Using the State Wildlife Action Plans Case Studies in Strategic Conservation

Jeff Lemer - Defenders of Wildlife Joe McGovern – Iowa Natural Heritage Foundation Michael Whitfield – Teton Regional Land Trust Mark Shaffer – Doris Duke Charitable Foundation



Defenders of Wildlife

...is dedicated to the protection of all native wild animals and plants in their natural communities.

New approaches that keep species from becoming endangered

Protect entire ecosystems and interconnected habitats



Living Lands:

Helping Land Trusts Conserve Biodiversity



Living Lands Mission

• To support and increase the capacity of the land trust community to conserve biodiversity on private lands through financial and technical assistance.



Living Lands Project: Why Now?

- Standard 8 (Conservation value, Public benefits)
- IRS and taxpayers need conservation donations to be worthy of a federal tax benefit
- Land trusts need to document "conservation purposes" in easement language
- Funders want strategic planning
- New State Wildlife Action Plans (AKA comprehensive wildlife conservation strategies)

Defenders of Wildlife
Living Lands Project



Road Map

• State Wildlife Grants program

State Wildlife Action Plans

• Implementation of Plans

Land Protection efforts

Biodiversity Loss

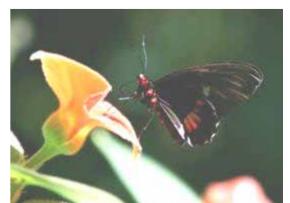
- 1,272 species listed as threatened or endangered
- Estimated additional 15,000 species at risk in the U.S.
- Habitat loss is a leading cause of species imperilment in the U.S.













Habitat Loss

Development:

- 10.4 million acres of forest lost between 1982 and 1997
- Estimated 44.2 million acres of forest land lost by 2030
- 60% of rare and imperiled species in the United States are found within the boundary of a metropolitan area



Poweshiek Skipper Courtesy of MN DNR



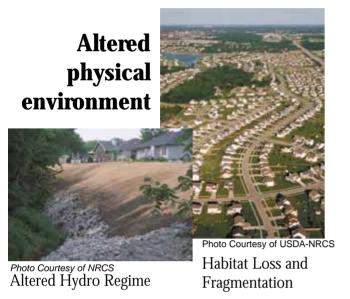
Grizzly Bear Photo Courtesy of FWS

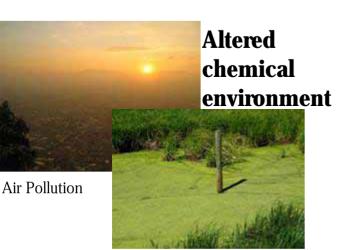
Highways:

- Each mile of highway affects 48 acres of land
- Transportation Infrastructure alters 1/5 of the land area in the United States



Ecological Impacts





Water Pollution

Modified Behavior



Reduced Nesting Success



Road Kill



Solutions?

- Land acquisition and protection
- Integrate conservation and land use decisions
- Need access to species and habitat data
- Need knowledge of ecosystem processes



Photos Courtesy of NRCS





Photos Courtesy of NRCS



TheManWhoWasn'tThere



State & Tribal Wildlife Grants Program

State & Tribal Wildlife Grants

- Established in 2000 through Interior Appropriations administered by USFWS
- Focus on Species of Greatest Conservation Need (SGCN) to avoid future listings
- Non-regulatory proactive solution
- State Comprehensive Wildlife Conservation Plans completed October 2005
- Defenders played leading role in establishing program



Importance of State Wildlife Grants Program

- **Conservation Planning** Most states have never done a comprehensive wildlife plan
- Habitat Conservation Habitat loss is the main problem for wildlife. Plans can map out habitat areas to conserve
- Policy Connections To address habitat, plans can be used to inform land use decisions
- Funding Plans can be used to inform other funded planning & conservation investments



State Wildlife Action Plans

State Wildlife Action Plans

State and Tribal Wildlife Grants Program

Created by State Fish and Wildlife Agencies

Proactive, non-regulatory conservation

Comprehensive Assessments & Strategies:

- Priority species
- Priority habitats
- Conservation threats
- Conservation actions





Conservation Information

Species of Greatest Conservation Need



Sharp-tailed Grouse, MT



Karner Blue Butterfly, NH



californiaherps.com
Great Plains Narrow
Mouthed Toad, AZ



Charles and Clint
Painted Bunting, GA

Key Habitats



NGS Short Grassland Prairie, MT



TNC Pine Barrens, NH



californiaherps.com

Semi-Desert Wetland, AZ



Brevardparks.com

Scrub Shrub, SE U.S.



Wildlife Plans Review

Essential Questions:

Where should we work?

(Conservation planning is a spatial exercise)

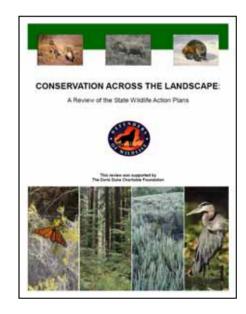
What should we do when we get there?

(Conservation Goals & Actions)

What do we do first?

(Prioritization)

Summary of Results in Defenders report:
 "Conservation Across the Landscape: A Review of the State Wildlife Action Plans"



Review Criteria

Eight Elements

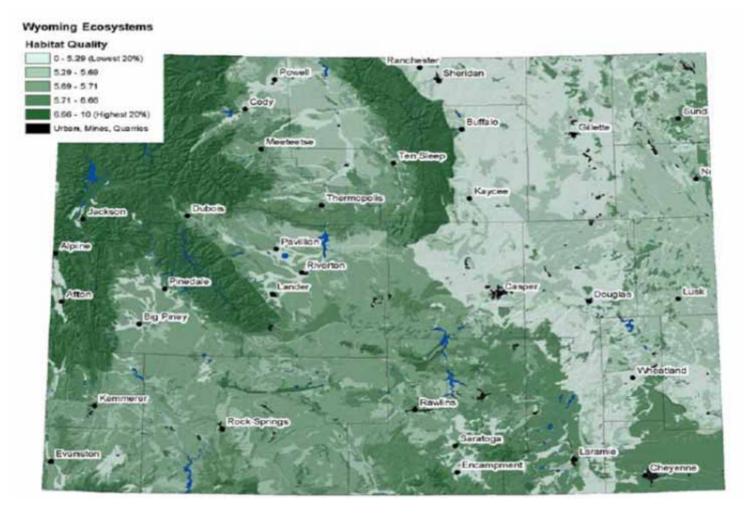
- Species
- Habitat
- Threats
- Actions
- Monitoring
- Coordination
- Periodic Review
- Public Participation

Additional Categories

- Goals
- Maps
- Methods
- Leadership
- Policy Connections
- Funding
- Format

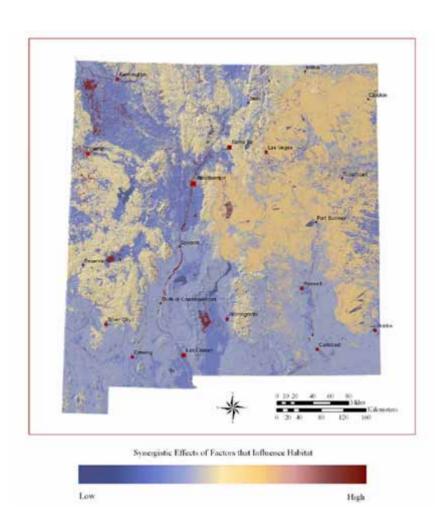


Assessments of Wildlife



Source: Wyoming Game & Fish Department, 2005

Assessments of Wildlife



Threats Map: Synergistic Effects of Factors that Influence Habitat

(NMGFD, 2005)

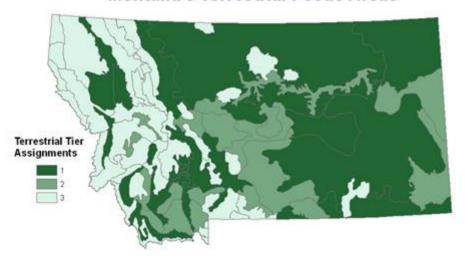
Habitat Conservation: Mapping is Key



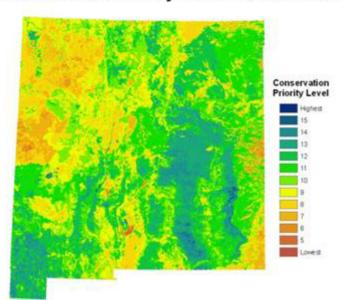
50% of States produced maps showing conservation focal areas



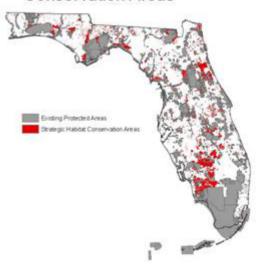
Montana's Terrestrial Focus Areas



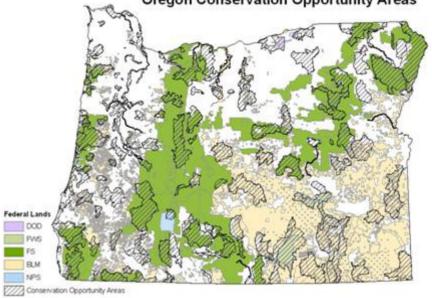
New Mexico's Priority Conservation Areas



Florida's Strategic Habitat Conservation Areas









Strategy & Implementation

Goals: 28% of plans included specific & measurable goals

Illinois Coastal Plain Natural Division:

"By 2020, increase land in public ownership within the project area to 60,000 acres; achieve partial reconnection of the Upper and Lower Segments of the Cache River by 2010; reduce peak flows in Big Creek by 25%" (pp. 128).

