWF-Telcel Alliance, in coordination with the Directorate of the MBBR.

Western Monarch Thanksgiving Count

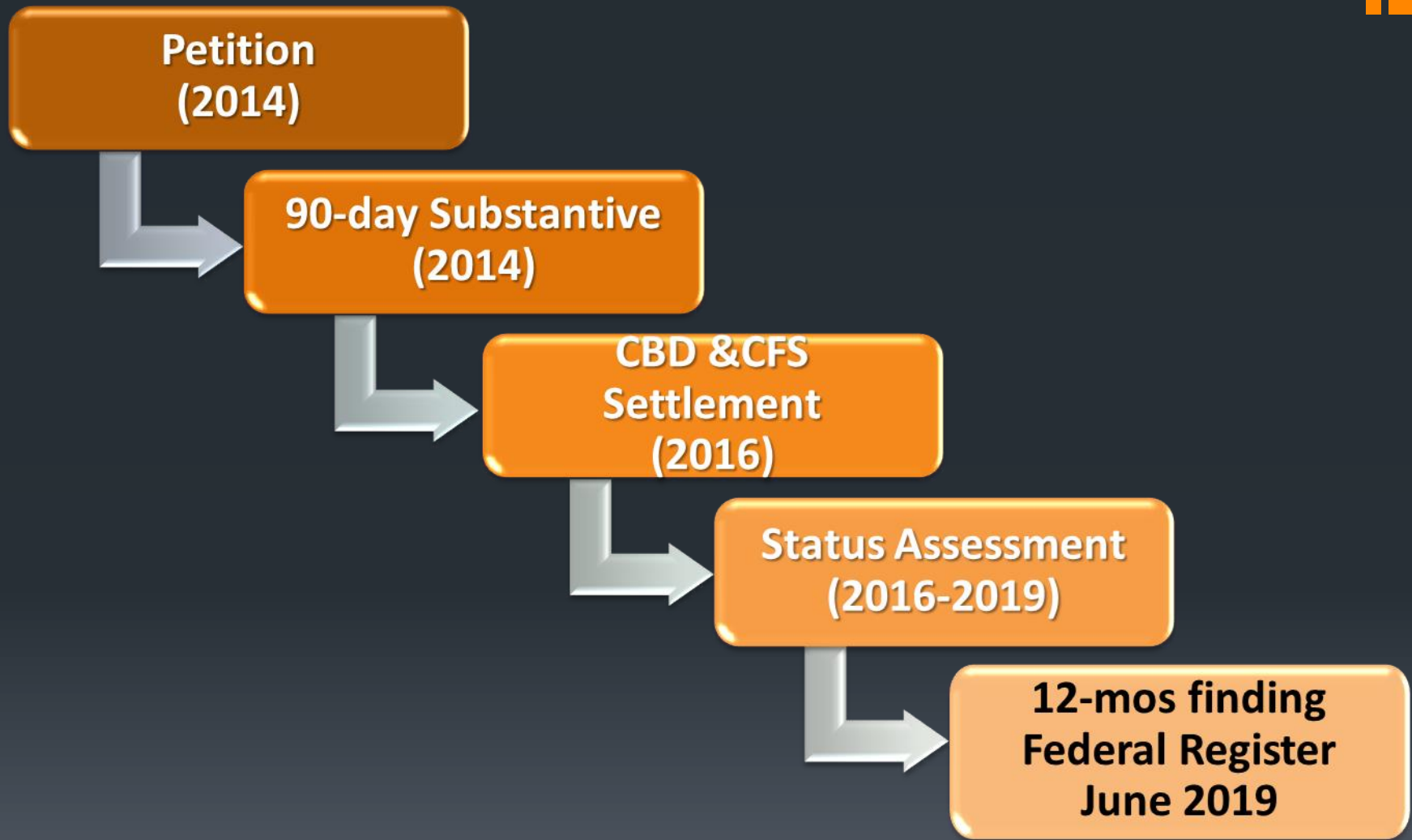
Total Abundance Estimates w/ Number of Sites Monitored
from 1997-2017

(Xerces Society Western Monarch Thanksgiving Count 2018)

© The Xerces Society for Invertebrate Conservation 2018



Monarch Butterfly Conservation



fws.gov/savethemonarch



2020 Eastern Population Targets

15 acres occupied at Mexican overwintering sites

1.8 billion additional milkweed stems





Western Population Targets
In development
10 million butterflies in 1980s (Schultz)



Monarch Butterfly Conservation



HABITAT

SCIENCE

PEOPLE

CAPACITY, COLLABORATION, & FUNDING

Candidate Conservation Agreements with Assurances



What are CCAAs?

