

MANAGING SHARED FISHERIES RESOURCES: ISSUES AND PROCESS

Chris Goddard

Great Lakes Fishery Commission

&

Gary Isbell

Ohio Department of Natural Resources

MAFWA Annual Meeting, Huron, Ohio
July 12, 2005

OUTLINE

CHRIS GODDARD—OVERVIEW

- Cooperative fishery management on the Great Lakes
- Aquatic invasive species
- Cormorants
- Habitat

GARY ISBELL—STATE PERSPECTIVE

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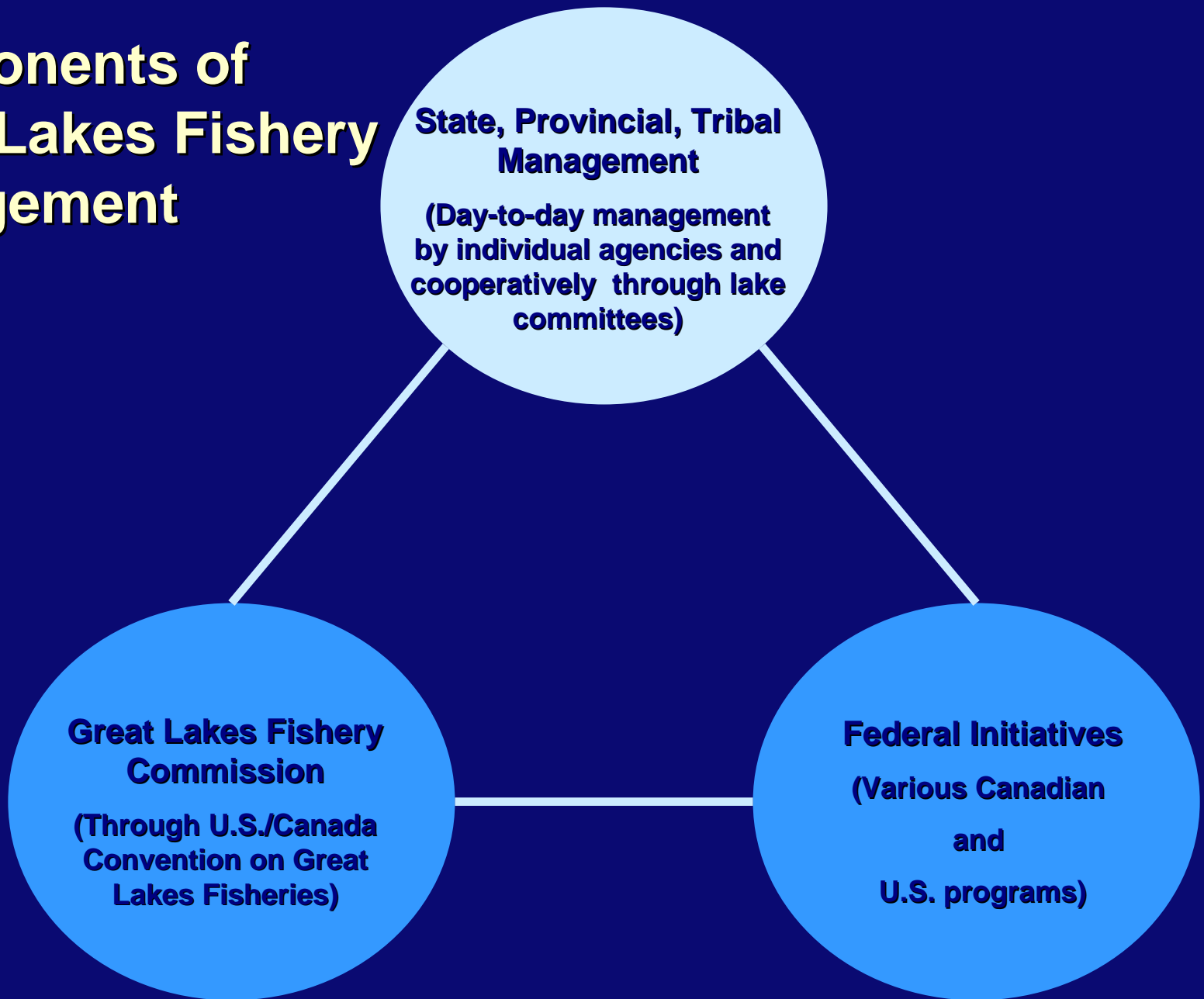
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FEATURES OF GREAT LAKES FISHERY MANAGEMENT

- Sustaining fish stocks
- Protecting diversity
- Maintaining predator/prey balance
- Managing based on best information
- Balancing stakeholder interests and needs



Components of Great Lakes Fishery Management



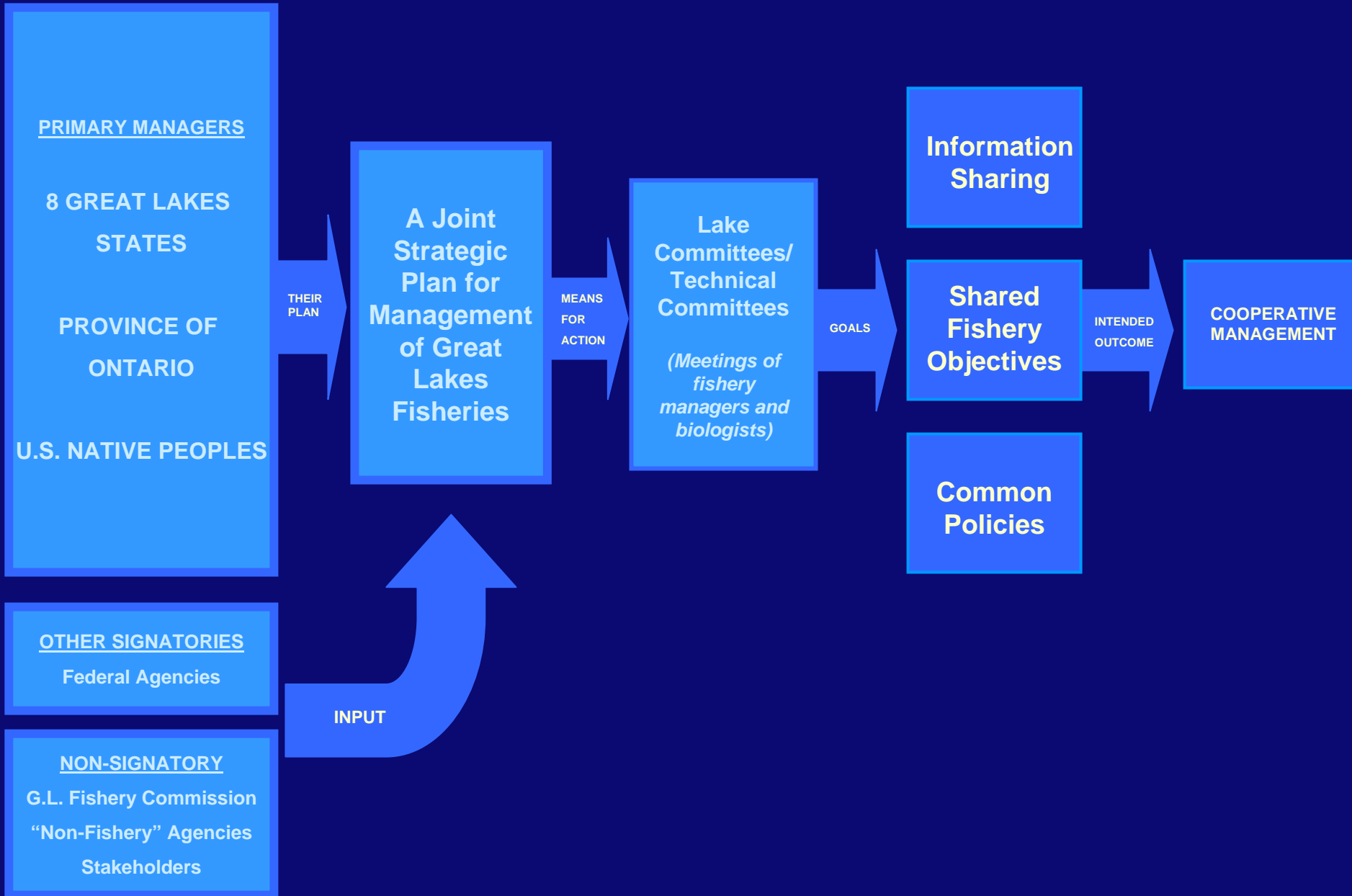


PRIMARY MANAGEMENT AUTHORITY: PROVINCE, STATES, AND U.S. TRIBES

- Harvest regulation
- Enforcement
- Licensing
- Stocking
- Species rehabilitation
- Assessment
- Habitat protection
- Public communication



THE GREAT LAKES FISHERY MANAGEMENT REGIME



STRATEGIES FOR GREAT LAKES FISHERY MANAGEMENT UNDER THE PLAN

- **Consensus**
- **Accountability**
- **Information Sharing**
- **Ecosystem Management**

LAKE COMMITTEES

- **Primary management agencies are members:**
 - Province, States, Native peoples (U.S.)
- **Public meetings**
- **Develop and report on shared objectives**
- **Science-based decisions on:**
 - stocking
 - harvest
 - law enforcement, and
 - environmental management, etc.
- **Commission provides support**

Joint Strategic Plan Does Not . . .

- **Bind an agency**
- **Reduce or violate agency jurisdiction**
- **Commit the federal governments**

OUTLINE

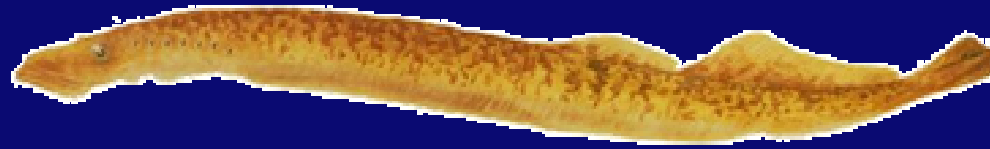
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SEA LAMPREY CONTROL



MAJOR SEA LAMPREY CONTROL METHODS

In the Great Lakes



Lampricide
(TFM)