Source: Illinois Department of Natural Resources, 2005



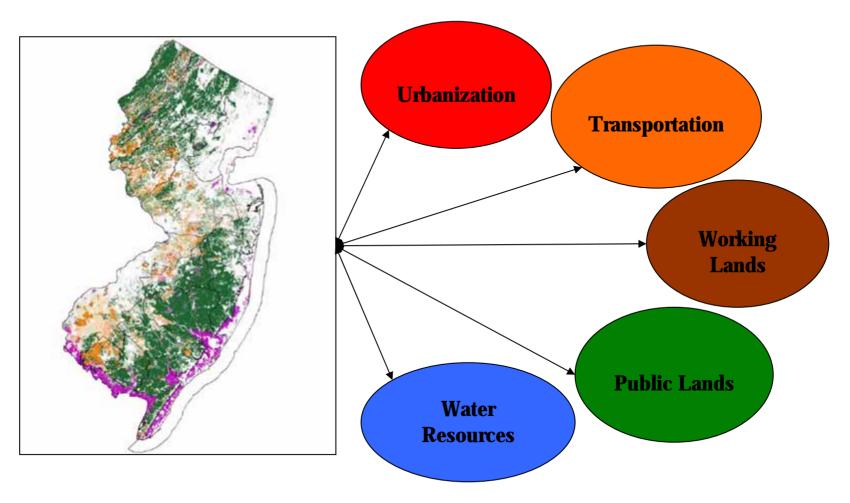
Strategy & Implementation

Actions: 60% of plans prioritized actions

Planning and Standards:

Overall Rank	Action	Feasibility	Benefits	Cost
H	Explore ways to protect natural lands and commercial forests from conversion that are outside an Urban Service Boundary. Develop incentives to take into consideration wildlife, habitat, and available water resources.	L	VH	М
н	Convene a coalition of appropriate stakeholders (for example, conservationists, state natural resource agencies, agricultural interests, and major development and economic interests in Florida) to develop voluntary and incentive-based opportunities and methods for more ecologically friendly development and to develop additional resources to protect, acquire, and manage natural lands identified in the "Cooperative Conservation Blueprint" process.	М	н	М
М	Support retention of the designations of Areas of Critical State Concern (http://ccgov.carr.org/plan-d/manchester/chapter8.pdf) for the City of Apalachicola, City of Key West, Green Swamp, Florida Keys (Monroe County), Big Cypress Swamp (Miami-Dade, Monroe, and Collier counties).	н	М	L
М	Encourage public/private partnerships to cooperatively help guide development design and implementation with the goal of maximizing protection and proper management of natural habitat identified in the "Cooperative Conservation Blueprint."	М	М	М

Conservation Plans & Policy Connections



Conservation plans should address land use decisions that cause habitat loss



Development threats to wildlife



- All 51 Plans indicated that development is an issue for wildlife
- 8 Plans indicate that development is *the greatest threat* to wildlife in their state
- 17 Plans indicated that development is *a top threat* to a specific region or habitat
- 12 Plans indicated that development is *a significant issue* of concern



Funding: Strategic Investment in Habitat Conservation

- The U.S. spends approximately \$3 Billion a year on land conservation.
- State Wildlife Grants provides \$65 million a year for wildlife planning, research and some habitat conservation.
- More strategic use of land conservation spending for habitat values is critical and achievable with conservation plans.

What Can Land Trusts Do?

- Learn about your state wildlife action plan
- Ask states to tell you where it is most important to protect wildlife habitat
- Invest your time and dollars strategically in those places
- Make use of incentive programs to restore or manage habitat and implement actions
- Help your state improve its wildlife plan

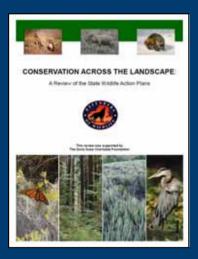


Questions:

Was anyone involved in developing their state's wildlife action plan?

Do you see opportunities to use your state's information or plan?

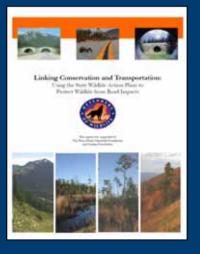




www.defenders.org/statewildlifeplans

www.wildlifeactionplans.org





Contact:

Jeff Lerner

jlerner@defenders.org

(202) 682 9400





Upper Midwest Wildlife **Habitat Protection Initiative**

New DDCF Land Protection Initiatives

Goals

- Protect key habitats
- > Stimulate SWAP implementation
- Create a national wildlife conservation system
- Engage other funders

Features

- Multi-state
- Multi-year
- Capital for land
- > Implementation Activities



Upper Midwest initiative:

5 states Multiple non-profit partners



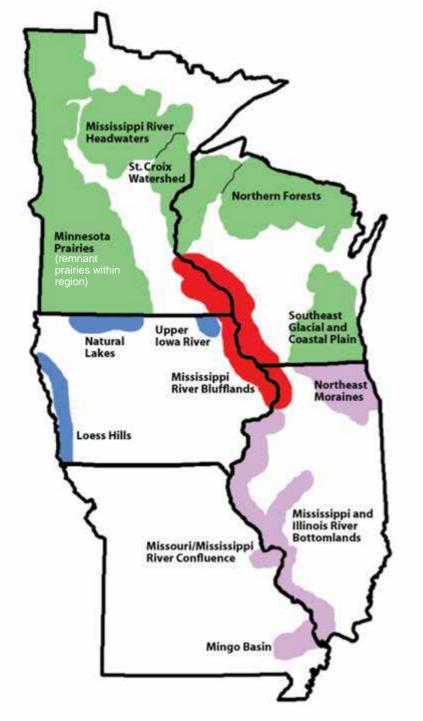
3 year initiative

\$59 million

\$10.8 million from Doris Duke Charitable Foundation





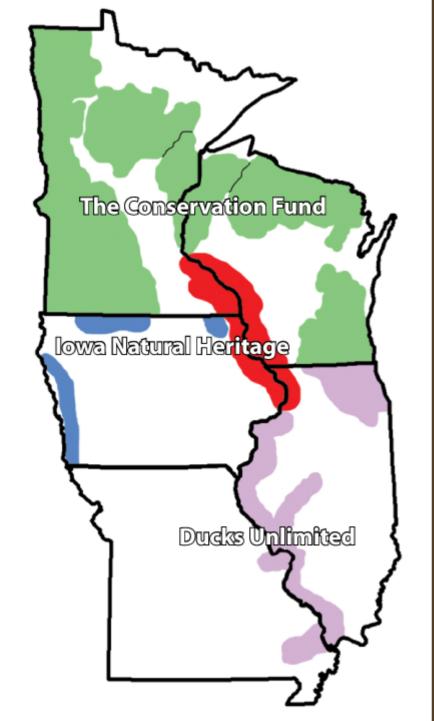


Priority land protection regions

Based on

- SWAP
- Plans & priorities of partners
- Project potential
- Partner strengths

Several adjoin at state lines



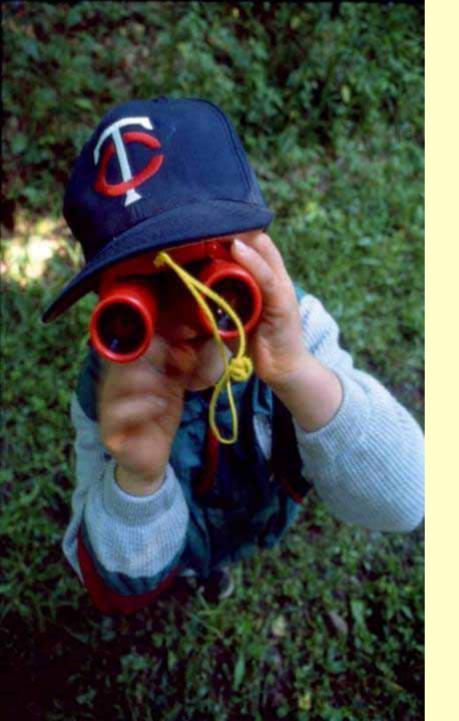
Lead Organizations

- MN & WI: The Conservation Fund
- IA and Blufflands: lowa Natural Heritage Foundation
- MO & IL: Ducks Unlimited



Capital for land protection \$9.5 million from DDCF

- For land purchase or protection by conservation easement
- 5:1 match = \$57 million in total land protection value
- Investment income also goes to land



Amplification

Strategic communications

To create fertile ground for achieving more priority habitat protection

\$1.3 million from DDCF for amplification and administration

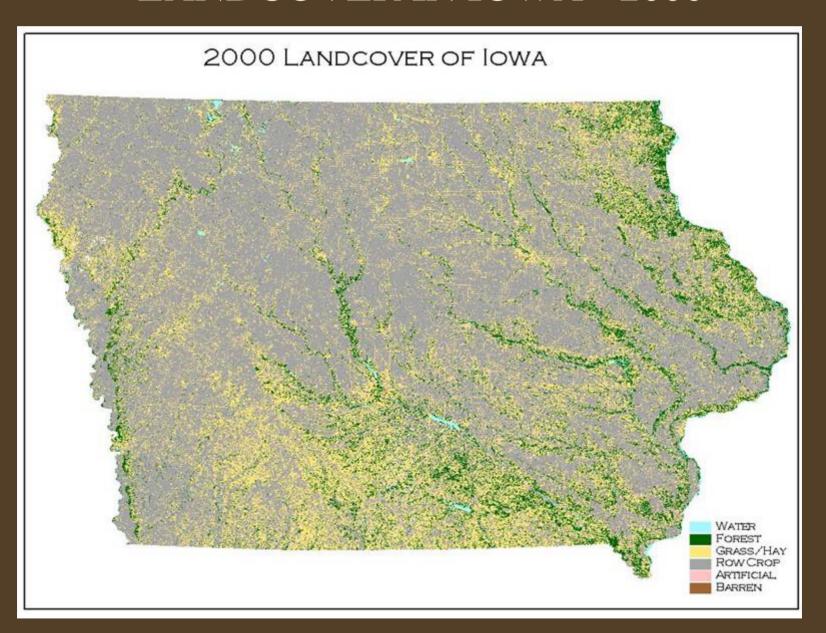
\$400,000 match needed for amplification

SWAP Advisory Group Meeting

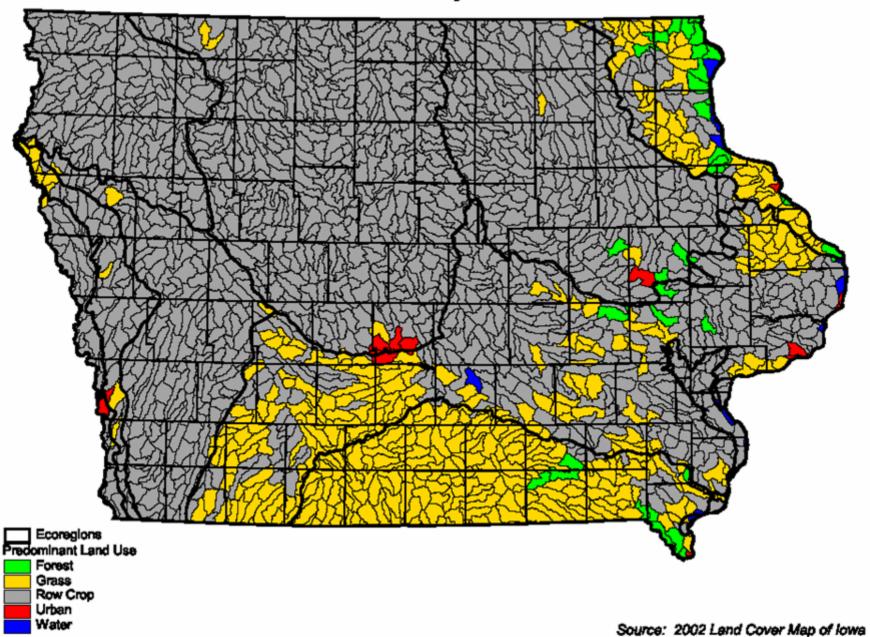
- Des Moines
- 92 Individuals
- 59 Organizations
- 36 Vision elements
- 265 Strategies



