


Using Easements to Conserve Biodiversity

A photograph of a large flock of Canada geese in a field. In the foreground, many geese are standing in a grassy field. In the background, several geese are flying in a clear blue sky. The field is surrounded by trees in the distance.

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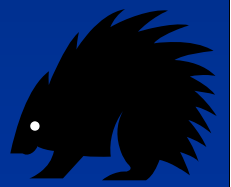
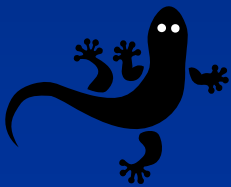
Midwest LTA
March 25, 2006



Outline of Talk

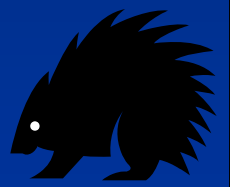
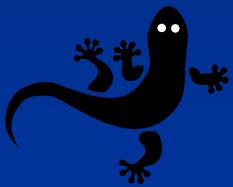


- Introduction
- How to Conserve Biodiversity?
- State Wildlife Action Plans
- Funding for Biodiversity Conservation
- Future Opportunities





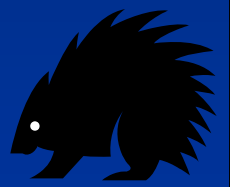
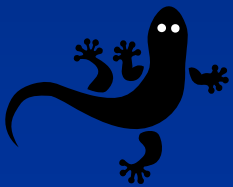
Introduction





Defenders of Wildlife

- Mission: to protect native wild animals and plants in their natural habitats, with a focus on conserving biological diversity
- Focus: conservation policy and incentives for private lands
- Approach: collaboration, diverse partnerships

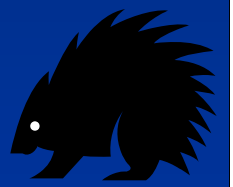
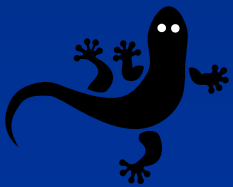




Living Lands Project



- Increase the capacity of land trusts to enhance, restore, and protect wildlife habitat and biodiversity values
- First year of multi-year project
- Partnership with LTA

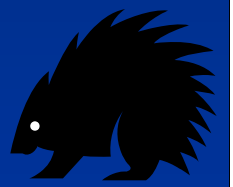
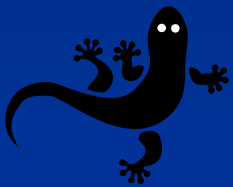




Biodiversity (Biological Diversity)



- The variety of life and natural processes:
 - Species
 - Genetic variation
 - Communities, ecosystems
 - Predation, symbiosis, etc.
 - Flood, fire, etc.

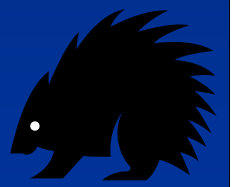
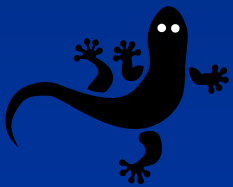




Why is Biodiversity Important?



- Balance of nature / natural processes
- Many species at risk or in decline
- Natural heritage and legacy
- Protection cheaper than recovery
- Food, medicine, ecosystem services, recreation

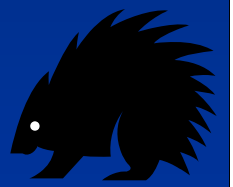
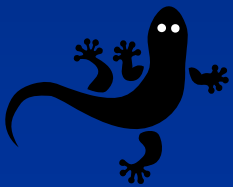




Living Lands Project: Why Now?