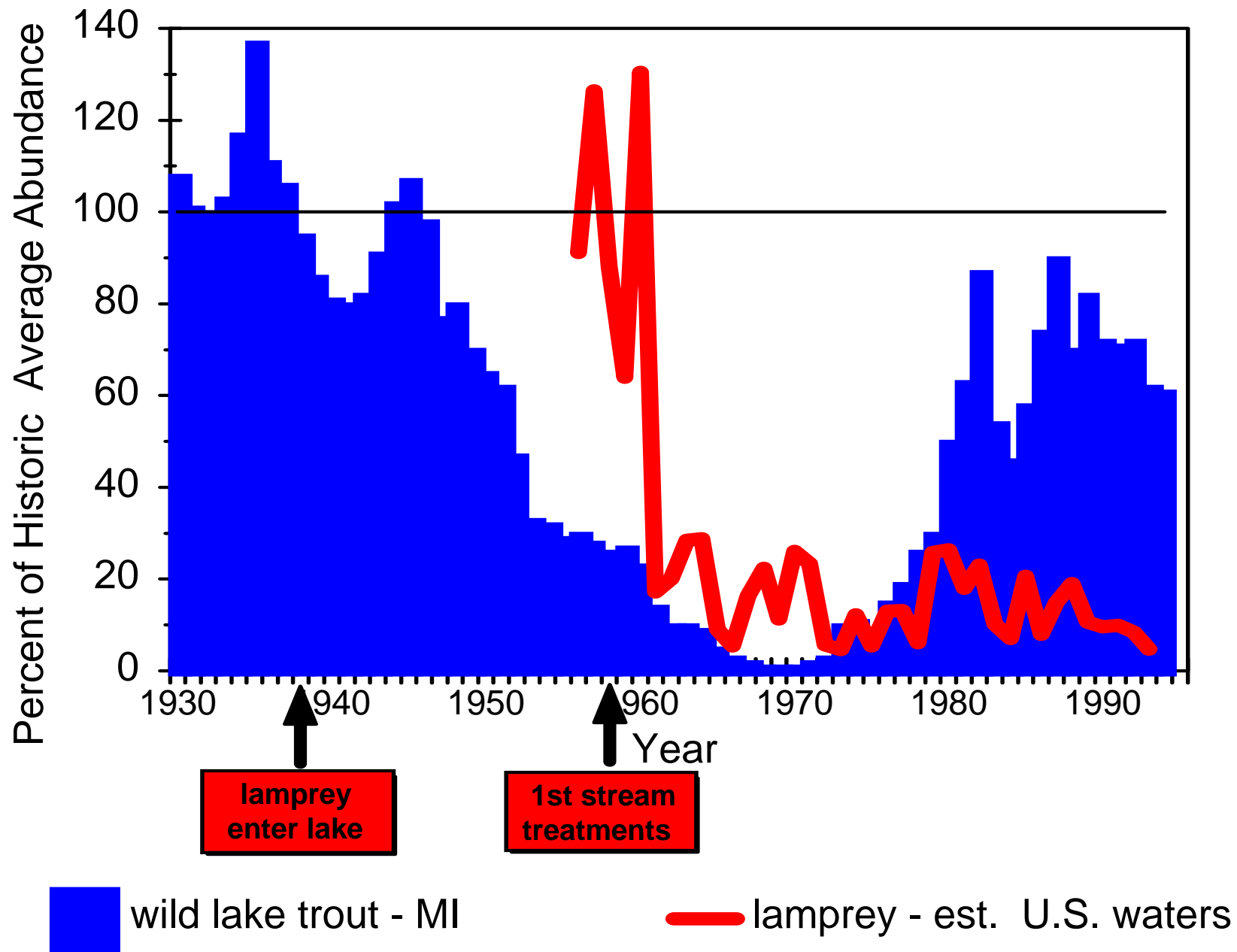


Sterile-Male-
Release

Sea Lamprey
Barriers and
traps



Lake Superior



SEA LAMPREY CONTROL

- 90% Reduction!
- On-going programme
- 2005: \$15 million
- **Prevention**

GOBY-ZEBRA MUSSEL SYNERGY: A DEADLY MIX




Anoxia: Botulism




Toxic Gobies




Dead Fish & Wildlife

STOPPING THE ASIAN CARP

Dispersal barriers

- One built
- One under construction
 - Rapid response
- State contributions!

Trade of Live Fish

- States/provincial action
- No Lacey Act listing—yet

Hydrologic separation

- Logical next step
- Lake Michigan Federation study
- Corps of Engineers study?



U.S. NATIONAL AQUATIC INVASIVE SPECIES ACT (NAISA)

Reauthorization of NANCPA and NISA.

- **Strong ballast water standards**
- **Screening**
- **Rapid response**
- **Chicago Sanitary and Ship Canal**
- **Research**
- **Authorization for \$520 million**

NAISA FOCUS: PREVENTION!

AIS ACTION PLAN UNDER EXECUTIVE ORDER

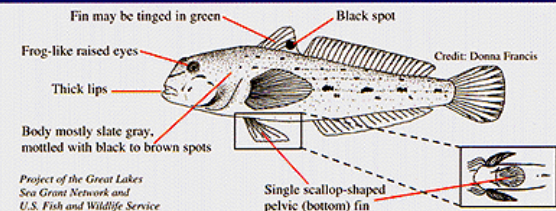
- Aquaculture
- Maritime Commerce
- Canals and waterways
- Organisms in trade
- Recreational activities

TENETS OF AIS ACTION PLAN

- **Prevention!!**
- **Support for NAISA**
- **Research to get the job done**
- **Outreach and education**
- **Matrix of recommended actions**



How to Identify a Round Goby (adult shown)



General Characteristics

- No other native fish in the Great Lakes has the single pelvic fin
- Young are solid slate gray
- Usually 3-6 inches (7.6 - 15.2 cm) long; may be up to 10 inches (25.4 cm)

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CORMORANTS

- Destructive to fishery and habitat
- FWS recently ruled states can act
- No funds provided
- No mechanism for coordination



OUTLINE

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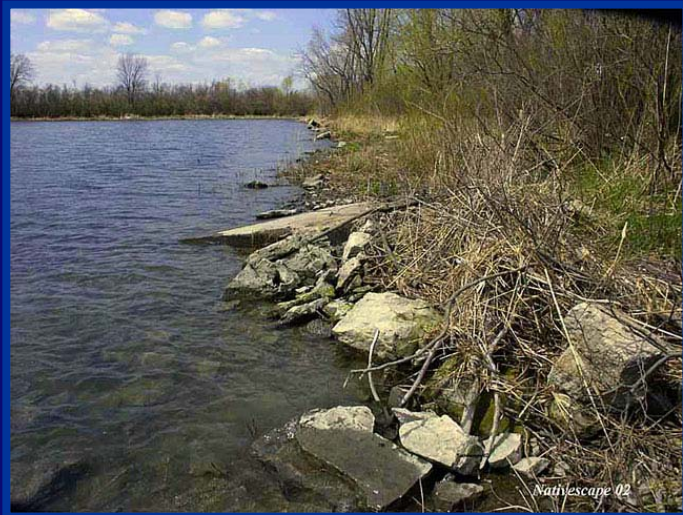
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HABITAT

- **Great Lakes Fishery and Ecosystem Restoration Program (GLFER)**
 - Coordinated through Joint Strategic Plan
 - GLFC cost-share partner
- **National Fish Habitat Initiative**



BEFORE



AFTER

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COOPERATIVE MANAGEMENT

- The Joint Strategic Plan works!
- All agencies participate
- Together we develop objectives and plans
- Consensus
- Information sharing



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AIS OPPORTUNITIES

- **Call for immediate passage of NAISA**
 - Support comprehensive legislation
 - Provide Input into Bill Text
 - Urge Action by Committees
- **Review and comment on AIS Action Plan (July 7)**
 - www.aisstrategyteam.org
- **Build awareness with stakeholder groups**
- **Get your governor and legislature involved**

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CORMORANTS

- Very important local issue
- Need regional solution
- Advisor resolution



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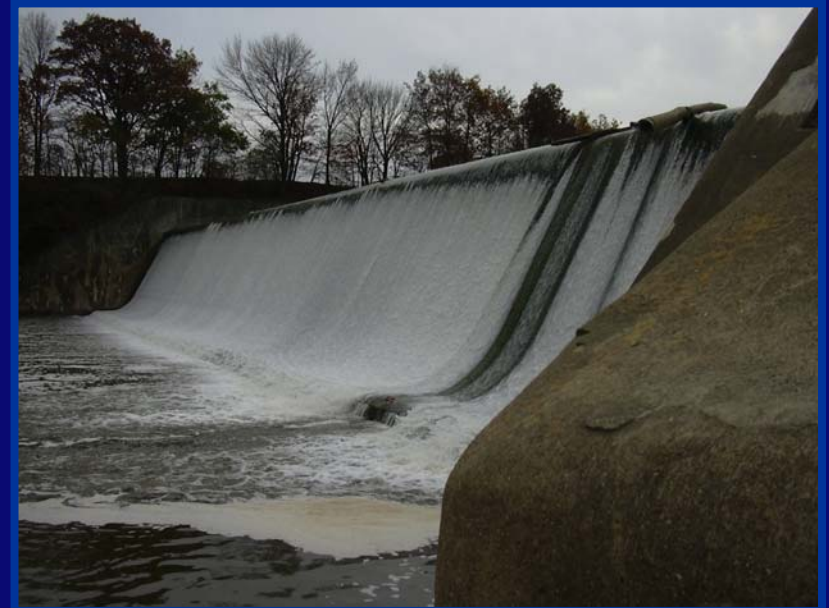
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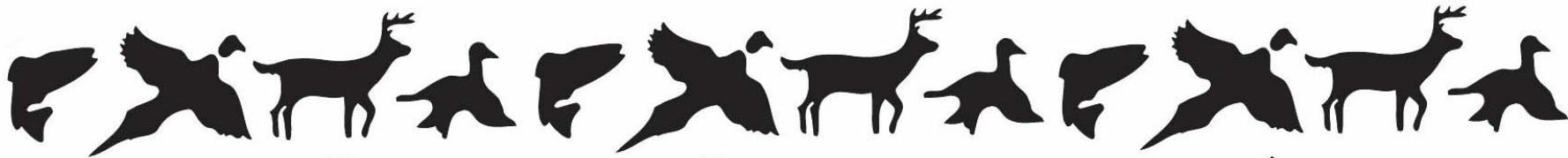
- **Participate in GLFER**
 - Opportunities for federal matching dollars
 - State/tribal participation
 - Custom-made for local projects
- **Continuing involvement of IAFWA in National Fish Habitat Initiative essential**



QUESTIONS?



Midwest Association of Fish and Wildlife Agencies



OHIO 2005



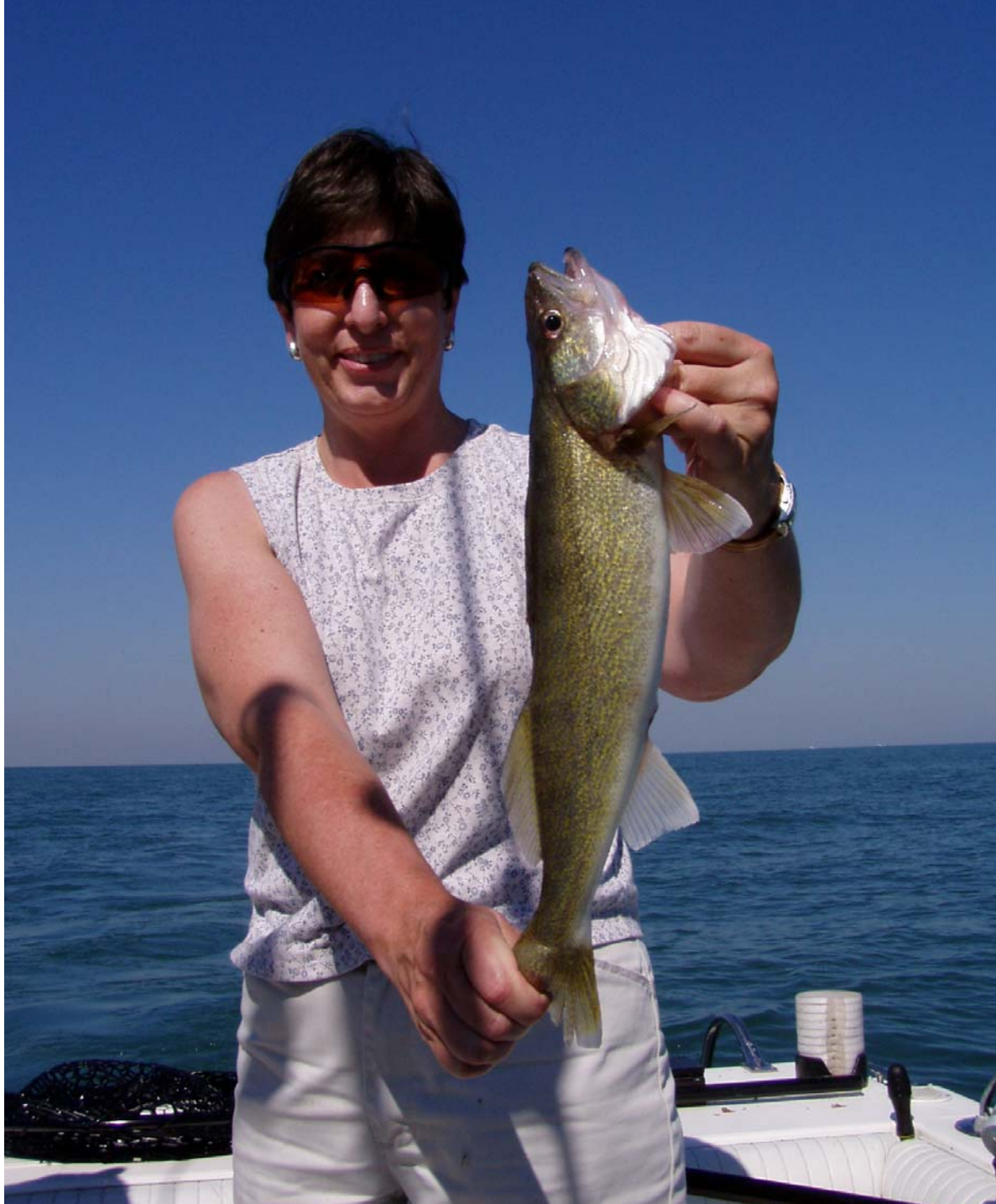


MAN, this is worth at least 200 quail!!