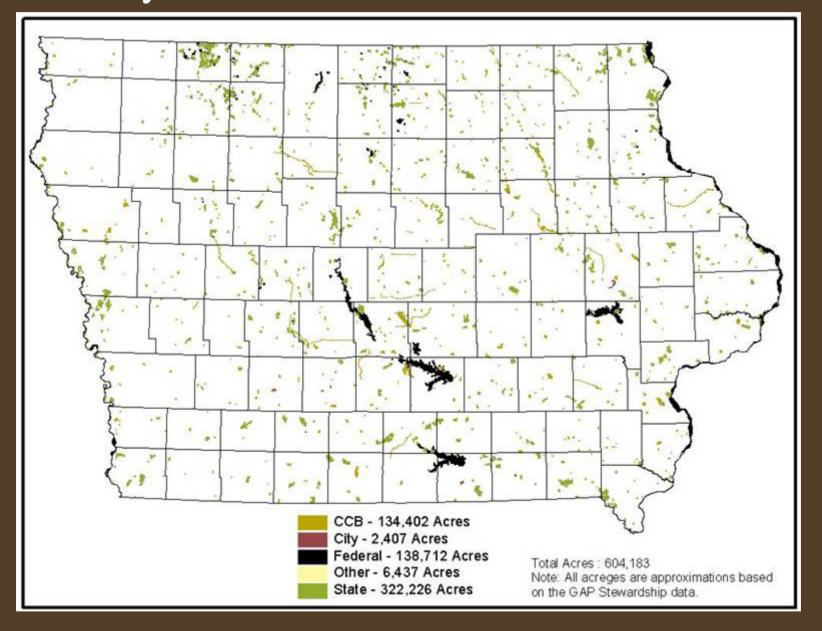
LANDCOVER IN IOWA - 2000

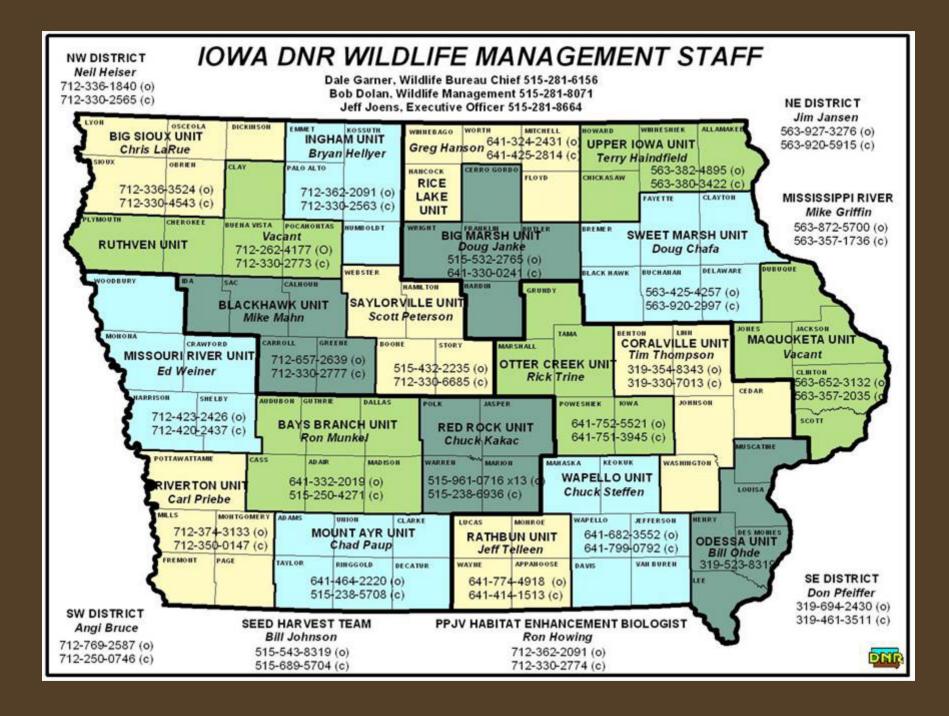


Predominant Land Use by Watershed



Publicly Owned Conservation Lands - To Scale





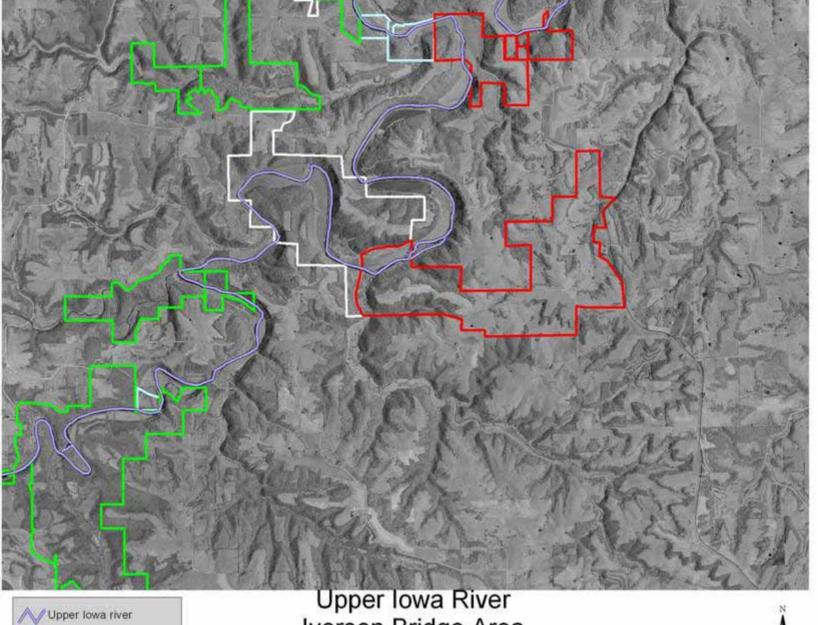


6 VISION ELEMENTS

- Viable Wildlife Populations
- Focus on Providing Habitat
- Manage for Biodiversity
- More Places to Enjoy Wildlife
- Iowans Will Value Wildlife
- Adequate and Stable Funding

IOWA's SWAP

- Goal of doubling protected land
- Funding is the major issue
- Political feasibility of more land
- Management and restoration
- Private land protection
- Private land stewardship





Upper Iowa River Iverson Bridge Area Allamakee and Winneshiek County



4000 0 4000 8000 Feet







INHF's Private Land Stewardship

- Protected Land
- LO participation
- Quality natural systems
- Land Stewardship interns
- Funded by LO and grants











Easement language to reflect stewardship

- Guide management plans and restoration practices
- Allow for Farm Bill conservation programs, cost share programs, other stewardship assistance
- Conduct land mgmt. on protected private land
- "Right, but not the obligation, to perform stewardship activities on the Property"
- Right to charge landowner mgmt. costs

Opportunities from SWAP

 Identify and protect large blocks of wildlife habitat quickly, before ecosystems are further fragmented

Improve the health of the land through mgmt. and

protection

Forge more, stronger partnerships

 Increase awareness of wildlife/conservation needs



State Wildlife Action Plans: A Resource for Conservationists

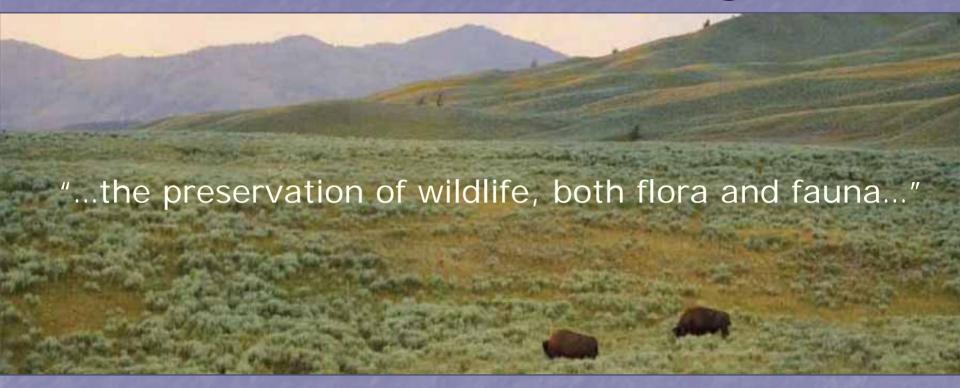


DORIS DUKE

Mark Shaffer Program Director for the Environment

Funders Meeting on October 4, 2007

DDCF Environment Program



- from the will of Doris Duke

How to fulfill her wish?



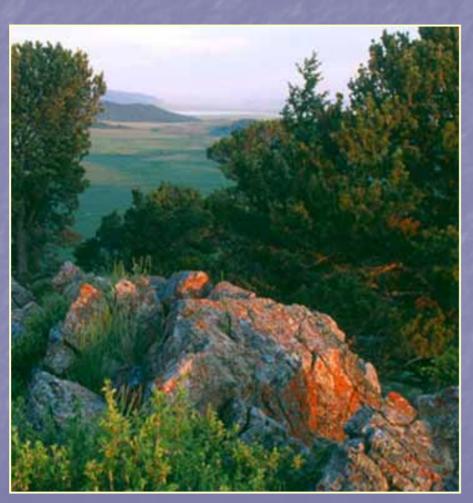
Accelerate habitat conservation for imperiled flora and fauna by *identifying critical lands* to maintain the nation's wildlife and by *directing existing and new funds* toward the protection of those lands

A Vision



Over the next three decades, the country should commit itself to creating a national wildlife conservation system

National Wildlife Conservation System A quilt of many different fabrics and colors:



- Federal government (USFWS, NPS, BLM, NFS, etc.)
- State government (state parks, WMAs, etc.)
- > Local government
- National, regional & local land trusts
- > Conservation easements
- > Private lands (working lands, etc)
- > Rentals (CRP, WRP)

Next Steps:

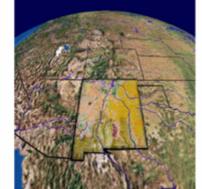
Montana's Comprehensive Fish and Wildlife Conservation Strategy

> Montana Fish, Wildlife & Parks 2005

A Comprehensive Wildlife Conservation Strategy for Wyoming

Proposed by:
Wyoning Game and Fish Department
\$400 Bishop Bird.
Cheywana, Wyoning \$2006
Approved By the Wyoning Game and Fish Com
July 12, 2005

Comprehensive Wildlife Conservation Strategy For New Mexico



Proposal by New Mexico Department of Game and Hob

In rependen with Over 170 public agencies, conservation organizations, commodity interests, municipalities, private partners, and irribal representatives.

September 21, 2005



ARIZONA'S
PREHENSIVE WILDLIFE CONSERVATION STRATEGY:
2005-2015

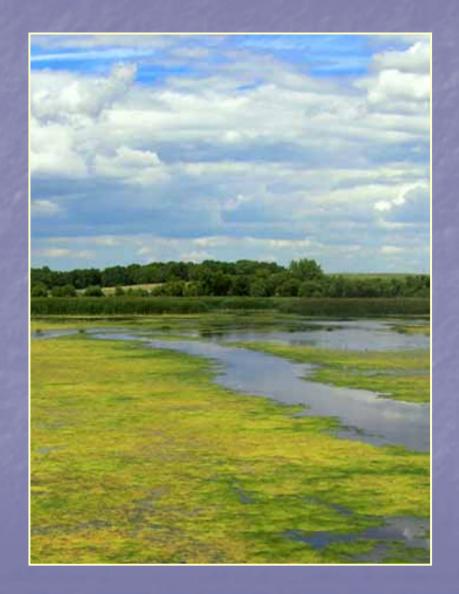


Arteria George and Fish Department 2221 West Greenway Ered Phoenia, Arienta 13023-4399

May 24, 20

Why Focus on State Plans?