- Accreditation, Standard 8
 - Conservation value
 - Public benefits
- Funders want strategic planning
- New State Wildlife Action Plans (aka Strategies)

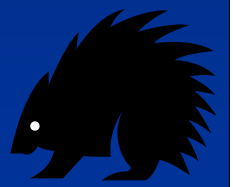
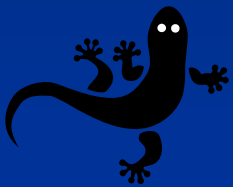




Opportunistic vs. Strategic



- Opportunistic:
 - Landowners are self-selected
 - Landowners share values with land trust
 - Projects are separate, scattered, not linked
- Strategic:
 - Identify highest priority conservation needs
 - Seek opportunities to conserve these areas
 - Projects linked to landscape-scale conservation

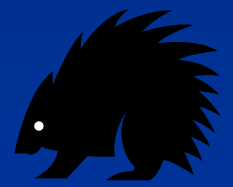
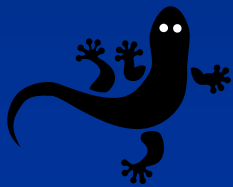




Life Cycle of a Land Trust



<u>Phase 1</u>	Forming	Need easements to prove concept	Opportunistic
<u>Phase 2</u>	Making Progress	Criteria to accept easements	Opportunistic/ Proactive
<u>Phase 3</u>	Mature	Accept and seek easements	Proactive
<u>Phase 4</u>	Finding meaning & context	Use easements and other tools; restoration	Strategic

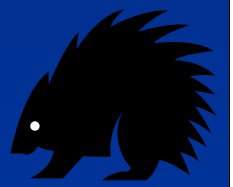
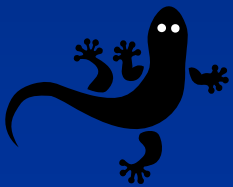




Living Lands Project



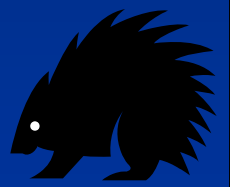
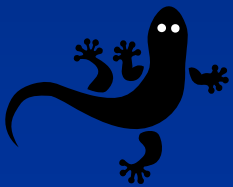
- Assessment phase: to determine the extent of local land trust work that contributes to biodiversity conservation
- Interviews with LTA staff, land trusts, conservation organizations
- Web survey, January 2006
 - Sent to ~800 land trusts
 - 135 responded (18%)
 - 28 states





Survey Results

- Mission includes:
 - habitat 96%
 - biodiversity 66%
- Most protected areas...
 - have biodiversity conservation as a goal 38%
 - have a habitat conservation plan in place 25%
 - are managed for biodiversity 29%
 - are restored for biodiversity 17%
- Interested in increasing capacity...
 - Somewhat or very interested 89%

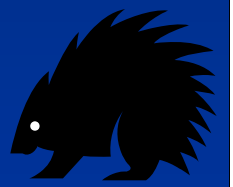
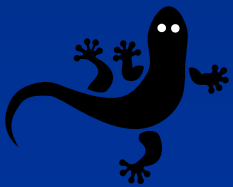




Survey Results



- Barriers:
 - Limited stewardship / monitoring funding
 - Limited staff capacity
 - Limited staff expertise
 - Not a priority for funders
 - Not a local community priority
 - Uninterested landowners

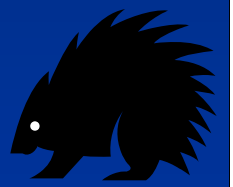
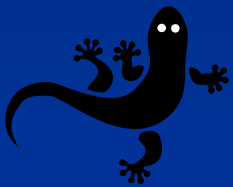




Survey Results



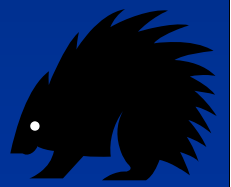
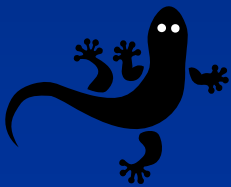
- Assistance (or training) needs:
 - Conservation planning
 - Resource management
 - Species management
 - Restoration
 - Monitoring
 - Grants
 - Partnering / merging for effectiveness





Survey Results

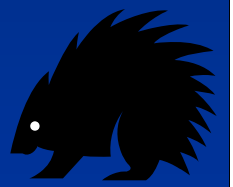
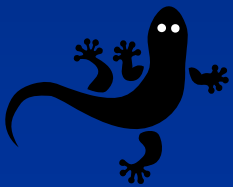
- 16 federal programs listed
 - Have used federal funding **51%**
 - Program not used **70-90%**
 - Program important **0-17%**
- Help tap into federal funding
 - Knowledge of sources
 - Grant-writing
 - Matching funds
 - Conservation planning
 - Management or restoration skills
 - Closer relationships with NRCS or SWCD