WALLEYE PERCH

PIRATE CLIPPER

SPORT FISHING CHARTERS (419) 350-2167

15 caught fish (Walleye and Perch) displayed on a white board.







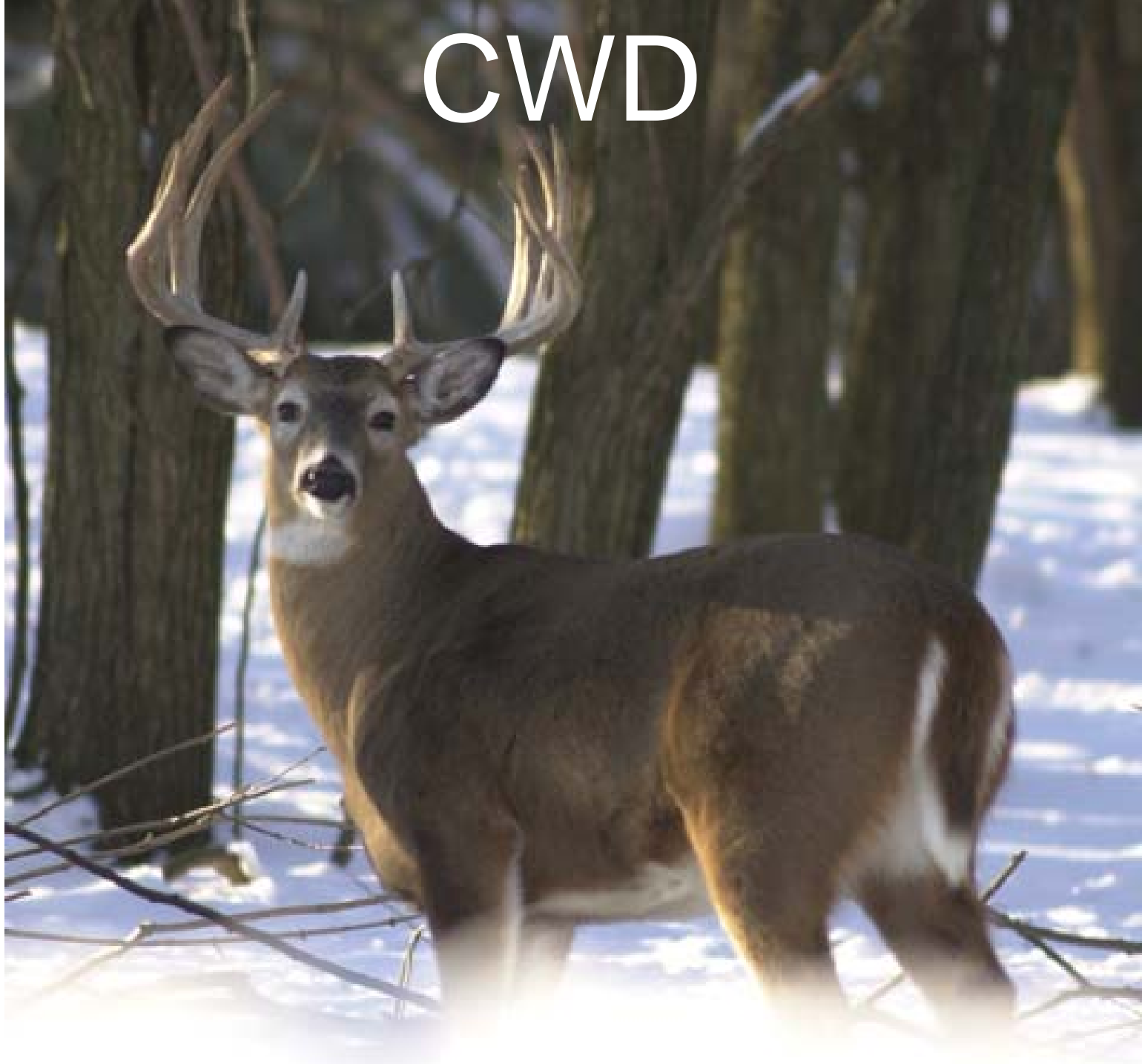


“Hot Topics in the States”

MAFWA



CWD







“AWARDS LUNCHEON”

MAFWA PARTNERS



Old Woman Creek





“CURRENT ISSUES IN MIDWEST”