- Proactive Address species loss before crisis
- State-based official status at right level of government in age of devolvement
- Incentive-driven collaborative, not regulatory approach
- Spatially explicit process enables maps to direct protection efforts
- Leverage public and private funds – can bring many partners to table



DDCF Role To Date



- Encourage Development of Excellent Plans
- Support Outreach and Education about Plans
- Encourage Use of Plans by Non-Wildlife Agencies
- > Stimulate New Conservation Finance
- Fund Training, Education and Research

Using Action Plans



- > Use Plans to Steer DDCF Land Investments
- > Provide Resources to Capture Momentum in the Community
- Encourage Better Targeting of Existing Programs through Plans
- > Expand State, Local and Private Funding Linked to Strategies
- > Provide Federal Matching Grants Linked to Plans

Land Protection Initiatives



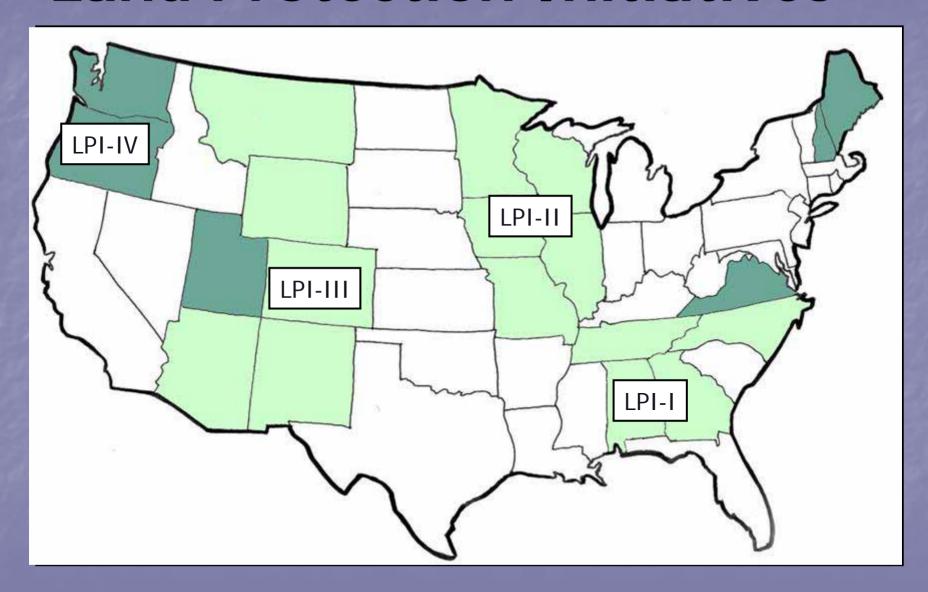
Goals

- > Protect key habitats
- > Stimulate implementation
- > Engage other funders
- > Spillover effect

Features

- > Multi-state
- > Multi-year
- > Capital for land
- > Implementation Activities

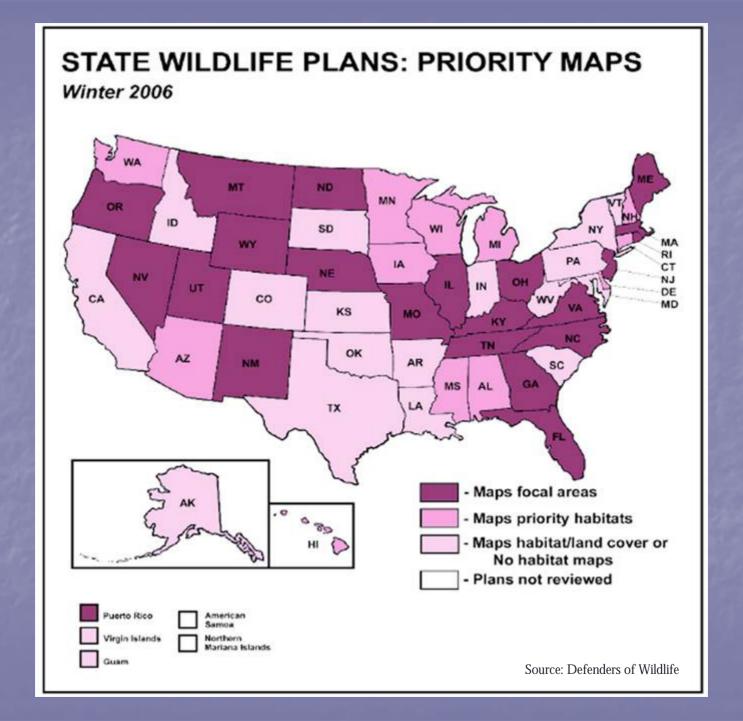
Land Protection Initiatives

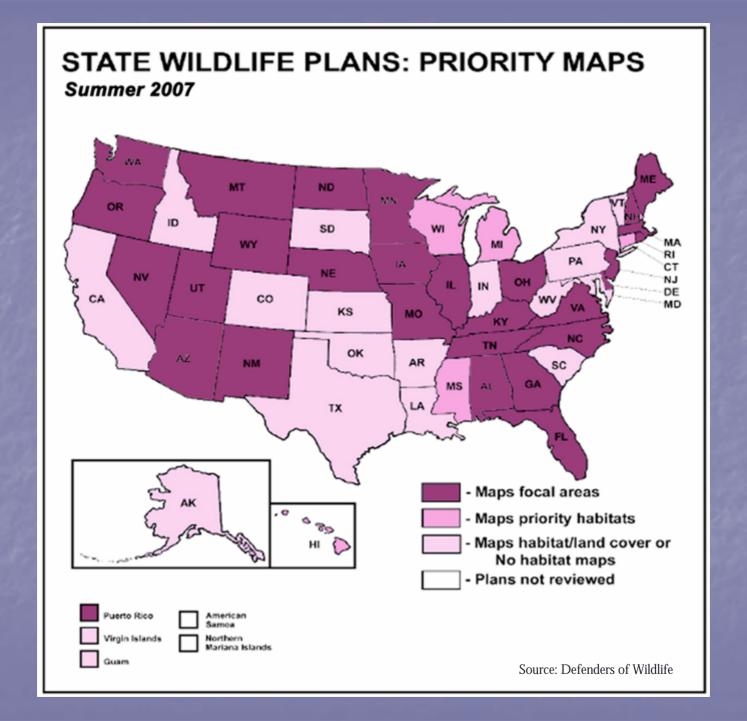


Future DDCF Land Investments

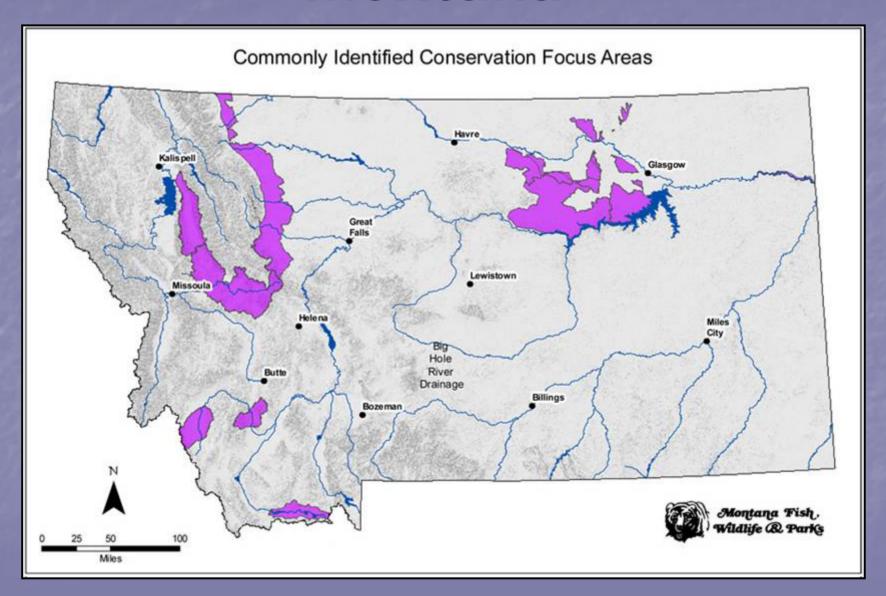


Over the next two years, DDCF will provide capital and operating funds to two additional regional clusters of states, with grants likely to be equal or greater than those for the Southeast and the Midwest

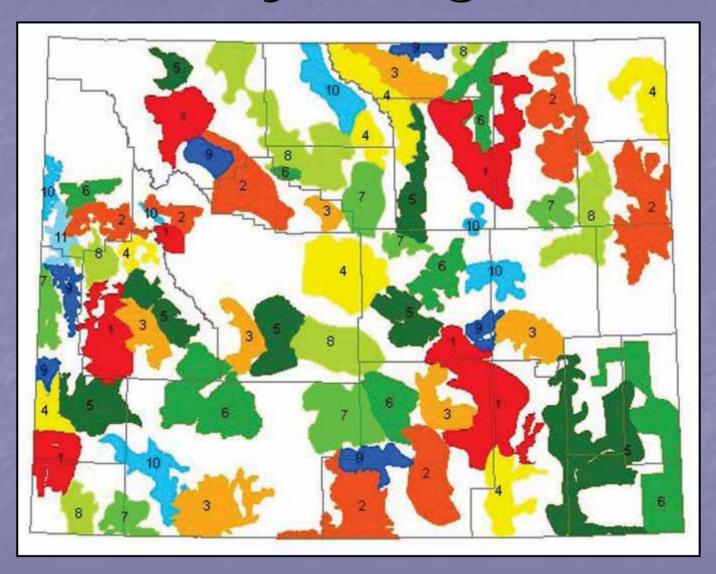




Montana



Wyoming

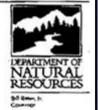


Colorado

STATE OF COLORADO

OFFICE OF THE EXECUTIVE DIRECTOR

Department of Natural Reviewes 1313 Sherman Street, Room 718 Derwer, Colorado 80203 Phone: (303) 866-1311 TOD (101) 864-3643 Fave: (303) 866-2115



July 6, 2007

Mr. Mark Shaffer Program Officer Doris Duke Charitable Foundation 650 Fifth Avenue 19th Floor New York NY 10019

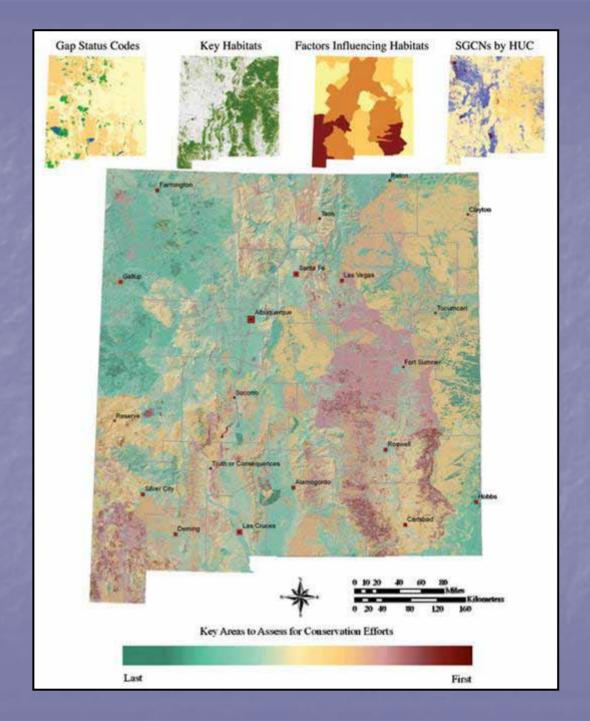
Dear Mr. Shaffer:

My consultations with Colorado Division of Wildlife staff suggest that the State of Colorado will require approximately two months to make appropriate improvements to the maps accompanying the plan. Shortly thereafter, the State of Colorado will formally append these maps to its wildlife action plan. Like the Doris Duke Charitable Foundation, we believe that the state wildlife action plan can be a valuable tool to guide strategic investments of public and private capital toward important wildlife habitat protection projects.