Candidate Conservation Agreements with Assurances (CCAAs) are:

- Voluntary agreements with non-Federal property owners
- Designed to address threats to a particular **unlisted at-risk species** for a specific number of years
- A tool to address concerns about providing conservation for a species that in the future may be listed
- Issuance criteria meet the PECE policy criteria

What are the benefits of a CCAA?



To the species:

- Reduce or remove identified threats
- Benefits populations and habitat and could preclude need to list

To the property owner:

- Memorializes contributions
- Regulatory certainty

The Service and NRCS have programs that can provide assistance in implementing habitat restoration and enhancement to support the Agreement.

Monarch CCAA

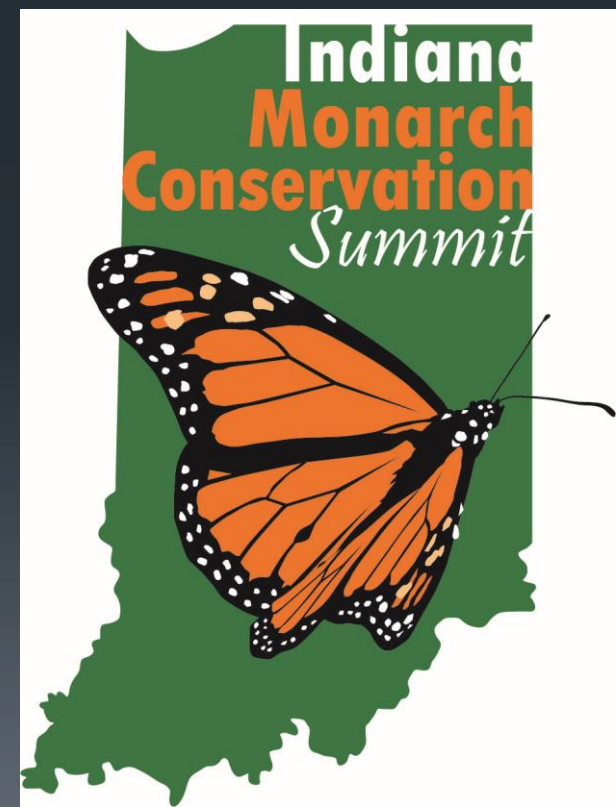
**Overall Monarch CCAA
Contact:**

**Iris Caldwell
University of
Illinois-Chicago
312-355-1483
iriscaled@uic.edu**





State summits



Iowa Monarch Consortium

- Urban - 2,000-10,000 acres
- ROWs - 28,000-49,000 acres
- Public lands - 77,000-116,000 acres
- Agricultural lands - 171,000-343,000 acres



Ag partnerships

- Industry
- Growers Associations
- Cattlemen Associations
- Individual producers
- Keystone Monarch Collaborative
- Farm Bill Working Groups



The poster features a vibrant field of yellow Black-eyed Susans and purple flowers. Text is overlaid on the top and bottom of the image. The top section includes quotes from Robb Fraley and Tom Melius. The middle section has a title and subtitle. The bottom section lists supporters and provides a description of the initiative.

Missourians for Monarchs Habitat Initiative For Farmers & Ranchers
Restoring Habitat for Monarchs, Pollinators and Other Wildlife

"The monarch will become a symbol for how agriculture and the environment can nourish a growing world while preserving natural habitat and nature's wonders." – Robb Fraley, Monsanto Chief Technology Officer

"Agriculture can play a crucial role in maintaining a beneficial relationship between native pollinators, native plants, and food production. You can help monarchs by planting native milkweed and nectar plants in your backyard, on your back forty and on every back road in between." – Tom Melius, U.S. Fish and Wildlife Service Midwest Regional Director

Initiative supported by:

Logos for Saint Louis Zoo, Missouri Department of Conservation, Missouri Department of Agriculture, Missouri Department of Transportation, USDA, and Monsanto.

The Missourians for Monarchs Habitat Initiative is a partnership between producers, federal, state and local conservation organizations to sustain habitat for monarch butterflies and pollinators through voluntary citizen involvement. The collaborative agrees to create at least an additional 19,000 acres of pollinator habitat annually for the next 20 years.