Luncheon

Committee Reports



Magee Marsh Fish Fry





ARCHERY TRADE

ATA
A S S O C I A T I O N

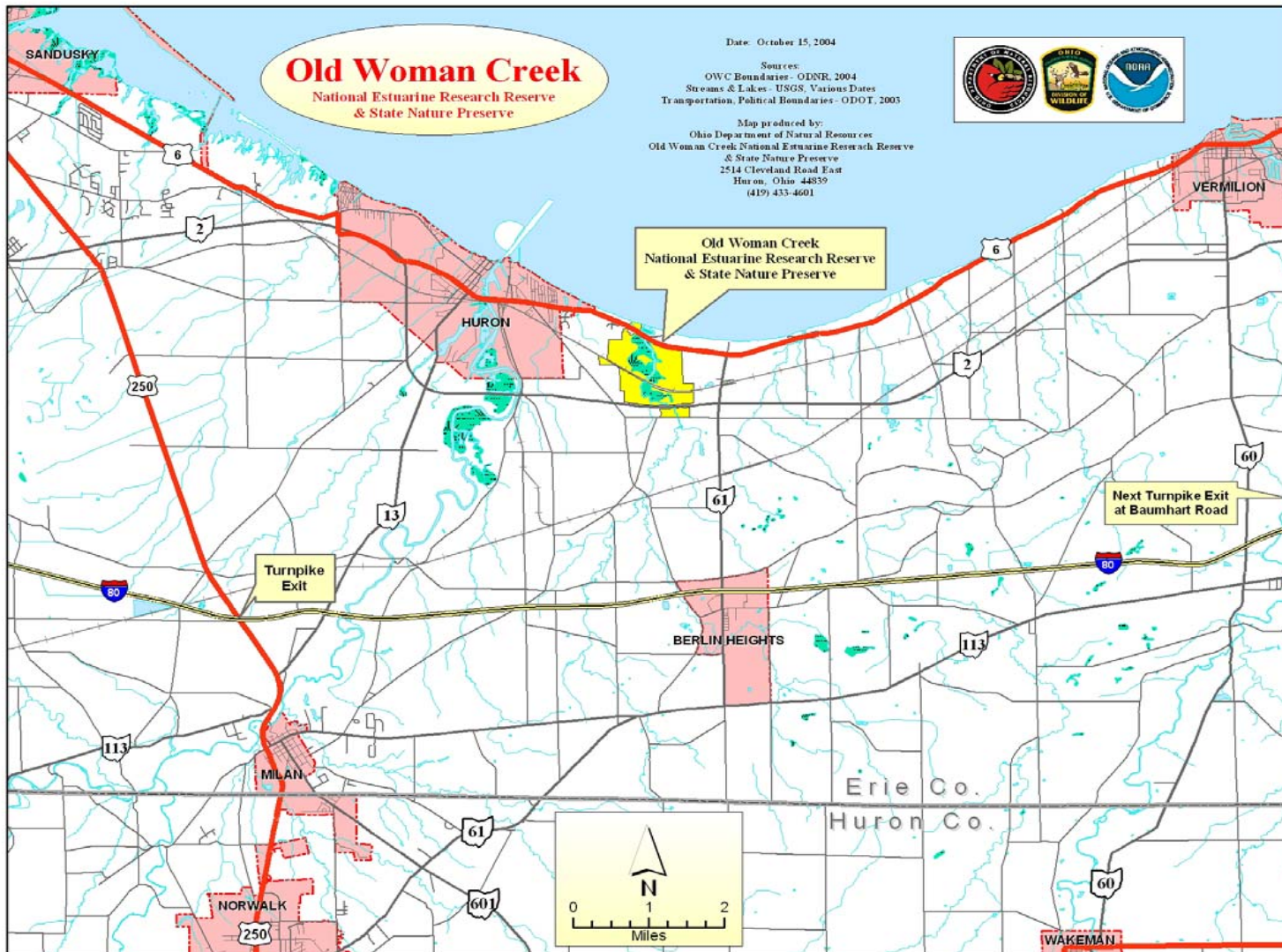




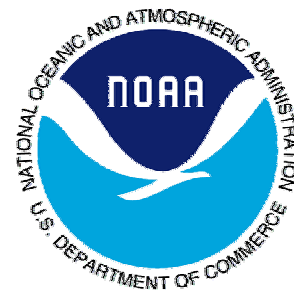
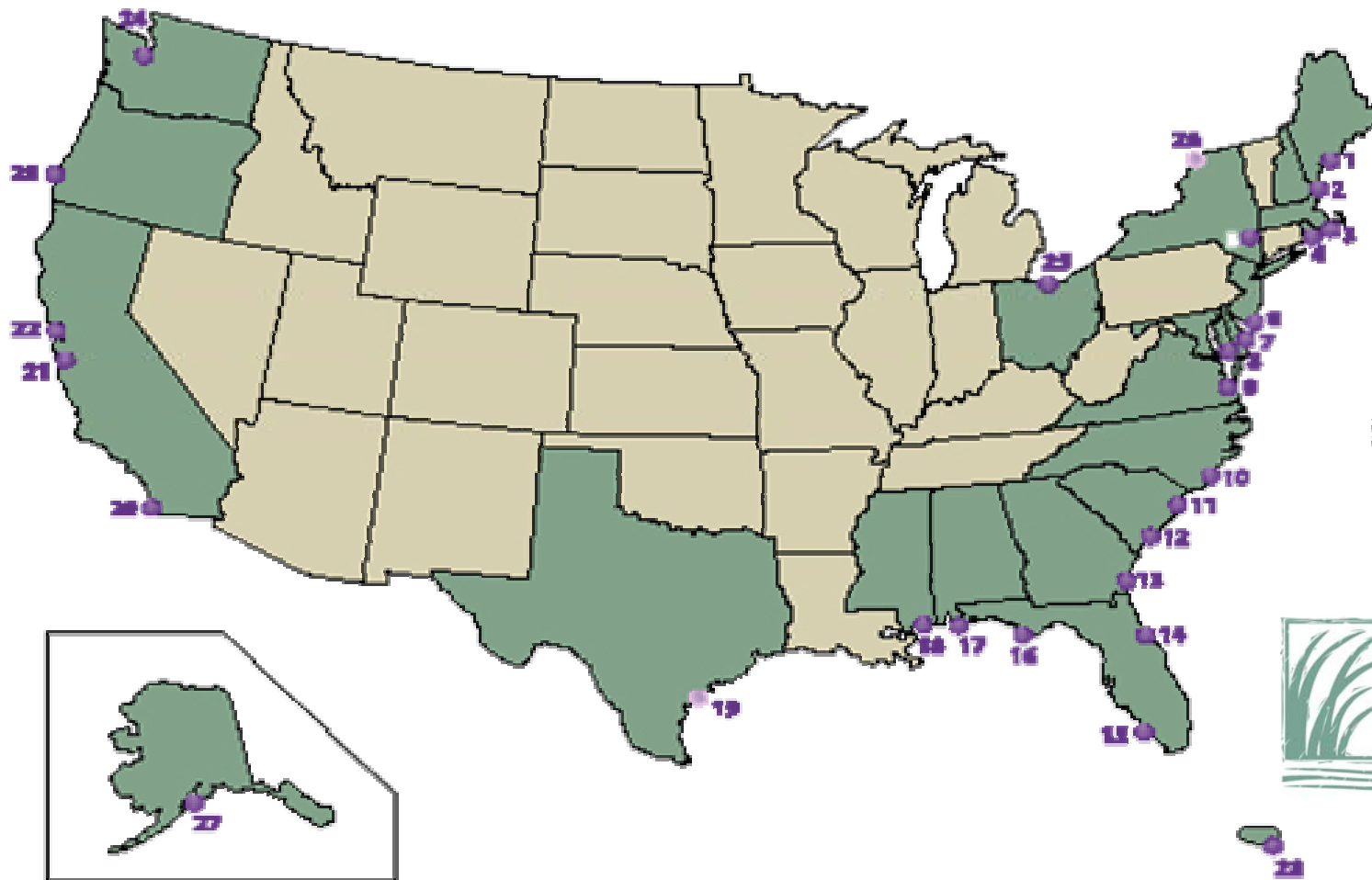
BUSINESS MEETING



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP

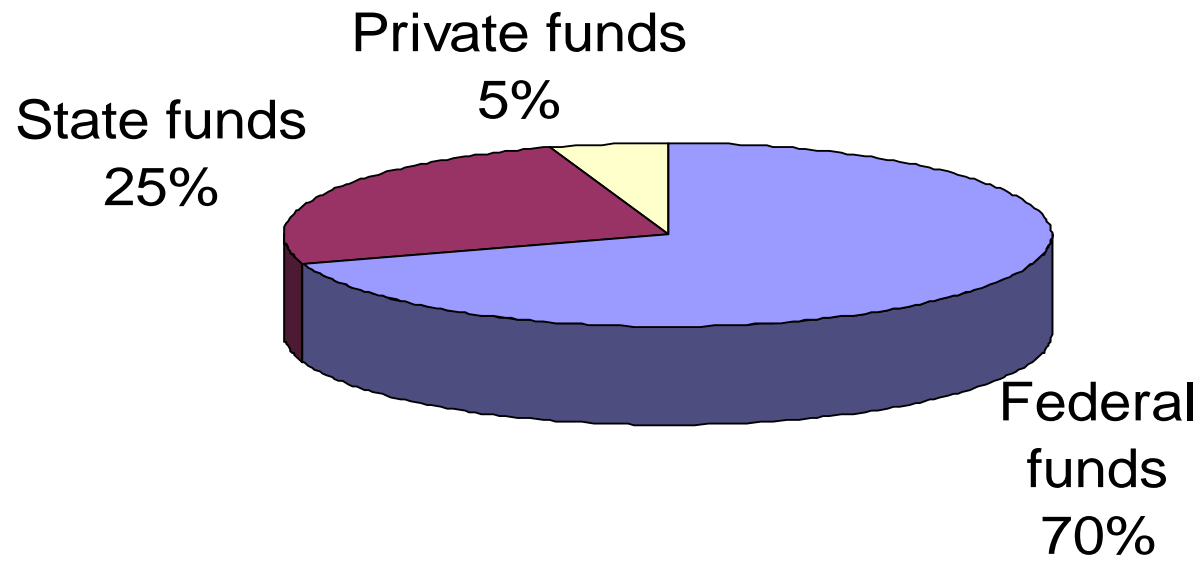
We are dedicated to conserving and improving the fish and wildlife resources and their habitats, and promoting the use and appreciation by the people so that these resources continue to enhance the quality of life of all Ohioans



N A T I O N A L
E S T U A R I N E
R E S E A R C H
R E S E R V E
S Y S T E M

To promote stewardship of our nation's estuaries through science and education using a system of protected areas

Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



What is a freshwater estuary?

- Semi-enclosed coastal wetland; drowned stream mouth due to glacial rebound
- Mixing area for Lake and stream





Education



Research

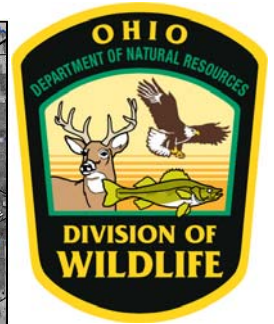
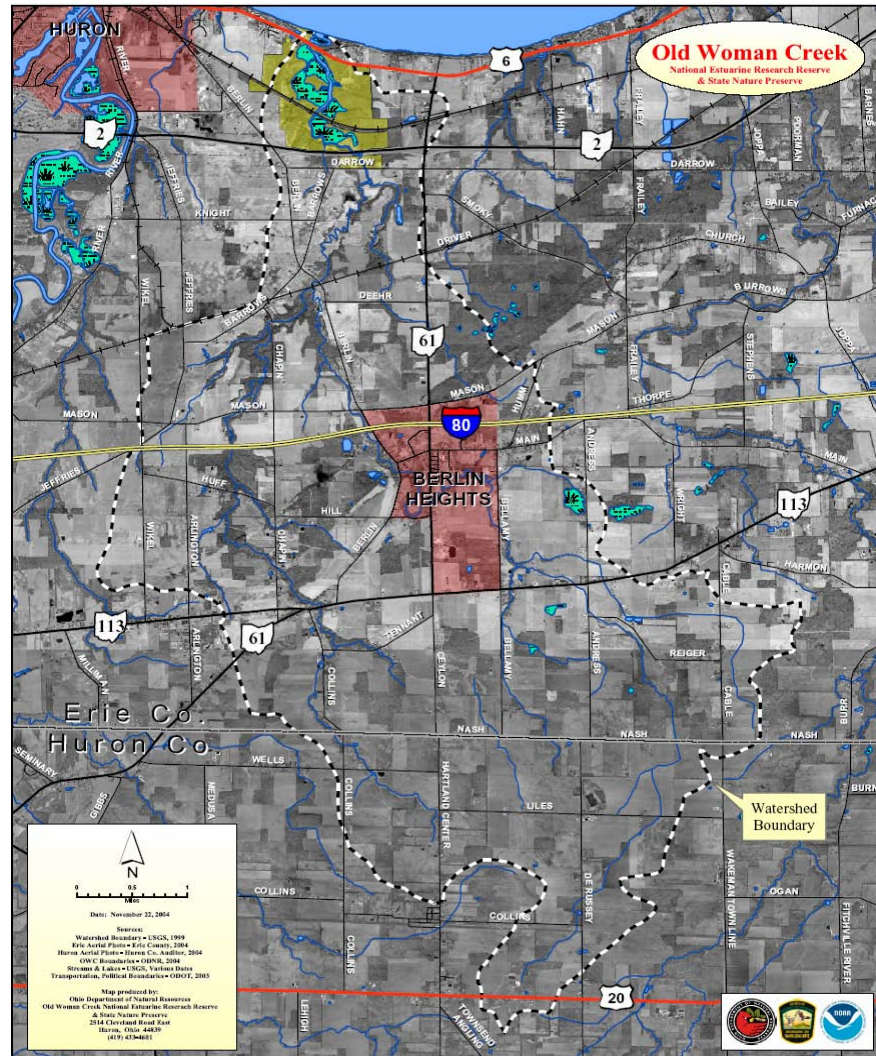