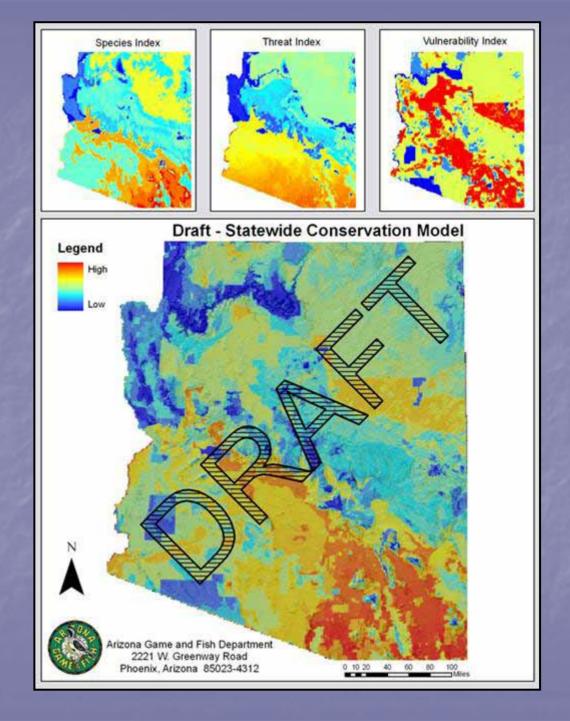
Executive Director

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New Mexico



Arizona



Idaho Land Trusts and Implementation of the Idaho Comprehensive Wildlife Conservation Strategy



Idaho Department of Fish and Game Conservation Data Center







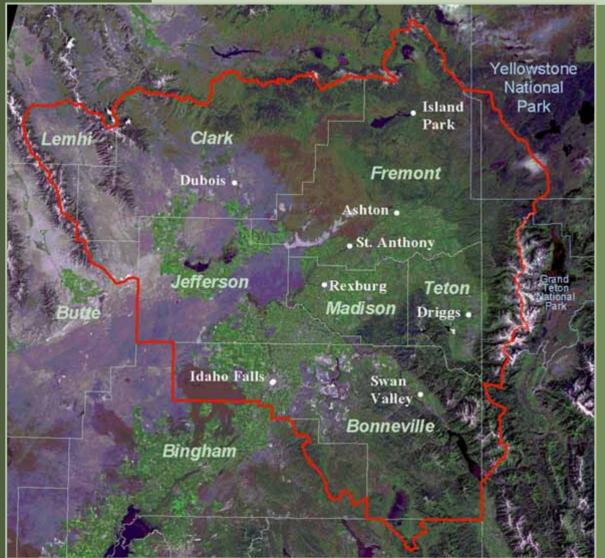




The Teton Regional Land Trust



The Teton Regional Land Trust

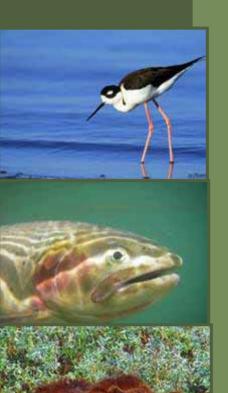


Our Mission

. . . to conserve agricultural and natural lands and to encourage land stewardship in the Upper Snake River Watershed for the benefit of today's communities and as a legacy for future generations.



Willing Private Landowners



- Collaborative Conservation Planning
- Land Protection
- Stewardship
- Restoration
- Ecological Monitoring
- Land Management
- Outreach and Education







Collaborative Conservation Planning

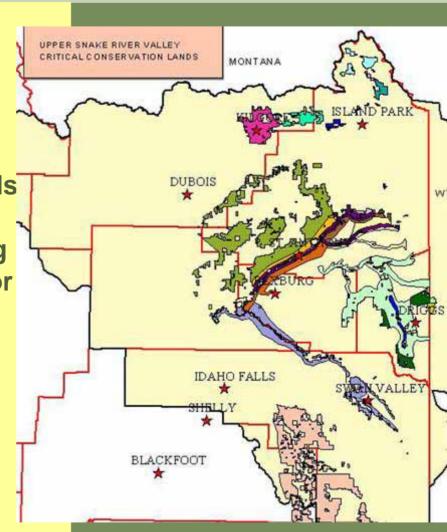
Idaho Department of Fish and Game Crucial lands mapping

Heart of the Rockies Initiatives,

Greater Yellowstone Crucial Lands

TRLT and Partners, Focal Area Planning (sub-watershed specific efforts for target species/habitats)

Species guild focused initiatives,
Idaho Partners in Flight, (IBIS)
USFWS – Migratory Bird Office
Trumpeter Swan Society



Baseline Inventories/GIS Program

IDAHO COMPREHENSIVE WILDLIFE CONSERVATION STRATEGY

As submitted to the USDI Fish and Wildlife Service, National Advisory Acceptance Team

September 2005





Idaho Department of Fish and Game 600 S. Walnut, P.O. Box 25, Boise, ID 83707







Required Elements of the CWCS

- Distribution and abundance of indicative wildlife species;
- Locations and relative condition of key habitats;
- Descriptions of potential problems;
- Necessary conservation actions;
- Proposed monitoring plans;
- Procedures for periodic Strategy review;
- Plans for coordination among federal, state, and local agencies and Indian tribes;
- Broad public participation.



Why is the ICWCS Timely?

Idaho has the third highest population growth rate in the nation

Rapid residential and resort development threaten important habitats

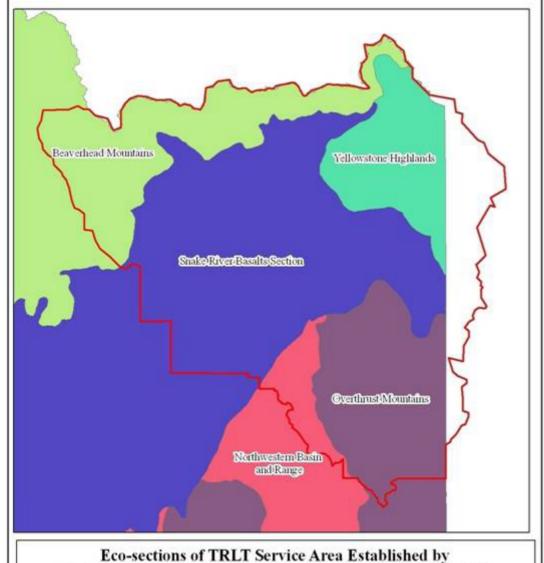






Methodology

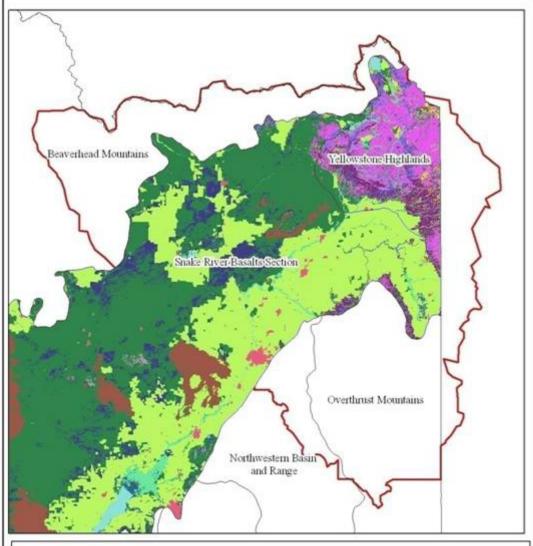
- 14 Ecological sections
- 229 Species of Greatest Conservation Need
- 55 Ecological Systems
- Conservation Strategies

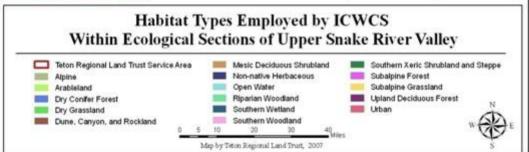




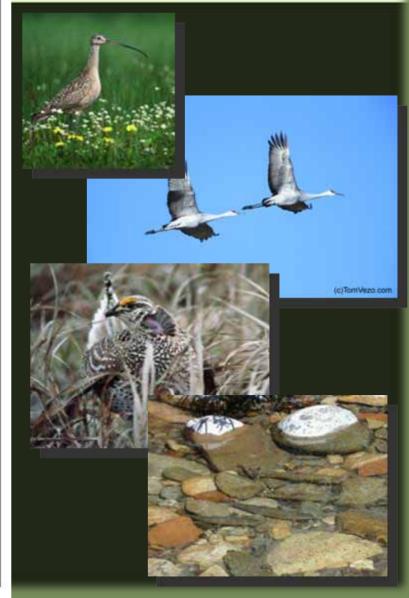
Regional Application

- 5 Ecological Sections
- Diverse Habitats in Idaho Portion of the Greater Yellowstone Ecosystem
- Important to many of Idaho's SGCN

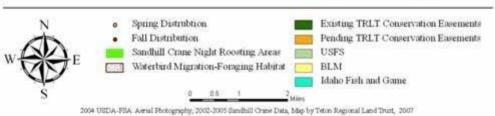




Conservation Activities



2002-2005 Greater Sandhill Crane and Waterbird Migration-Foraging Habitat

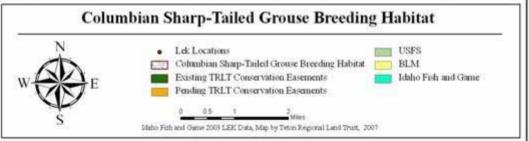


Conservation Planning



"Substantial improvements are needed in annual surveys. . . ."

"Maintain grain fields and roost sites at traditional staging areas."



Land Protection Terms



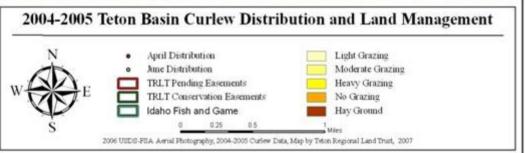
"Protect and maintain habitats, avoid disturbance to breeding complexes (lands within 2 km radius of occupied leks)."