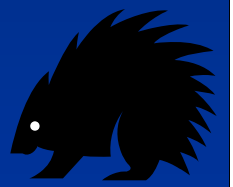
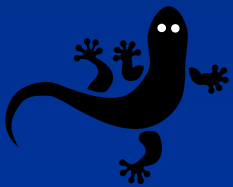
Question:

**How do the
survey results
reflect your
experience?**





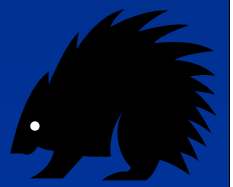
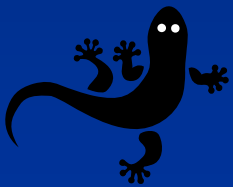
How to Conserve Biodiversity





Site Selection

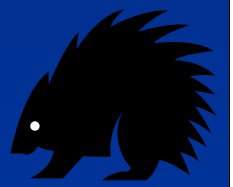
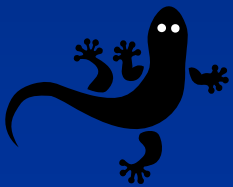
- Identify high priorities at landscape level:
 - Regional or state agency / organization / partnership
 - May already exist (TNC, SWAP, GAP, NH, land trust?)
 - If a good wheel already exists, don't invent a new one!!





Site Selection

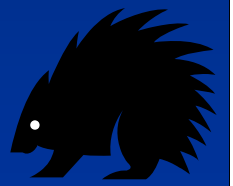
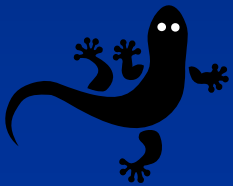
- Priority areas should consider:
 - Representation (types of sites)
 - Resiliency (size of sites)
 - Redundancy (number of sites)





Site Selection

- Priority areas should also consider:
 - At-risk / rare habitats
 - Habitats for multiple species, including at-risk species
 - Functioning ecosystems