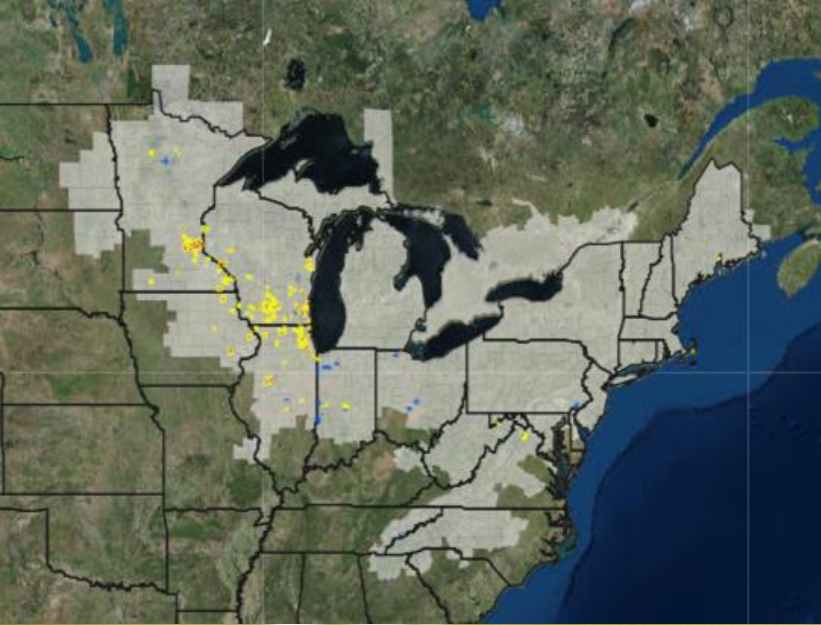
Learn how you can benefit monarch butterflies & pollinators not only on agricultural land, but also at home, school & other sites: moformonarchs.org

Photo courtesy of www.HenryOstrik.com



Monitoring

- Private lands, public lands, ROWs, urban
- Where is the monarch habitat? Where is it not?
- Testing 2016-2017
- Continuing this year at multiple sites and incorporating citizen science



**Rusty patched
bumble bee**

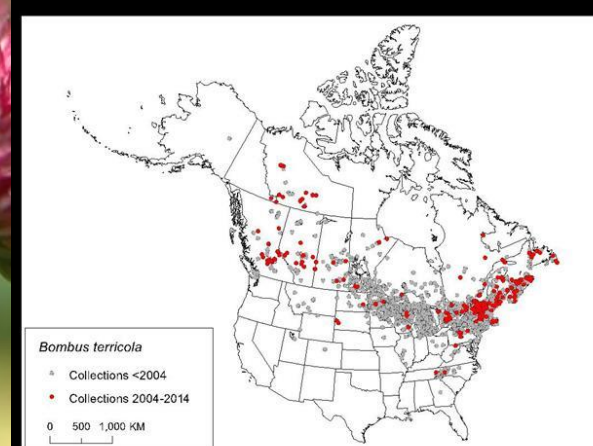
Frosted Elfin



Yellow Banded Bumblebee



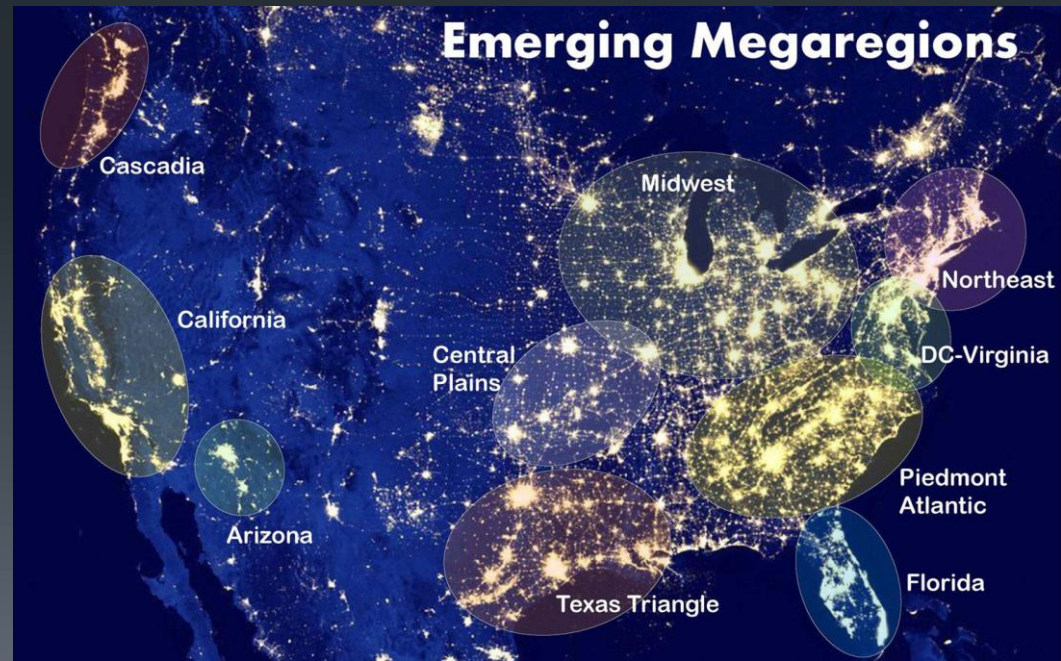
courtesy of Sandy Gillians/Creative Commons