Landscape Protection



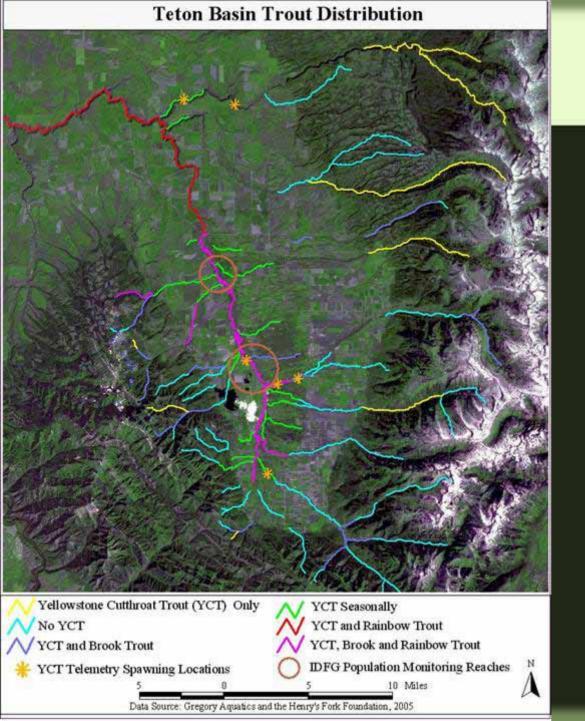
Work at landscape scale to "protect and maintain habitats, avoid disturbance to breeding complexes (lands within 2 km radius of occupied leks)."



Conservation stewardship



"Protect habitat areas that are >42 ha (enough habitat for at least one breeding pair). Protect nesting areas from disturbance. Contribute to regional monitoring effort."



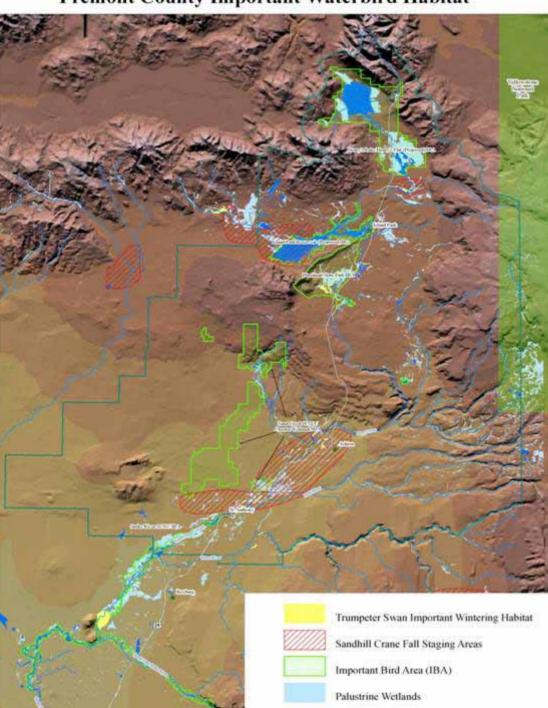
Restoration



Follow "details on restoration activities for conservation of YCT."



Fremont County Important Waterbird Habitat



Focal Area Application

- Conservation planning for crucial private land habitats
- Potential work with willing landowners on voluntary basis

The Vision

Strateon

Action Plan B

Action Plan A

Objective 1
Objective 2
Objective 3

State-wide Steps for Wildlife Conservation Strategy = Action Plans

Leona Svancara

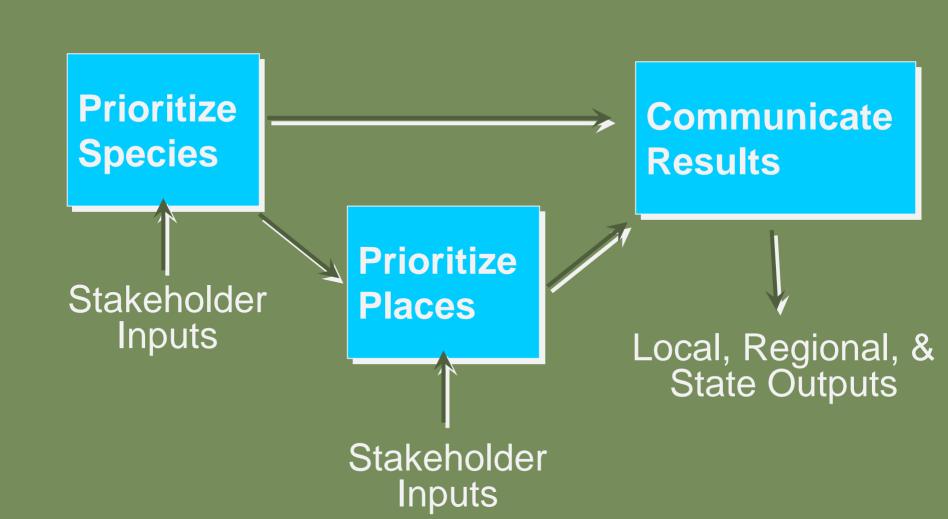
University of Idaho



Objective 1
Objective 2
Objective 3
Objective 4

common framework to allow partners to jointly implement a long-term approach to conservation of SGCN

Recruit state and regional stakeholders to jointly implement a long-term approach to conservation of SGCN



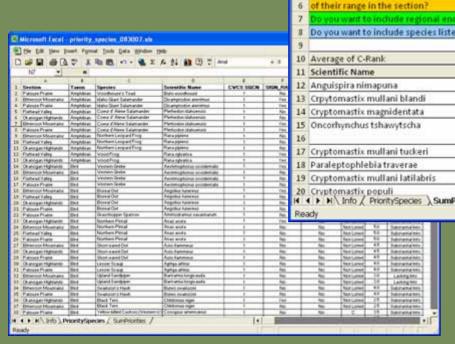
A species oriented approach . . .

X 10 19 10 · 10 Σ 16 1 11 2 2 Calbri

Microsoft Excel - priority_species_083007.xls

| File Edit View Insert Format Tools Data Window Help

MS Excel pivot table with simple filters based on user interests.



 Lyre Mantleslug Priority Ranking for Species of Greatest Conservation Need by Ecological Section This pivot table provide Answer the following questions to develop a customized list of priorities: CWCS. Priority ranks Do you want to address all species, or a selected group? Global status. In addit Do you want to include species lacking substantial At this time only additi subset of species iden 5 information for determining conservation status? (AII) represents those speci Do you want to include species with a significant portion AND a significant portion (All) AND are regional (N Id) o you want to include regional endemics? (All) Do you want to include species listed under the ESA? CALLS Select the Ecological Section(s) of Interest Section ▼ Species Bitterroot Mountains Flathead Valley Nimapuna Tigersnail An Oregonian 1.0 Mission Creek Oregonian Chinook Salmon (Snake River fall-run) 1.0 Chinook Salmon (Snake River spring/sum 1.0 An Oregonian (Lower Clearwater River) 1.0 An Oregonian (Lower Salmon River) An Oregonian (Hells Canvon) H 4 P M Info / PrioritySpecies / SumPriorities /

Species sorted based on an overall conservation rank

A place oriented approach . . .

Use a Spatial Decision Support System (NatureServe Vista) to incorporate:



- Ecological integrity or viability
- Scientific uncertainty
- Stakeholder values

To answer:

Where do priority species occur?

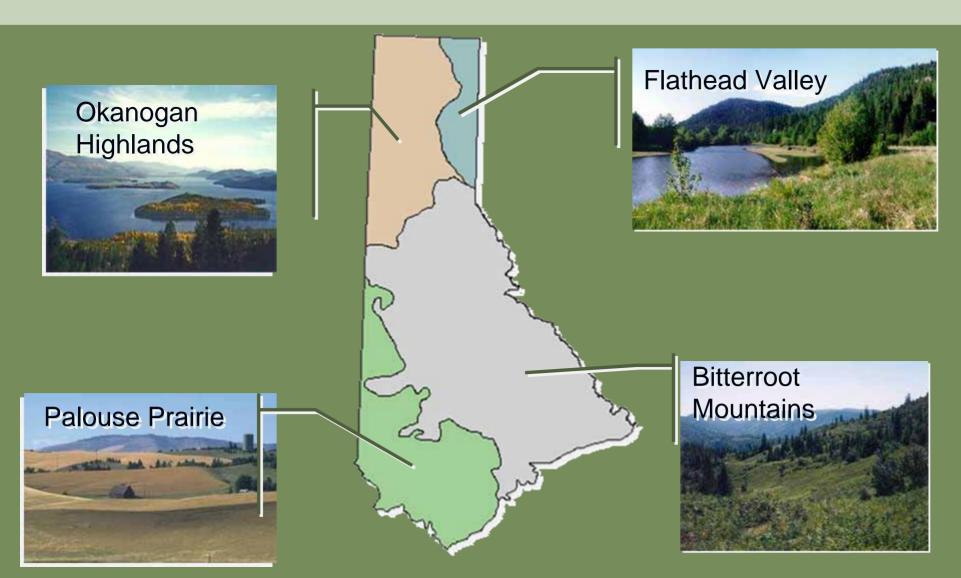
Are there overlaps with other state-, regionalor section-wide priorities?

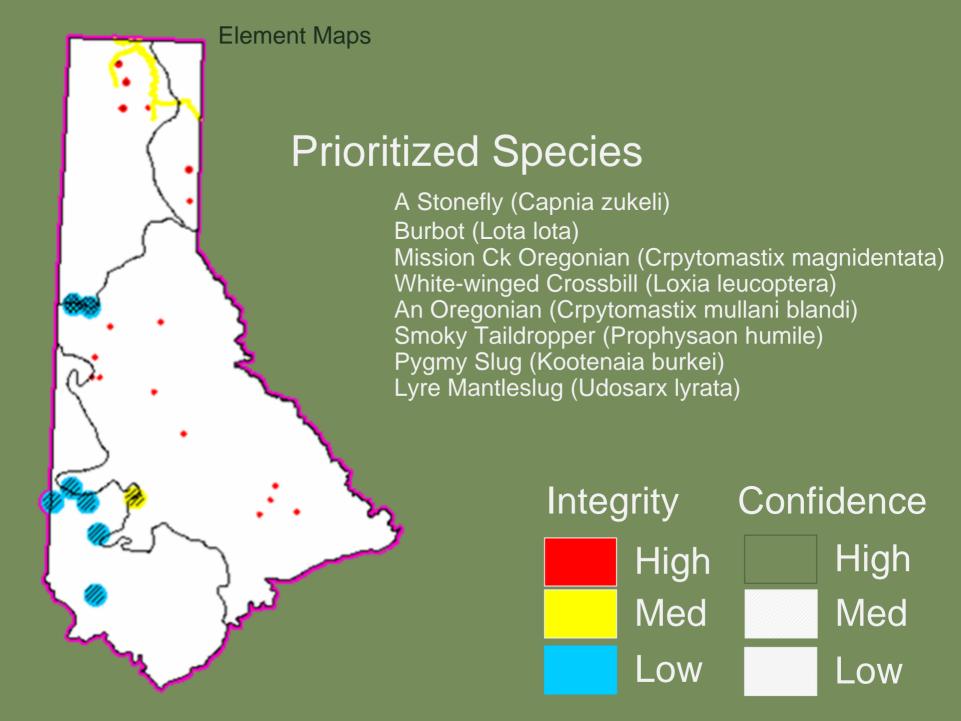
How do they compare with other agency/stakeholder priorities?