Stewardship

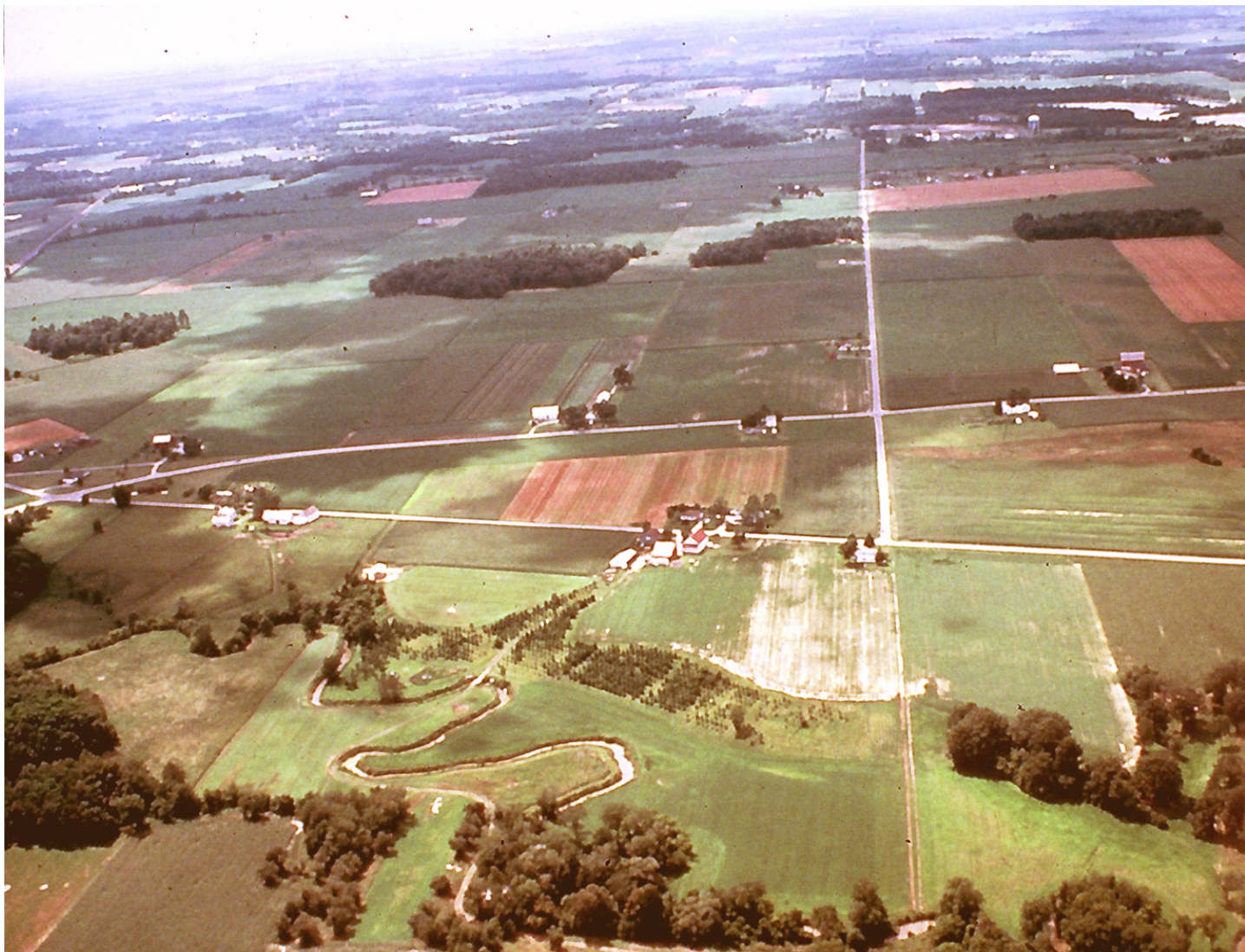


Old Woman Creek NERR & SNP

Old Woman Creek Watershed



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



The importance of estuaries



Old Woman Creek NERR & SNP



The importance of estuaries



Old Woman Creek NERR & SNP

The importance of estuaries



Old Woman Creek NERR & SNP

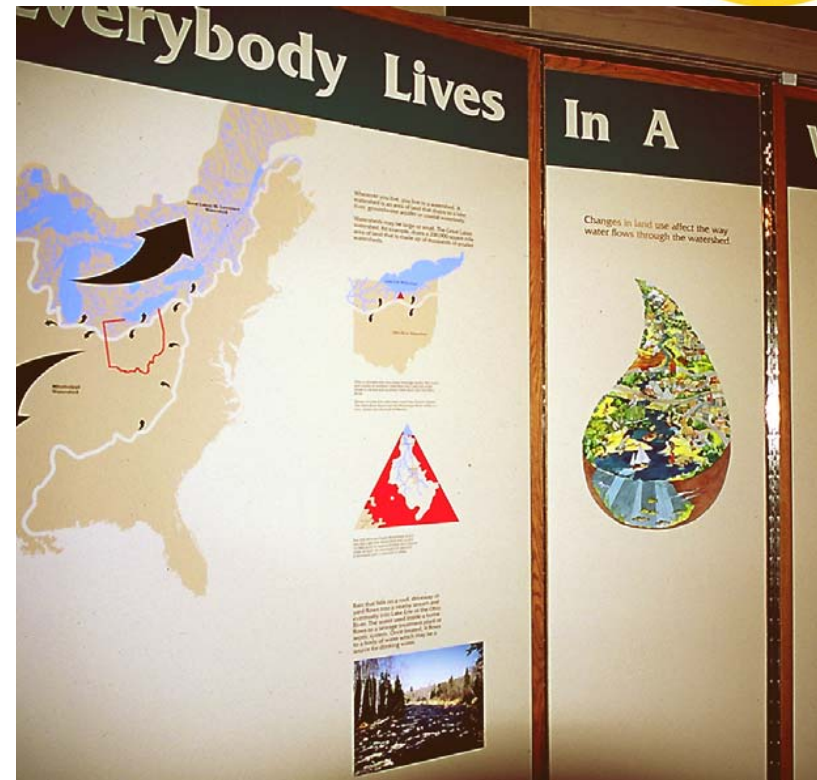


Estimated Unit Values of Ecosystems

Ecosystem	Unit Value (U.S. \$ ha ⁻¹ yr ⁻¹)
Estuaries	22,832
Wetlands	14,785
Lakes/Rivers	8,498
Forests	969
Grasslands	232

Source: Costanza et al.

Old Woman Creek NERR & SNP



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Old Woman Creek NERR & SNP

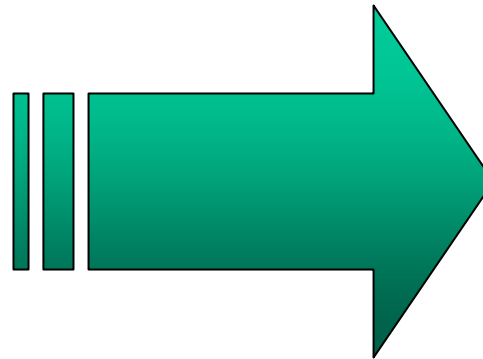


Old Woman Creek NERR & SNP

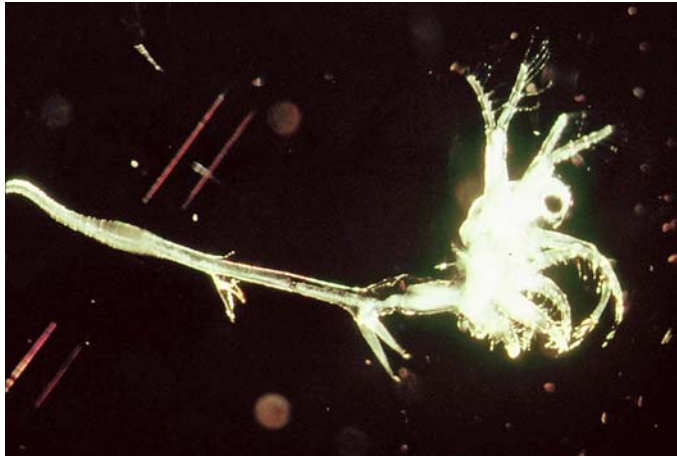
High Lake Levels



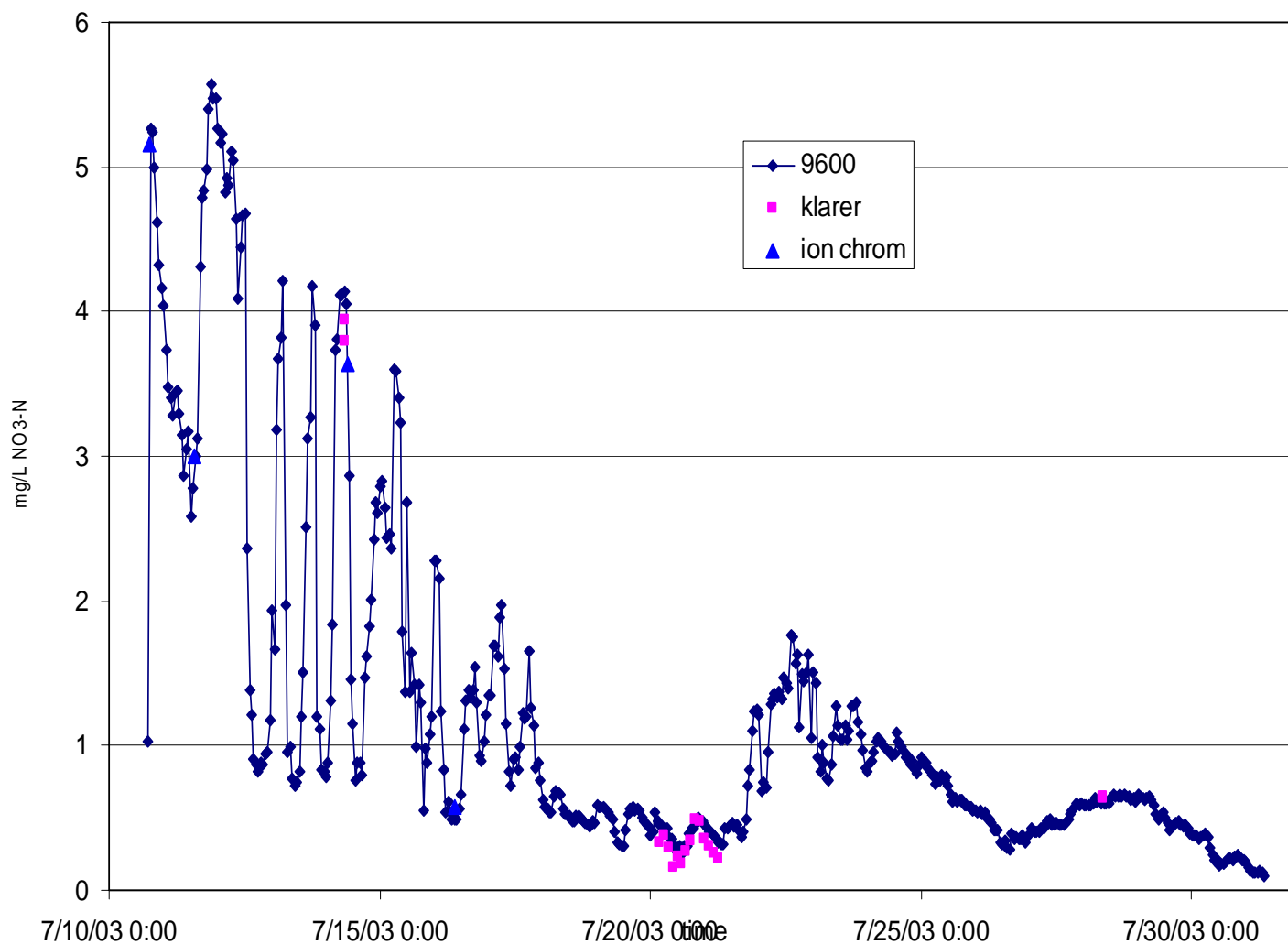
Low Lake Levels



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP



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Old Woman Creek NERR & SNP



Old Woman Creek NERR & SNP

Draft Report of the IAFWA Task Force on State Contributions to NAWMP/NAWCA Projects In Canada

**MAFWA
Huron, OH
July 12, 2005**



Charge to the Task Force:

- **Review the status and future direction of the states' and IAFWA's commitment to NAWMP & NAWCA waterfowl habitat conservation projects in Canada...**



Charge to the Task Force:

- **review the \$10 million goal in the resolution passed by IAFWA in 1991**
- **review individual state's goals**



Background:

- **NAWMP signed in 1986**
- **IAFWA turned attention to its implementation**
- **Need for funding a high priority**



Background:

- **NAWCA passed in 1989**
- **1990 IAFWA Ad Hoc NAWMP Implementation Committee**



1989 NAWCA included two significant challenges:

- 1. $\geq 50\%$ of federal funds had to be spent outside the U.S.;**
- 2. all of those federal funds required $\geq 1:1$ match by U.S. non-federal funds.**



Effect of those requirements:

- **NAWCA funds for projects in states only available to the extent that non-federal funds matched NAWCA \$\$\$ required to be spent outside the U.S.**
- **Created collective obligation on all non-federal partners to provide funding for projects in Canada**



IAFWA 1991 Resolution:

“...the IAFWA shall strive to maximize state support in the range of \$10 million per year from the states as U.S. matching funds for NAWMP projects in Canada and that the NAWMP Imp. Comm. continue to explore...ways and means of achieving this goal.”