We're talking about challenges...



- Managing wide-ranging species
- Landscape conservation
- Land Use Change
- Invasive species



Conservation Delivery Programs

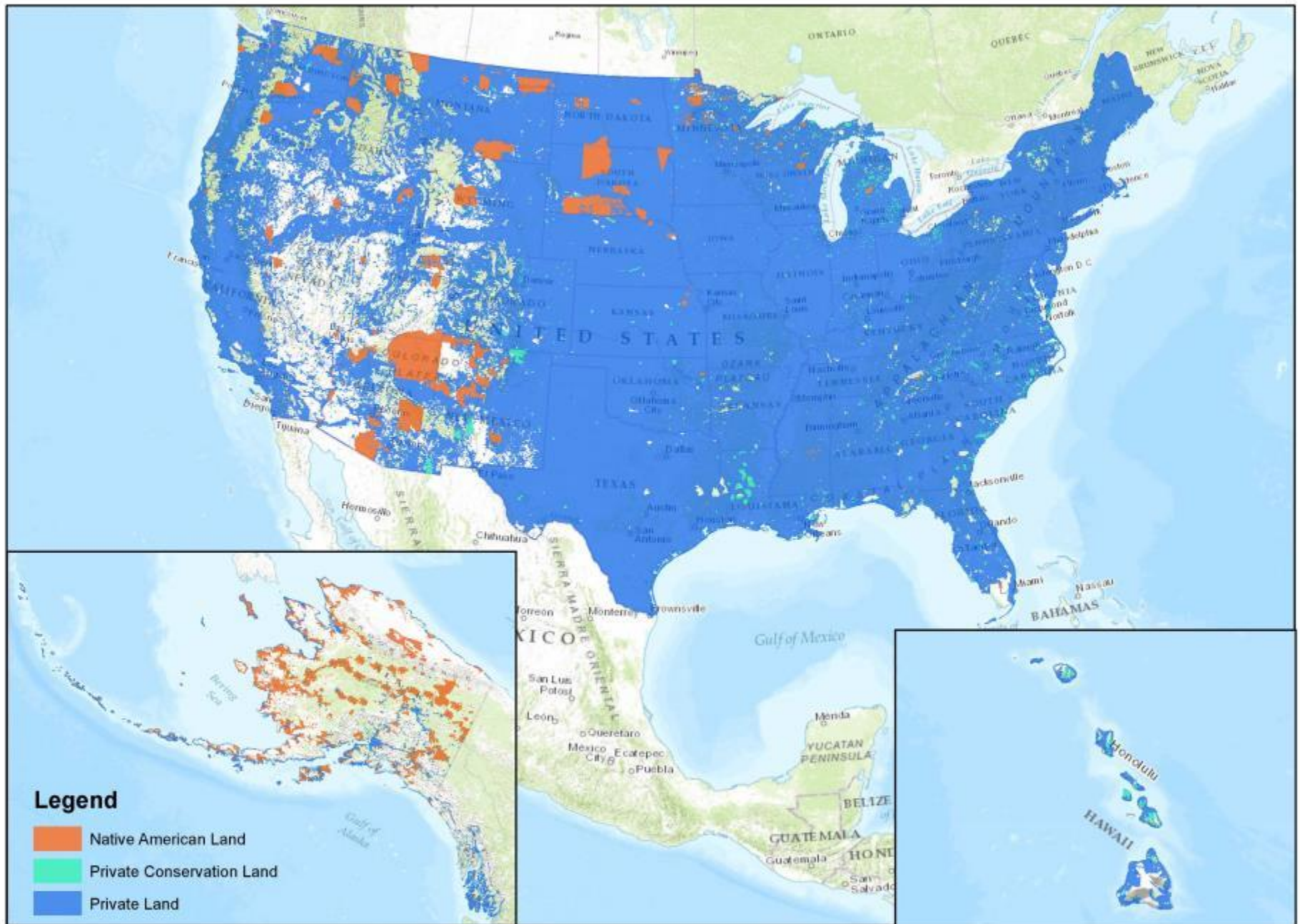
- Partners for Fish and Wildlife
- Coastal Program
- Great Lakes Restoration Initiative