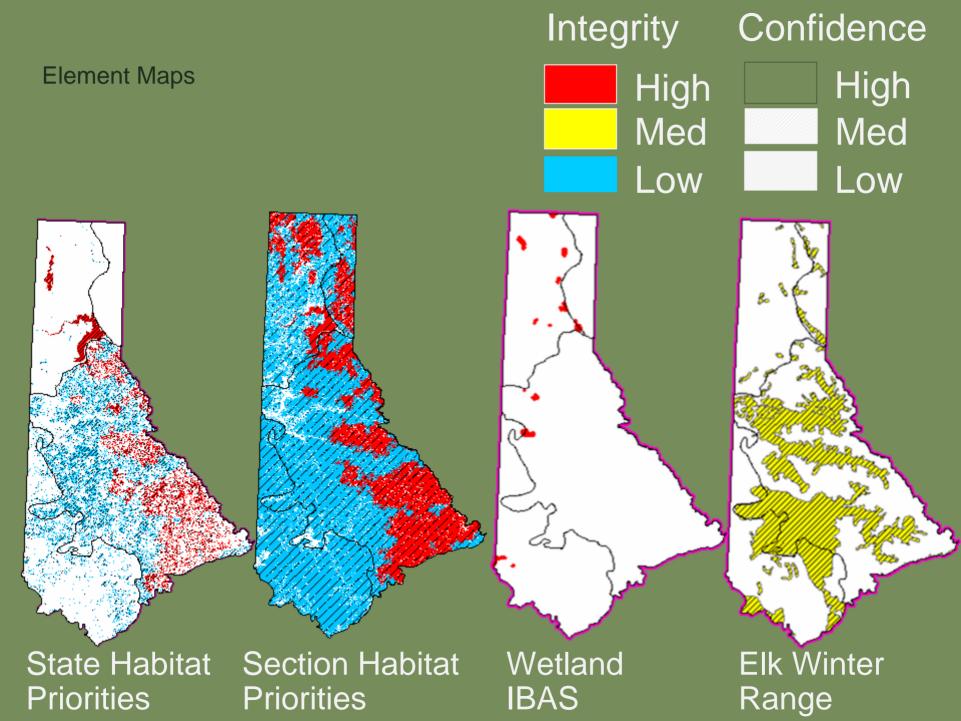
Examples . . .

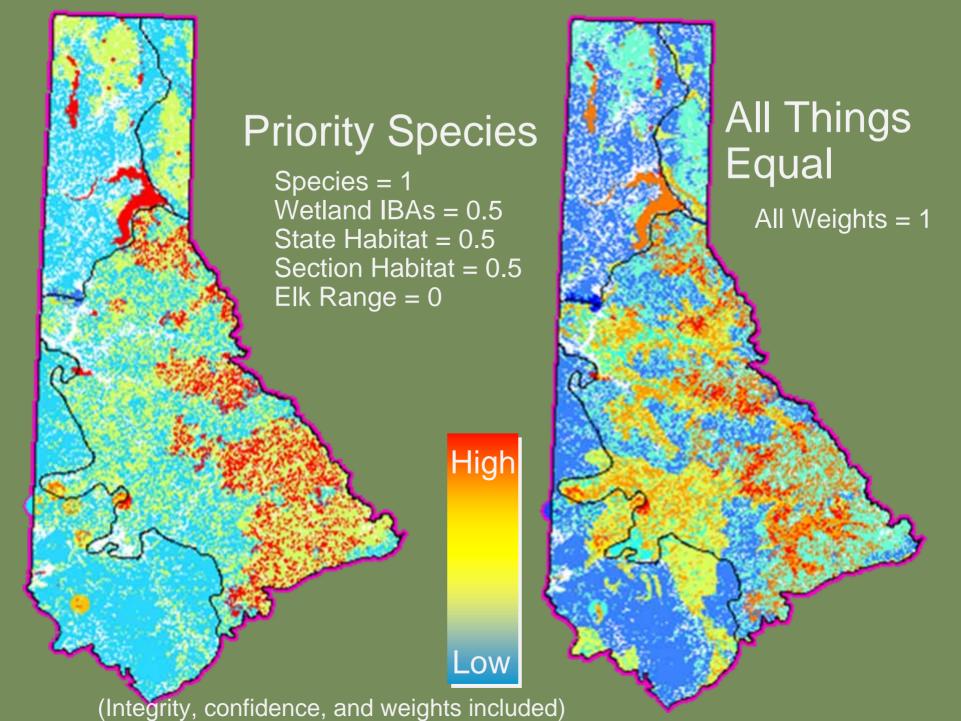
- Prioritized species
- State habitat priorities
- Ecological Section habitat priorities
- Wetland important bird areas
- Big game (elk) winter range

A North Idaho Application . . .

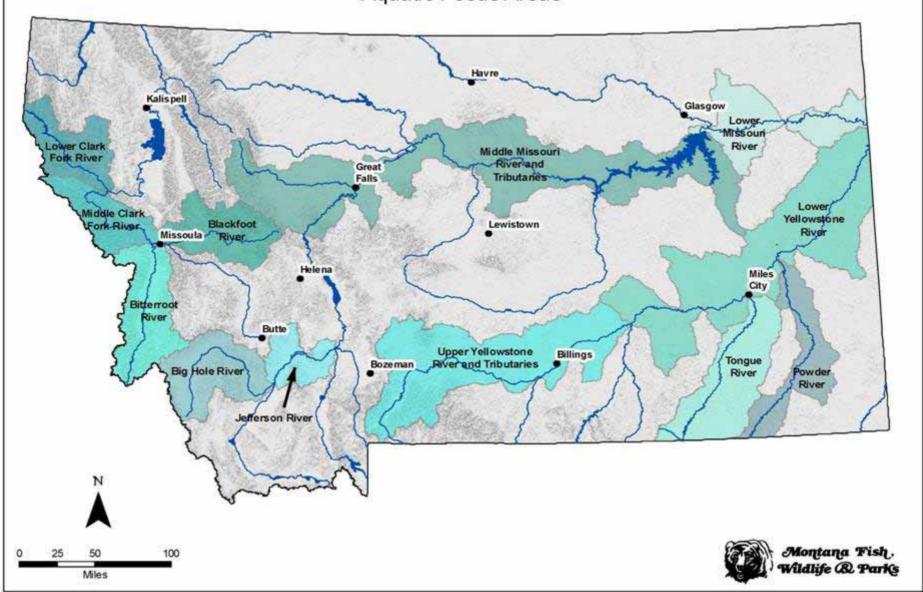




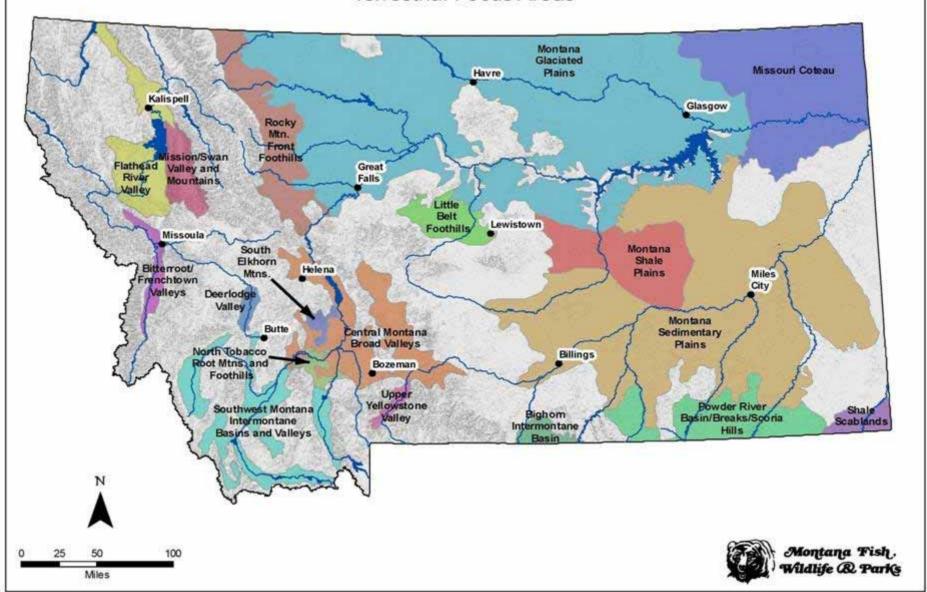




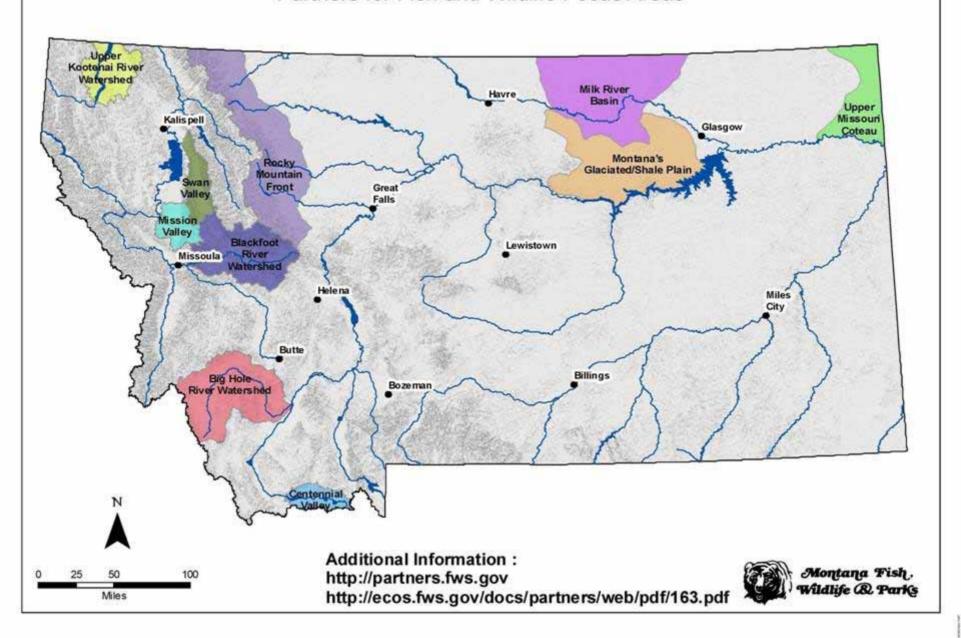
Montana Fish, Wildlife, and Parks Comprehensive Fish and Wildlife Conservation Strategy Aquatic Focus Areas