Individual State Goals:

- **\$10 million apportioned among states based on active adult waterfowl hunters and waterfowl harvests of the 1980s**

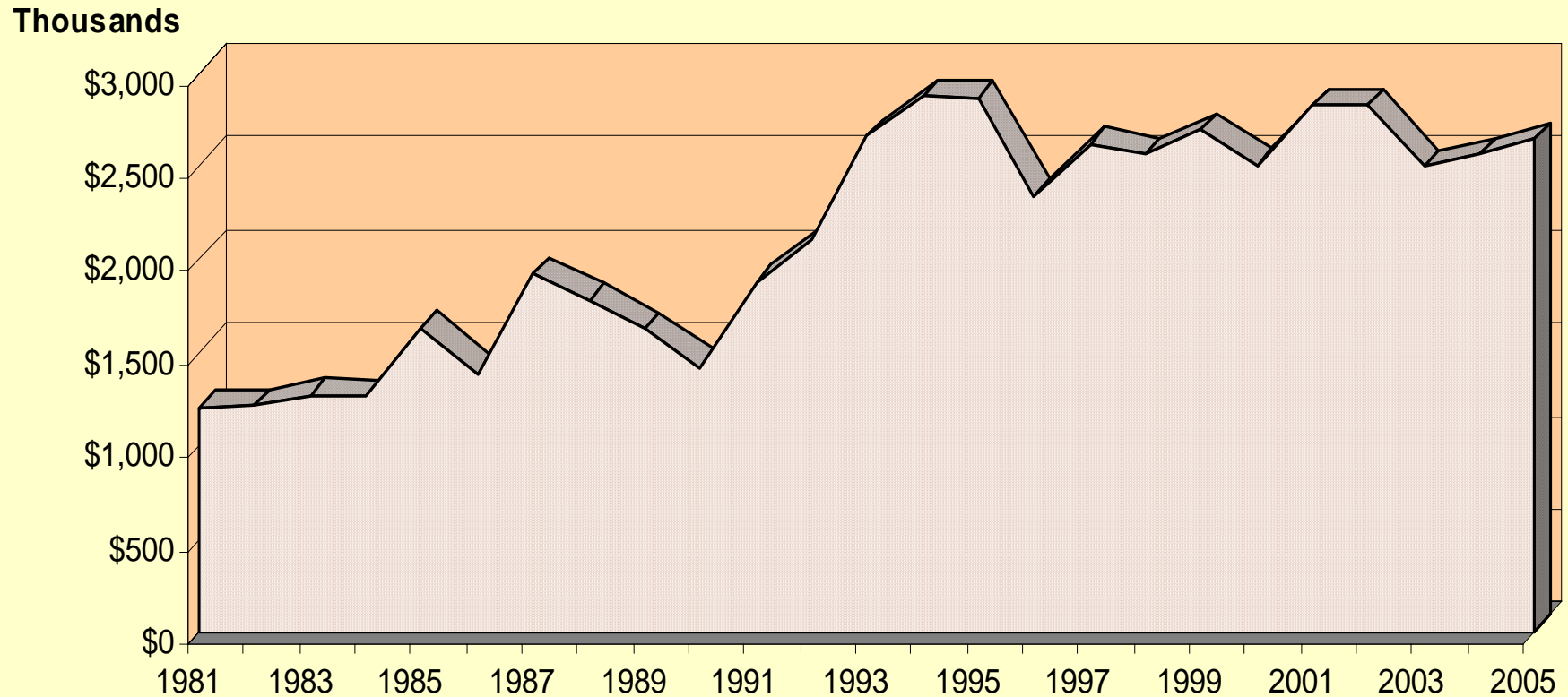


Ducks Unlimited Response to NAWCA & IAFWA Resolution:

**DU pledged to match all
state contributions to
habitat projects in Canada**



State Contributions to Waterfowl Habitat Conservation in Canada



NAWCA/NAWMP STATE GRANTS: LEVERAGING STATE CONTRIBUTIONS FY2004

\$2.64 million from 30 States

+\$2.64 million match by Ducks Unlimited Inc.

\$5.28 million non-federal NAWCA match

+\$5.28 million NAWCA funds

\$10.56 million total from the U.S. to Canada

+\$3.52 million Canadian funds

***\$14.08 million total for waterfowl habitat
conservation in Canada***



Non-federal match to support Habitat projects in Canada, 1991-2004:

- **States: 15.0% (\$ 34.3 M)**
- **DU: 76.5% (\$175.1 M)**
- **Other: 8.5% (\$ 19.7 M)**

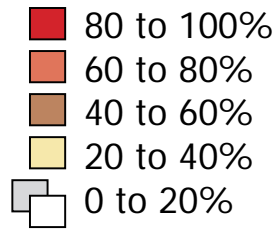


Task Force Recommendation #1:

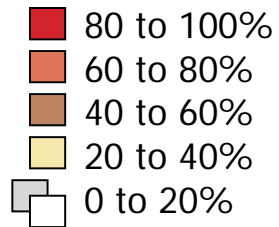
That IAFWA retain the original \$10 million annual goal, and reaffirm its commitment to making progress toward that goal.

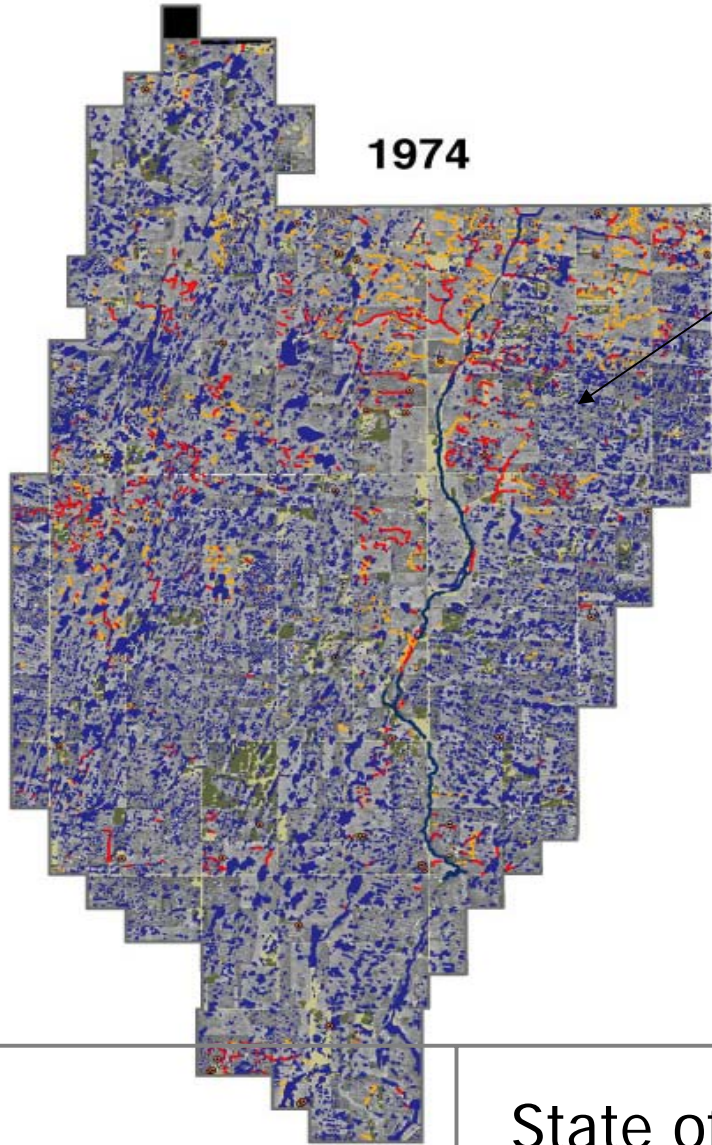


Historic Wetland Losses



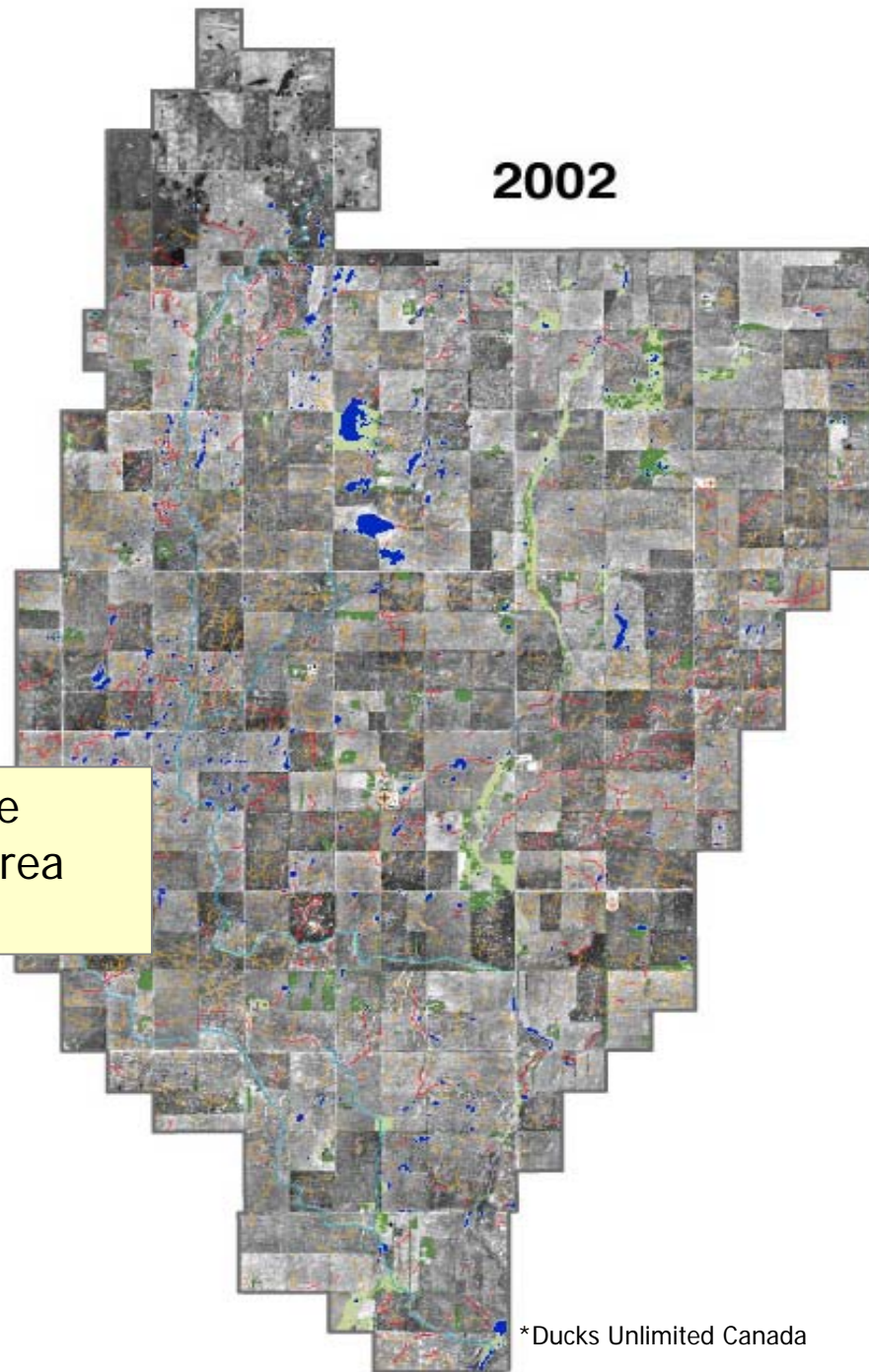
Historic Associated Upland Losses





1974

Multitude of
Wetlands
(blue)