Partners for Fish and Wildlife



Private and Native American Lands Distribution in the United States



- Partnership/Stakeholder Driven
- 10 Year Agreements
- Voluntary



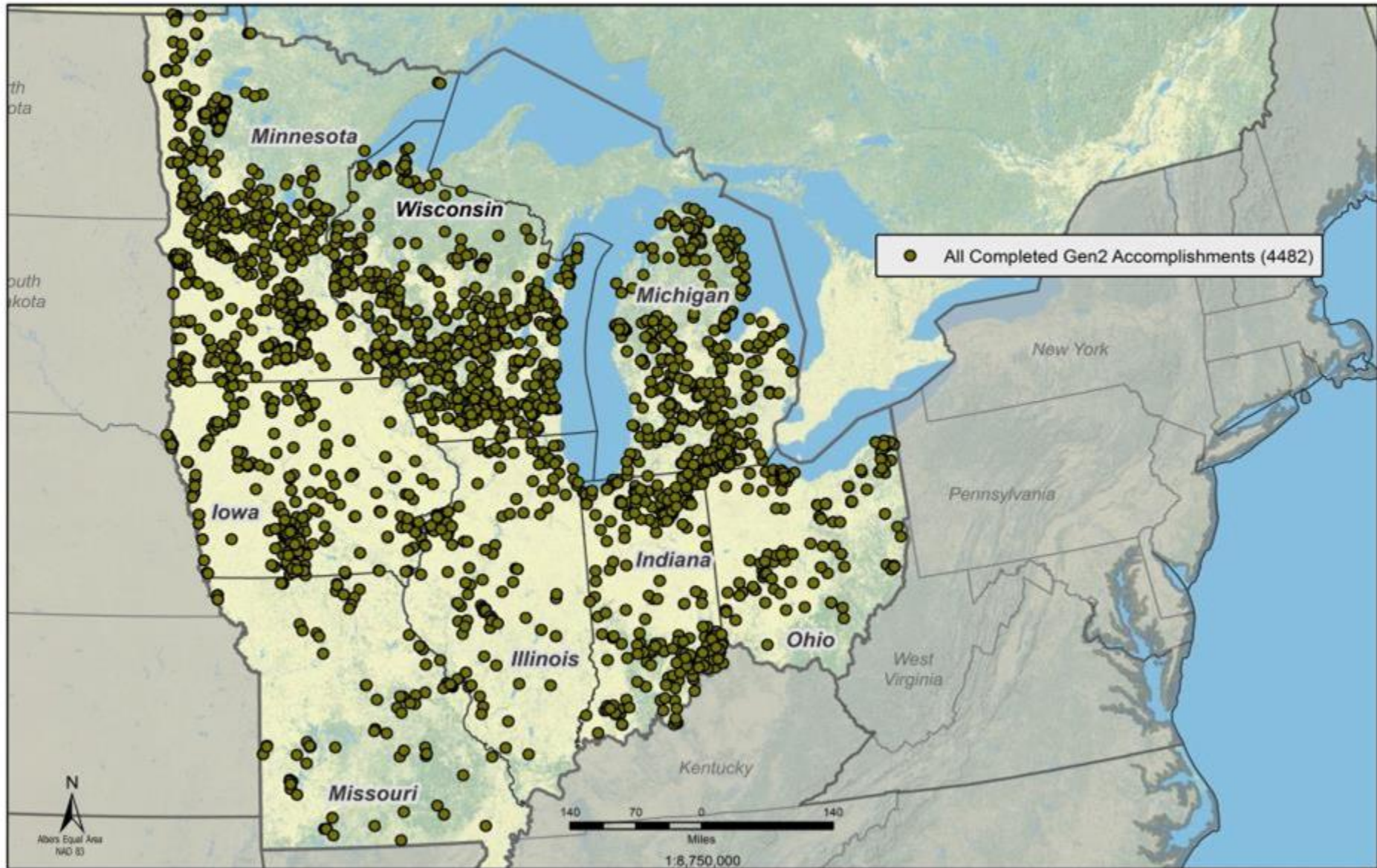






U.S. Fish & Wildlife Service - Partners for Fish & Wildlife Programs, Region 3, Midwest

HabITS Generation 2 Strategic Plan, Completed Accomplishment Locations, FY2012-FY2016



Coastal Program

- Voluntary Habitat Restoration