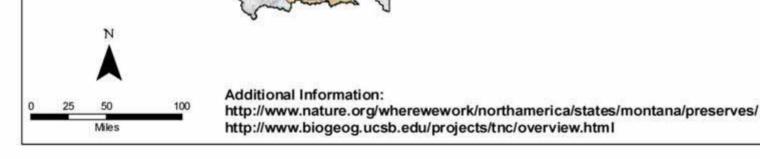
Montana Fish, Wildlife, and Parks Comprehensive Fish and Wildlife Conservation Strategy Terrestrial Focus Areas



Partners for Fish and Wildlife Focus Areas



The Nature Conservancy Priority Areas Bitter Creek/Grasslands National Park Kalis pell Glasgow Montana Missouri/Yellowstone Rocky Glaciated River Confluence Mountain Flathead **Plains** Front Swan Watershed Great Falls Lewistown Blackfoot Missoula Miles Yellowstone City River Butte Billings Big Hole Rive Boze man Bearto oth Front

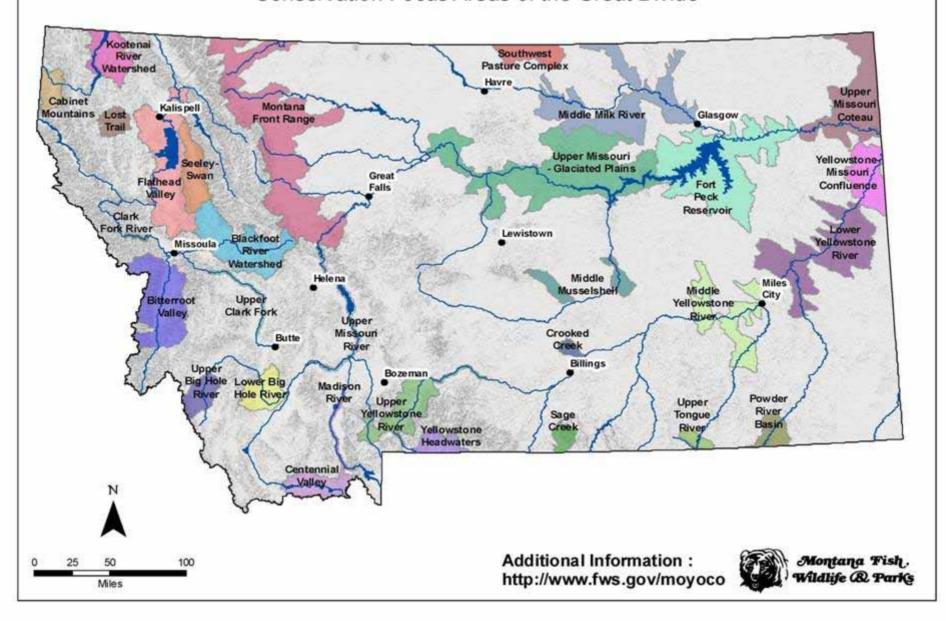


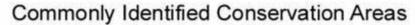
Upper Madison

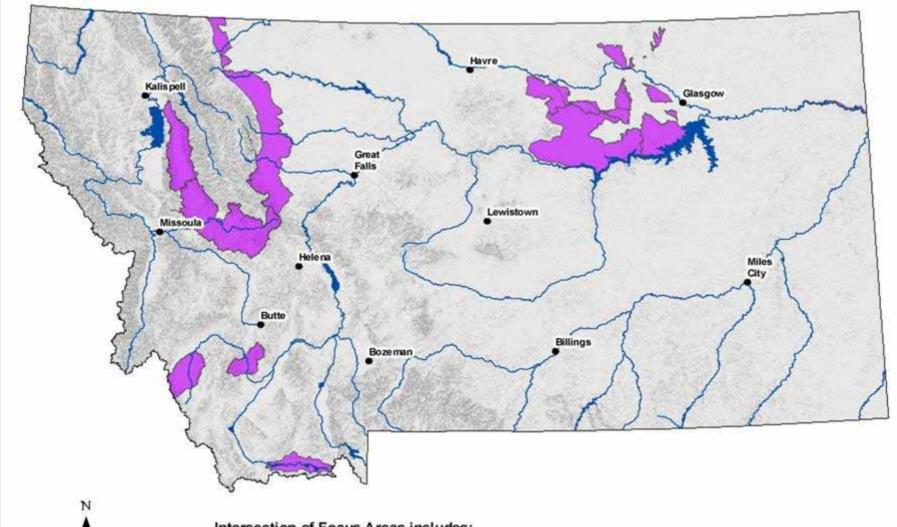
Centennial



U.S. Fish and Wildlife Service Conservation Focus Areas of the Great Divide







Intersection of Focus Areas includes:
Montana Fish, Wildlife, and Parks CFWCS Tier One Focus Areas
USFWS Conservation Focus Areas of the Great Divide
Partners for Fish and Wildlife Conservation Focus Areas
Nature Conservancy Priority Areas

100

Miles



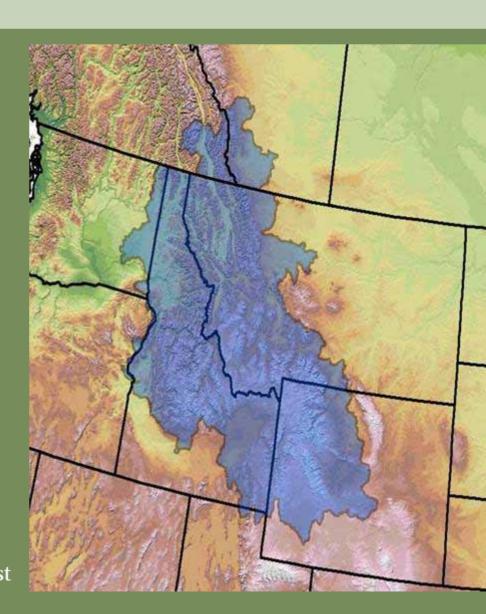




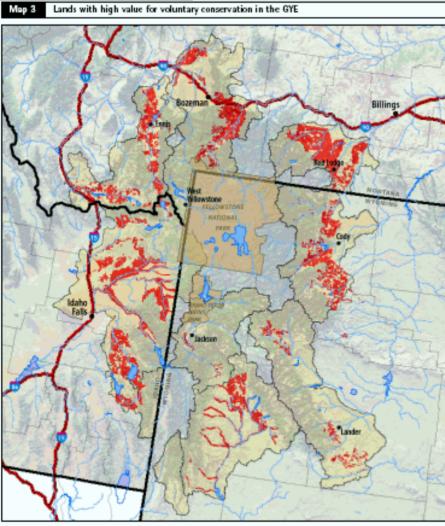
The Wyoming Department of Game and Fish and land trusts in Wyoming are partnering with the Wyoming Wildlife and Nature Trust to develop large landscape initiatives to conserve priority habitats.

Heart of the Rockies Initiative

American Land Conservancy **Bitter Root Land Trust** Clark Fork-Pend Oreille Conservancy The Conservation Fund **Five Valleys Land Trust** Flathead Land Trust **Gallatin Valley Land Trust Green River Valley Land Trust Inland Northwest Land Trust Jackson Hole Land Trust** The Land Conservancy of BC Montana Land Reliance The Nature Conservancy – ID, MT & WY Lemhi Regional Land Trust Nature Conservancy of Canada – Alb & BC **Prickly Pear Land Trust Rocky Mountain Elk Foundation** Sagebrush Steppe Land Trust Trust for Public Land **Teton Regional Land Trust** Wyoming Stock Growers Agricultural Land Trust Vital Ground Foundation



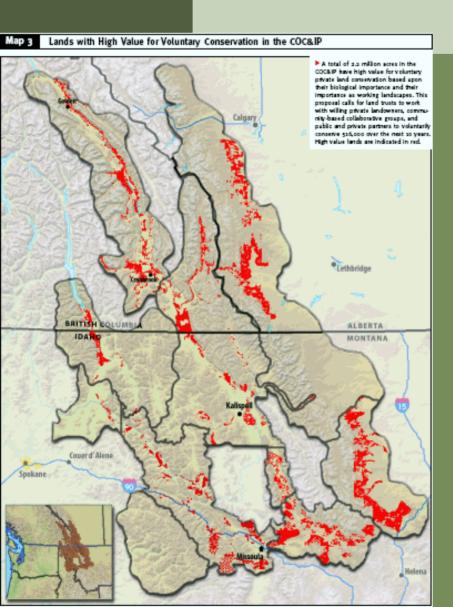
Conservation Plan for the Greater Yellowstone Ecosystem



A total of 29 million acres in the GYE have high value for voluntary private land conservation based on their biological importance and their importance as working landscapes. This proposal calls for land trusts to work with willing private landowness to

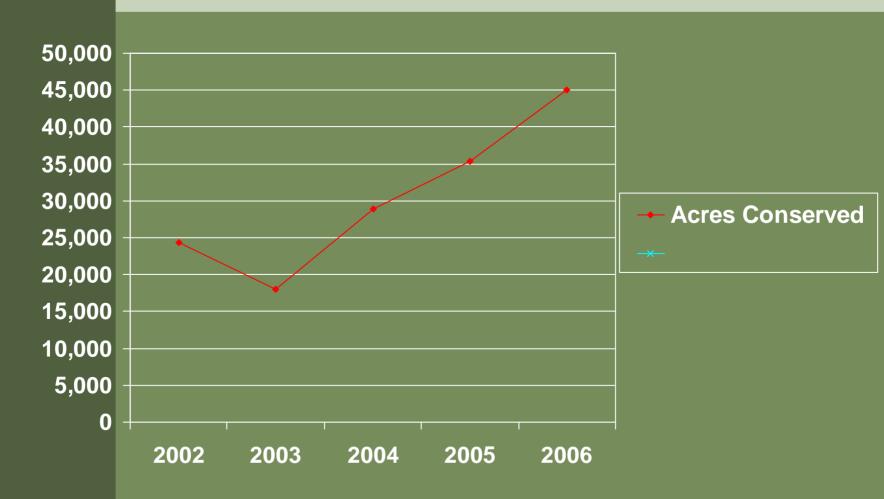
- □ 12 land trusts in GYE
- Biological value, agricultural value & community support
- Identifies 2.8 million acres with high conservation value
- 10 year goal to conserve1 million acres

Conservation Plan for Crown of the Continent and Idaho Panhandle



- 14 land trusts
- Biological value, agricultural value & community support
- Identifies 2.2 million acres with high conservation value
- 10 year goal to conserve 516,000 acres

Conservation of "High-Value" Private Land by HOTR Land Trusts in the GYE, 2002-06 (Acres/year)



HOTR Land trusts in the GYE have conserved a cumulative total of 186,743 acres since 2002



Some Next Steps for Wildlife Action

- 1. Refine statewide and regional maps to inform conservation priorities, engage stakeholders.
- 2. Collaboratively expand private land considerations in planning (with a willing landowner perspective).
- 3. Continually expand public involvement and awareness.
- 4. Address "the broad range of wildlife and associated habitats", within SGCN focus, to include habitats for aquatic species.
- 5. Broaden collaboration to fully leverage existing programs to achieve habitat goals.
- 6. Build collaboration to advocate for new public programs and funding to achieve conservation goals (e.g. new tax incentives).

Acknowledgments

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Willing landowners who leave a legacy