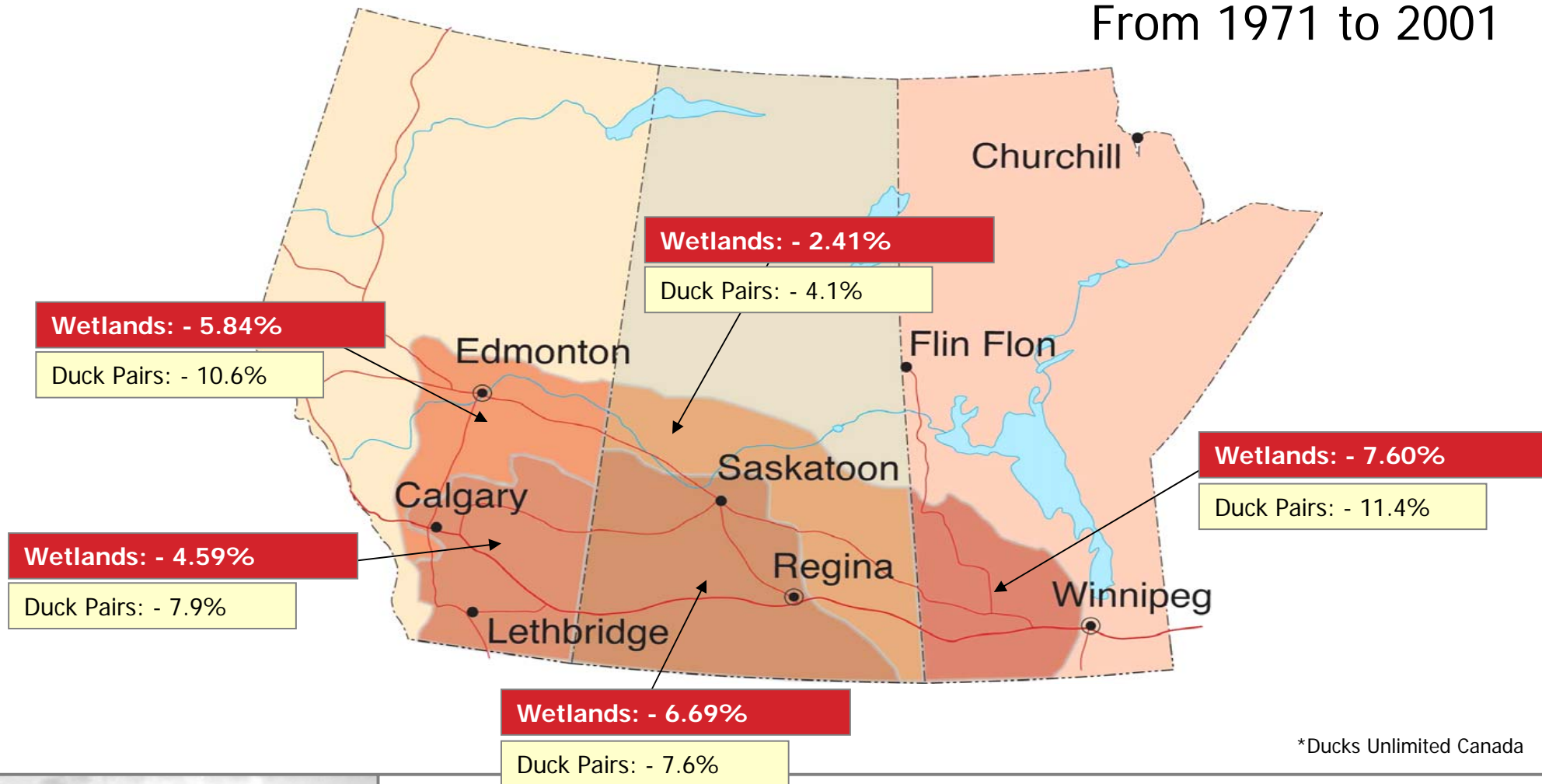
2002

90% of the
Wetland Area
Lost

State of Wetlands
1974-2002
St. Gregor, Saskatchewan



From 1971 to 2001



Wetland Losses Directly Impact Duck Pairs
From 1971 to 2001
Average Duck Pair Loss - 8.32%

NAWMP ACCOMPLISHMENTS IN CANADA: 1986-2004

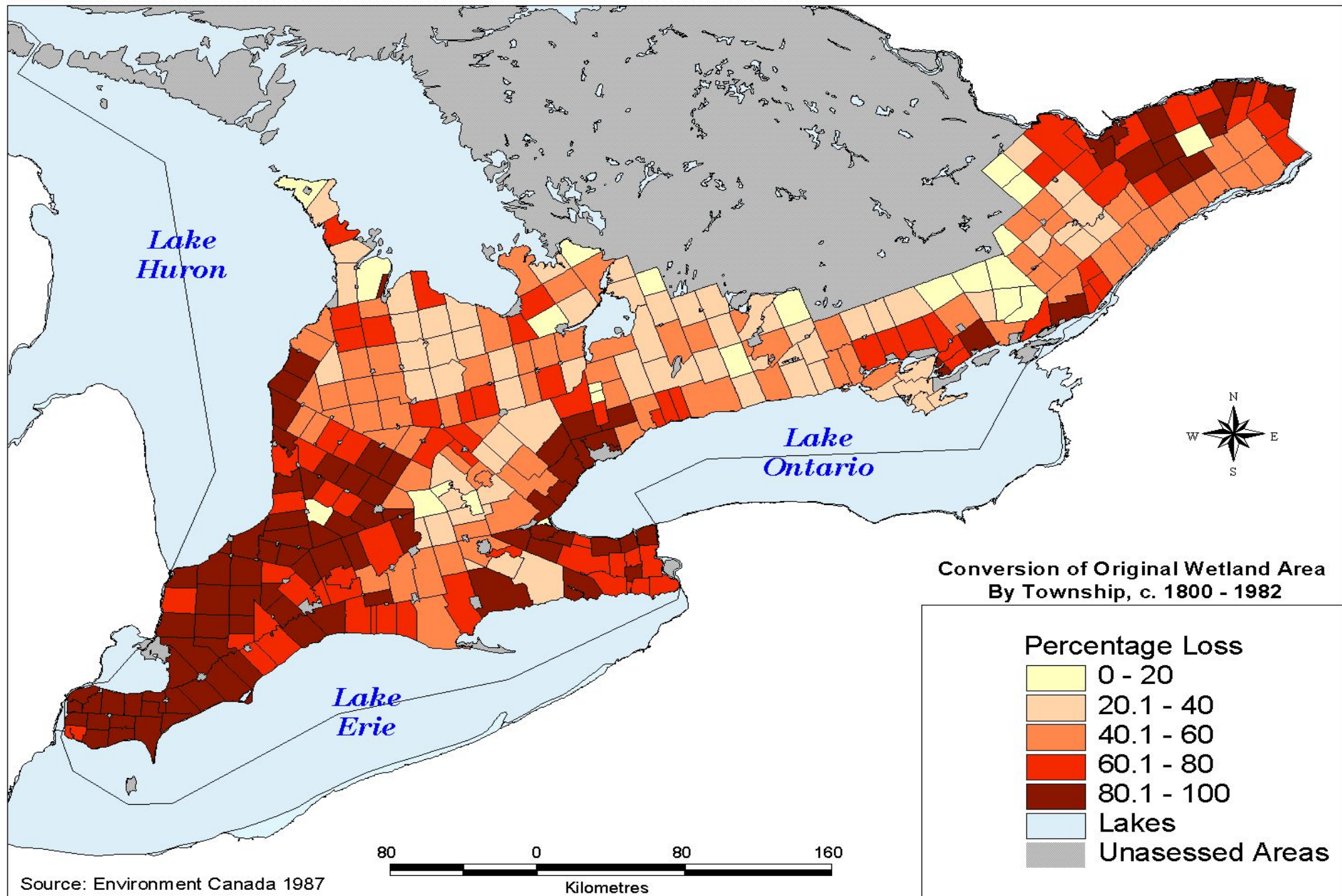
	<u>Goal</u>	<u>Secured</u>
	(millions acres)	
<i>Prairie Habitat JV</i>	6.67	4.60
<i>Pacific Coast JV</i>	0.39	0.11
<i>Eastern Habitat JV</i>	1.44	0.85



Funding

The ambitious goals of the Coteau Legacy Plan are estimated to cost in excess of \$100 Million over the next 20 years.



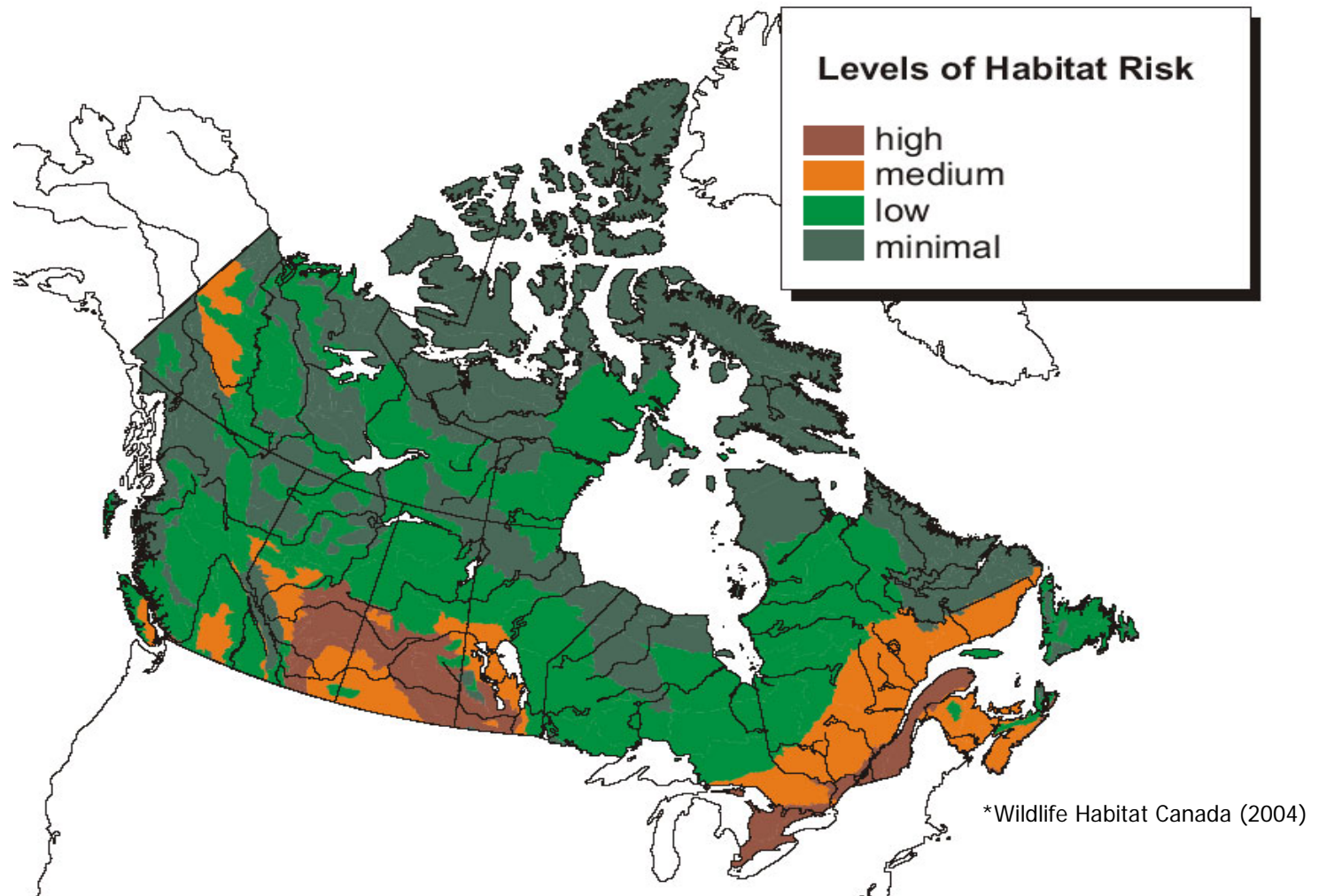


Agricultural Landscapes

- Some agricultural areas have lost 90% of their freshwater wetlands.
- Waterfowl production is limited by the availability of freshwater wetlands.