- Public and Private lands
- Coastal “Ribbon”
- Focus Areas
 - Trust species “hotspots”
 - Habitat restoration opportunities

U.S. Fish & Wildlife Service

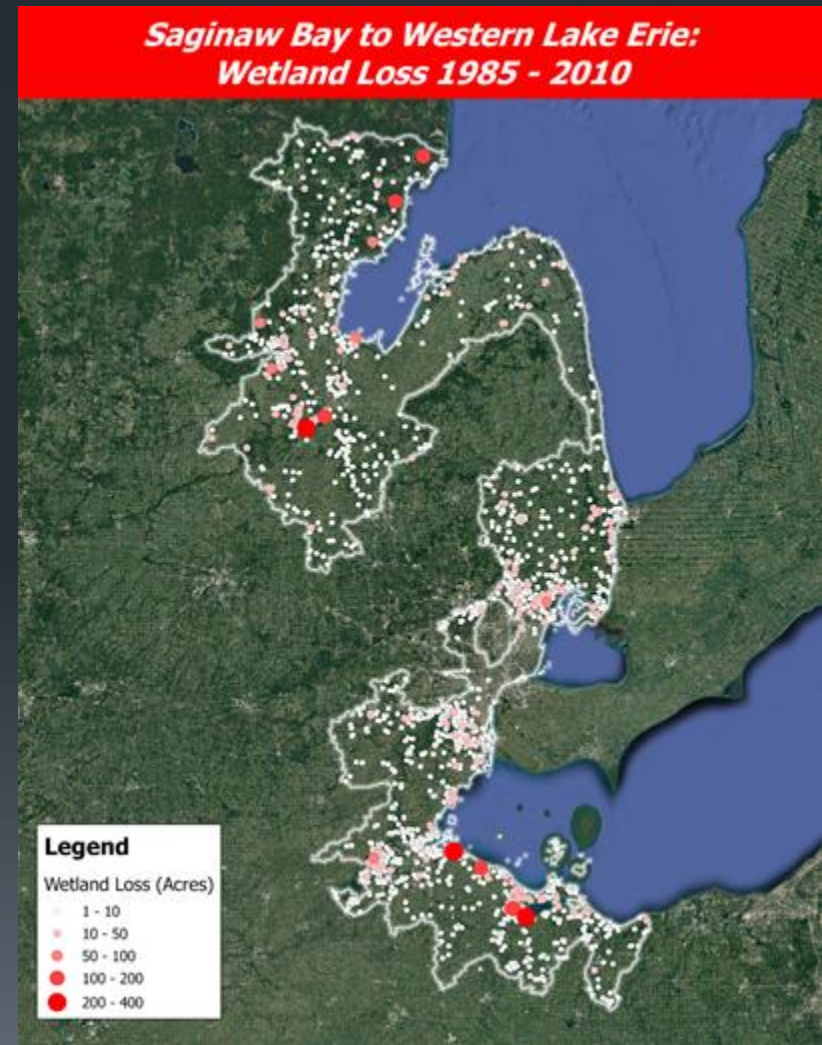
Region 3 Coastal Program - Great Lakes

*Strategic Work Plan
2017-2021*



Focus Area in Detail

- Coastal Wetland Conservation
- Broad Collaboration (state, federal, NGO, universities, tribal)
- Planning
- Conservation Delivery
- Opportunity for ROW engagement