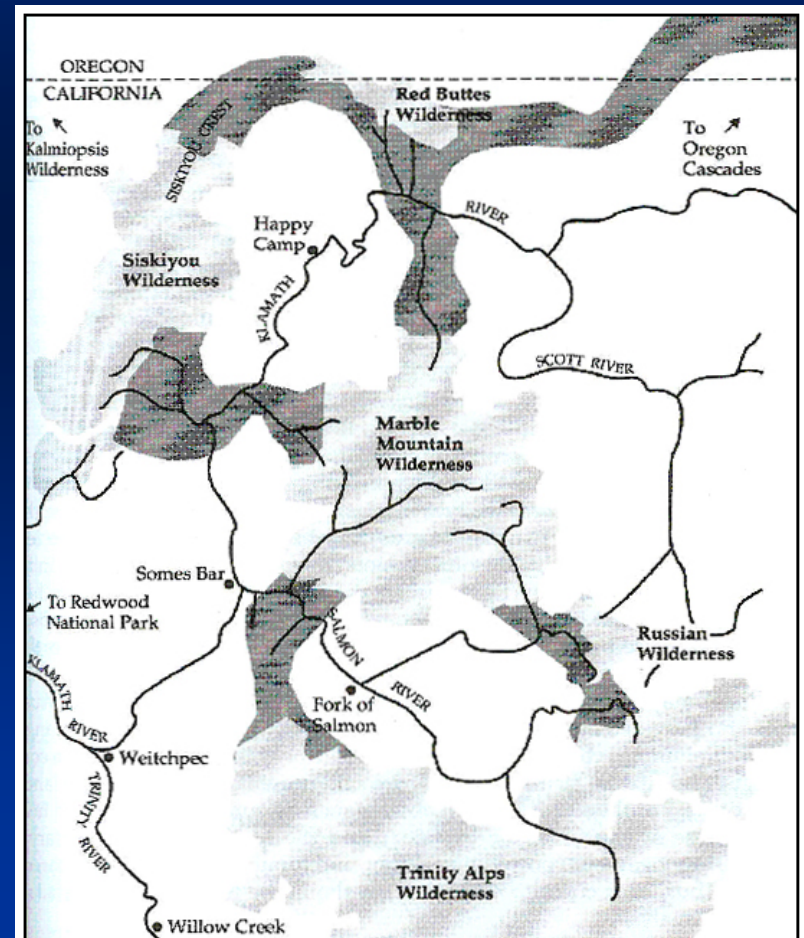
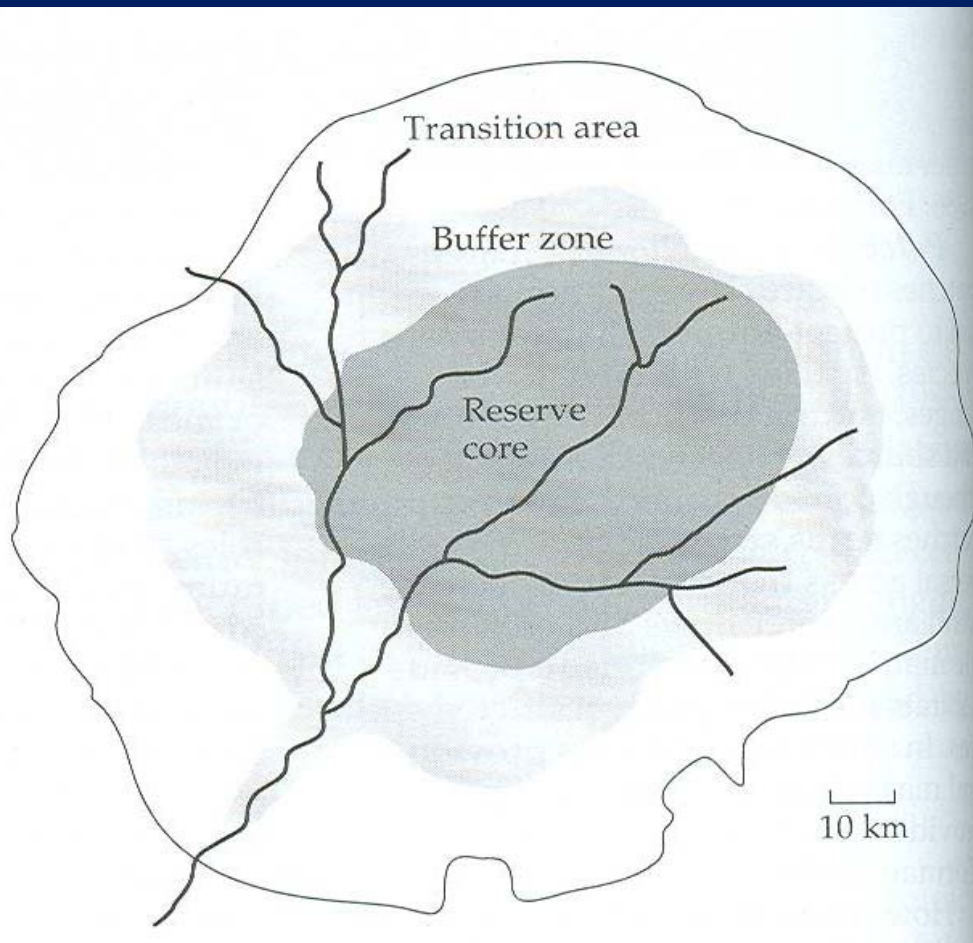
Site Selection



- Find sites that fit into landscape-scale priority areas

Core, buffer, and transition zones

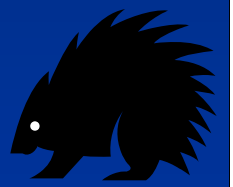
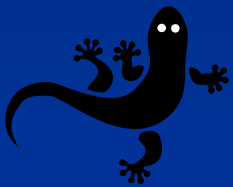
Connectivity





Site Planning

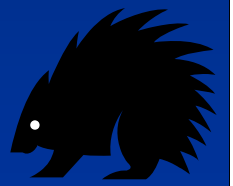
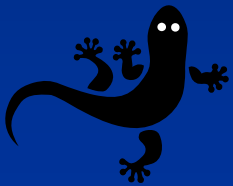
- Inventory species, habitats, conditions:
 - Start with: What's there now?
 - Historical context: What was there?
 - Landscape context: What's nearby?