Ducks Unlimited Canada
CANADA'S CONSERVATION COMPANY



Current Level of Risk to
Wildlife Habitat in Canada

Task Force Recommendation #2:

Use active adult waterfowl hunters and duck harvests from the 1970s, 1980s, and 1990s as the foundation for an updated apportionment of the \$10 million goal.



***Original 1991
IAFWA Goals
For State
Contributions
To Canada
NAWMP/
NAWCA
Projects***

Colorado-----	\$202,000
Illinois-----	\$306,000
Indiana-----	\$ 74,000
Iowa-----	\$226,000
Kansas-----	\$147,000
Kentucky-----	\$ 58,000
Michigan-----	\$288,000
Minnesota-----	\$772,000
Missouri-----	\$220,000
Nebraska-----	\$188,000
North Dakota-----	\$230,000
Ohio-----	\$138,000
South Dakota-----	\$177,000
Wisconsin-----	\$478,000



***Draft
State Goals
Based on
Hunter/Harvest
Data for the
1970s, 1980s,
and 1990s***

Colorado-----	\$180,000
Illinois-----	\$310,000
Indiana-----	\$ 87,000
Iowa-----	\$208,000
Kansas-----	\$167,000
Kentucky-----	\$ 74,000
Michigan-----	\$316,000
Minnesota-----	\$704,000
Missouri-----	\$219,000
Nebraska-----	\$177,000
North Dakota-----	\$241,000
Ohio-----	\$150,000
South Dakota-----	\$185,000
Wisconsin-----	\$484,000



Task Force Recommendation #3:

The relationship between state funding provided for NAWCA projects in Canada and NAWCA funding received for in-state projects should be reviewed by each state as a consideration in assessing appropriate contribution levels to NAWCA projects in Canada.



Cumulative Contributions

<u>State</u>	<u>To Canada Since 1991</u>	<u>NAWCA Grants</u>
Colorado	\$ 549,000	\$ 4,596,400
Illinois	\$5,095,475	\$ 5,909,841
Indiana	\$ 734,742	\$ 8,550,000
Iowa	\$ 472,536	\$ 8,988,581
Kansas	\$ 169,707	\$ 7,281,394
Kentucky	\$ 325,000	\$ 3,906,835
Michigan	\$ 0	\$ 7,614,047
Minnesota	\$ 511,220	\$20,488,846
Missouri	\$2,675,538	\$10,733,201
Nebraska	\$ 563,000	\$ 2,828,870
North Dakota	\$ 90,000	\$15,217,894
Ohio	\$1,661,673	\$ 4,498,270
South Dakota	\$ 75,000	\$ 6,030,403
Wisconsin	\$2,188,001	\$15,118,708



Task Force Recommendation #4:

That each state should strive to establish a minimum annual contribution of at least \$25,000.



Task Force Recommendation #5:

That each state develop a five-year plan to progress toward their individual state's goal by 2010.



Task Force Recommendation #6:

Review Process:

- **Each Regional Association should review at spring/summer 2005 mtgs.**
- **Provide comments to Task Force by 1 August 2005.**
- **Final report, recommendations and resolution to IAFWA Business Meeting in September 2005.**



***IAFWA Task Force on State
Contributions to NAWMP/NAWCA
Projects In Canada***

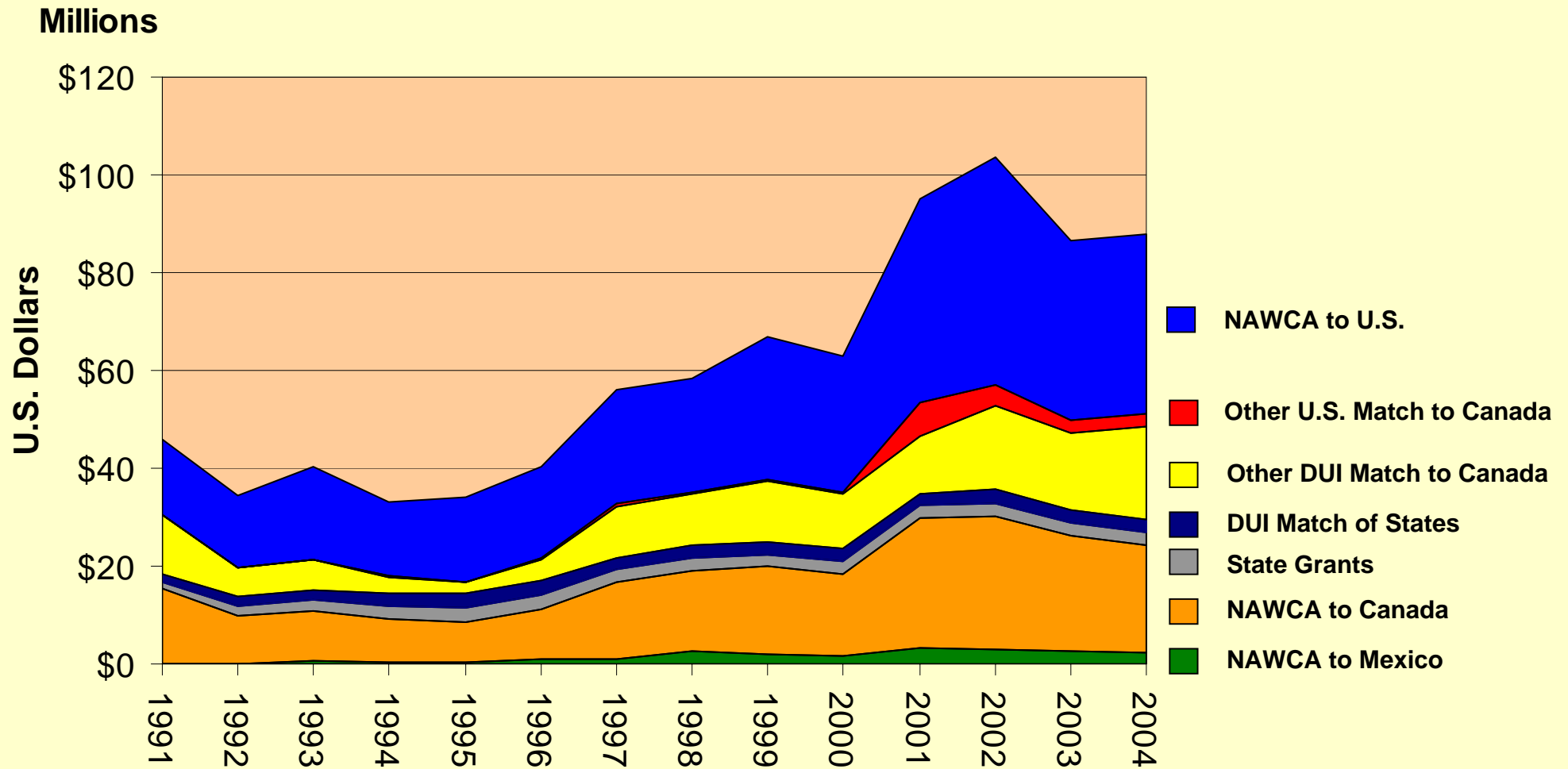
QUESTIONS?



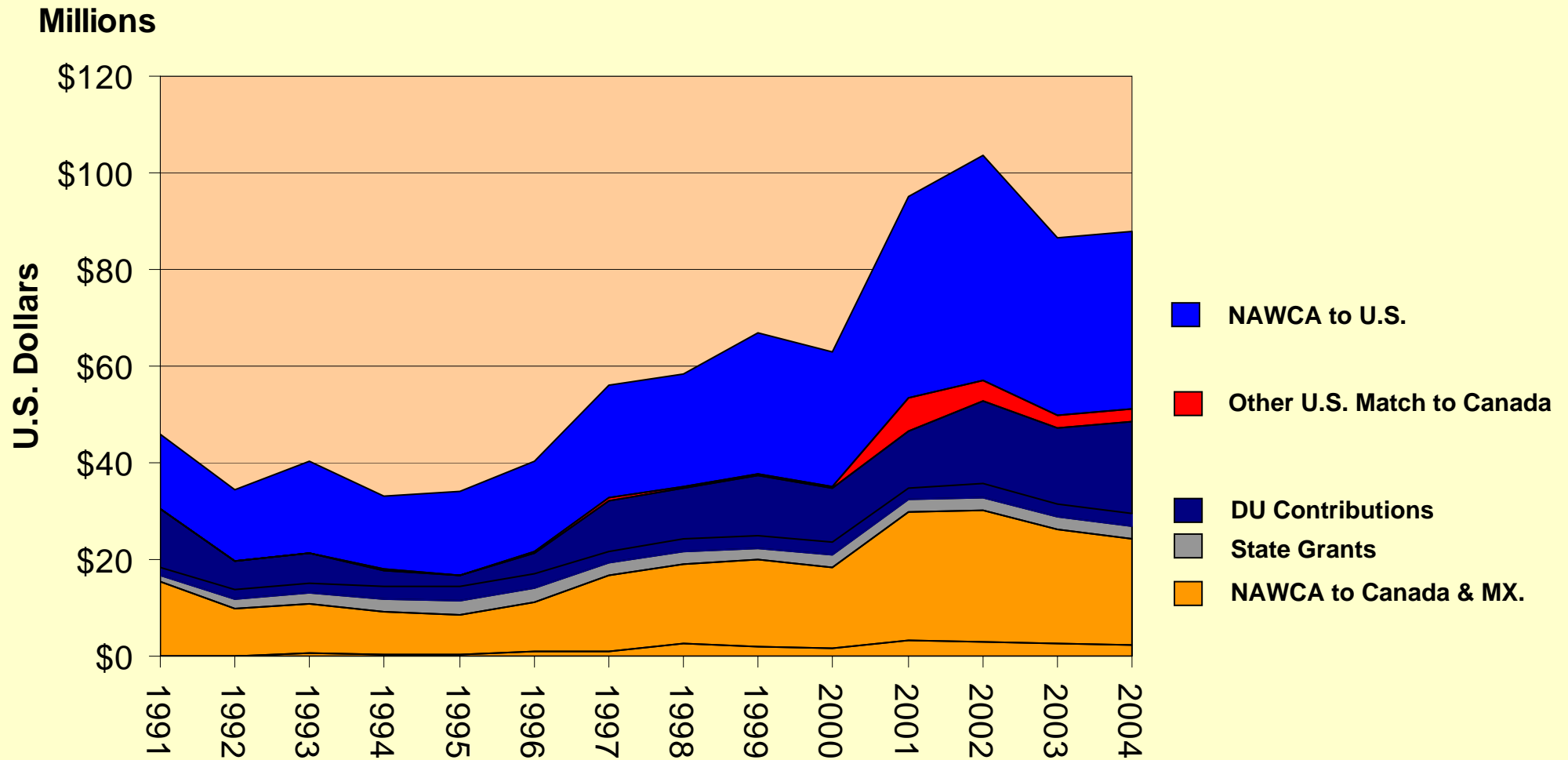
EXTRA SLIDES.....



NAWCA and U.S. Non-Federal Match: State Contributions



NAWCA and U.S. Non-Federal Match: State Contributions



Estimated Threat to Habitat in Next Five Years



COTEAU LEGACY PROJECT GOALS:

Protect 2 million acres of existing prairie grassland and associated upland habitats and 0.5 million acres of wetlands from any further loss or degradation.

- Work with governments to develop wetland and grassland protection policies
- Implement a rangeland stewardship program on 100,000 acres
- Permanently protect 26,000 acres of critical habitat with conservation easements, purchase high value habitat
- Remove the tax burden on 56,000 idled acres through property tax credits.