ROW Project Example

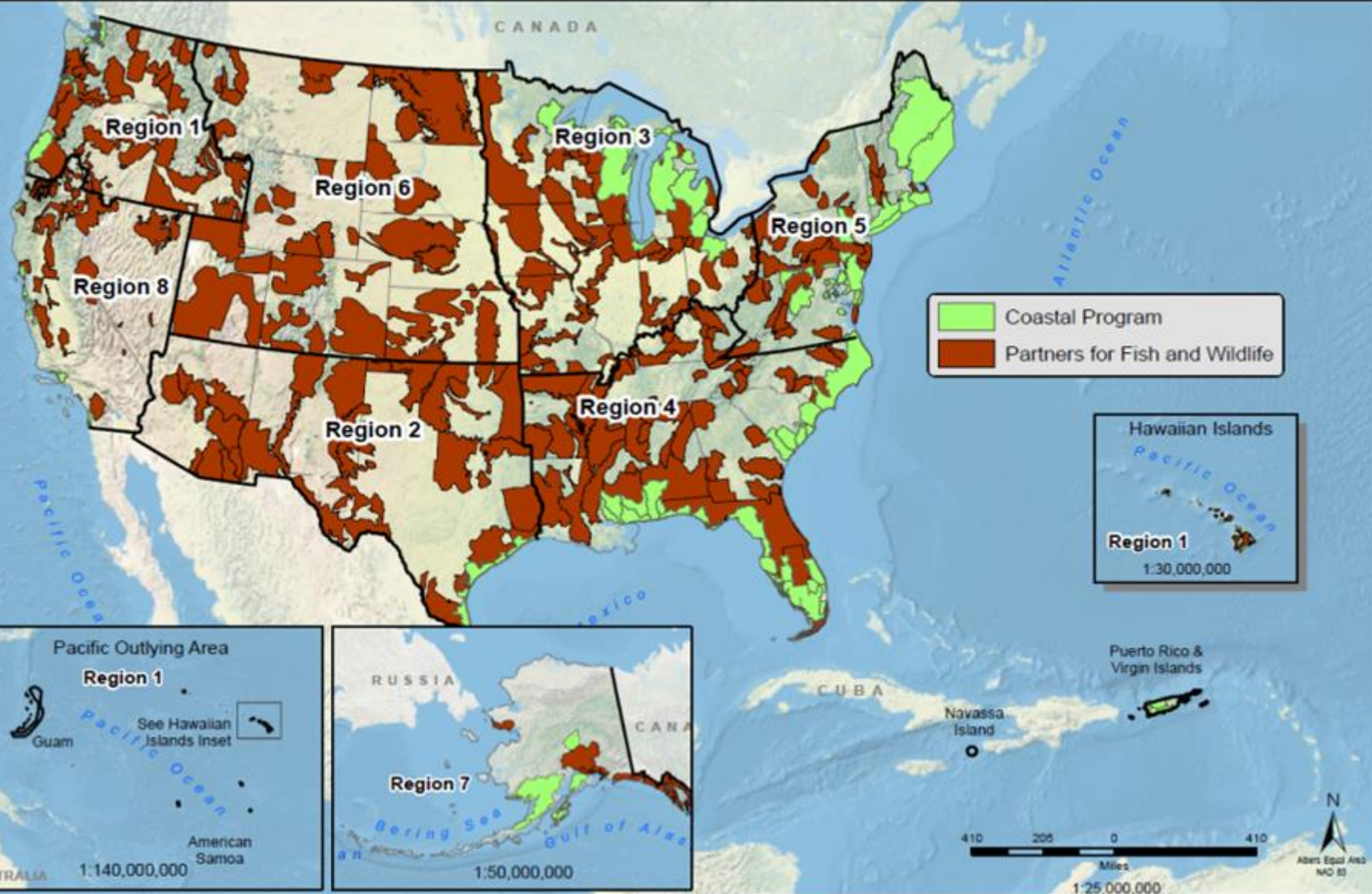
- Pollinator/Migratory Bird Habitat Enhancement
- Adjacent to Lake Superior & M-28/US-41



- Youth & Community Involvement
- High complexity
- Local Partner: Superior Watershed Partnership




USFWS Branch of Habitat Restoration Generation 2 Strategic Focus Areas 2012-2016



Great Lakes RESTORATION



- Pollinator coordinator coming on board
- Working closely with USFS and others on pollinator conservation in the Great Lakes basin



Please email any
comments or information
specific to this presentation
to:

sergio_pierluissi@fws.gov

Thank you