Site Planning

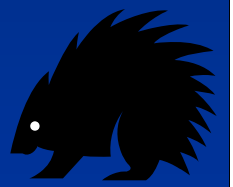
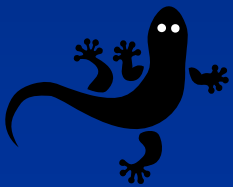
- What is needed to have functioning ecosystems with diverse native species?
 - Restore / enhance habitat
 - Add missing structural elements
 - Control invasive species
 - Remove barriers / constraints
 - Mimic or restore natural processes





Site Planning

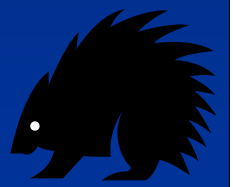
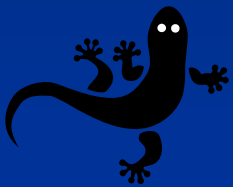
- How can we make it happen?
 - In the easement: refer to a management plan
 - Partnerships
 - Funding
 - What does the landowner need / want?





Site Planning

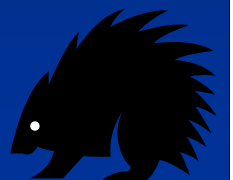
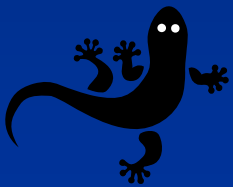
- Improving biodiversity values on existing easements
 - Check or redo inventory for at-risk species and priority habitats
 - Prioritize effort based on value of opportunity
 - Revise easement: refer to management plan
 - Partnerships / funding
 - What does the landowner need or want?





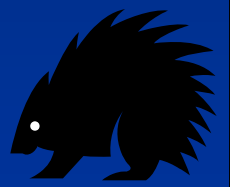
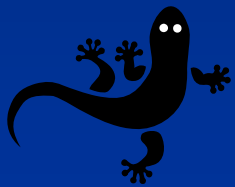
Question:

What challenges or opportunities have you had when trying to be strategic?





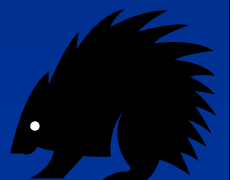
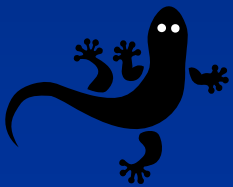
State Wildlife Action Plans





State Wildlife Action Plans

- Required for states to continue receiving State Wildlife Grants
- Completed by October 1, 2005
- Originally “State Comprehensive Wildlife Strategies” (some states use other names)
- Focus is “Species of Greatest Conservation Need” and their habitats

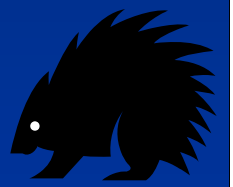
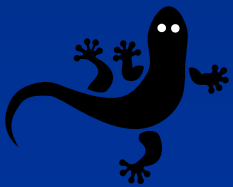




State Wildlife Action Plans



- USFWS approves action plans:
- 68% approved in US (7 in Midwest)
- 22% w/ conditions (4 in Midwest)
- 10% not decided (1 in Midwest)
(Ohio = ??)

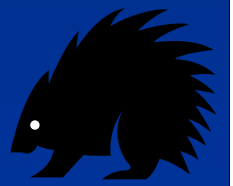
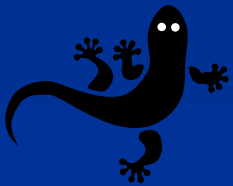




State Wildlife Action Plans: 8 Required Elements

- At-risk species *
- At-risk habitats *
- Threats *
- Conservation actions *
- Monitoring *
- Review
- Coordination *
- Public Participation *

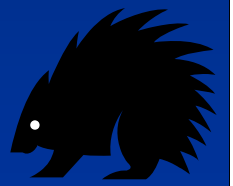
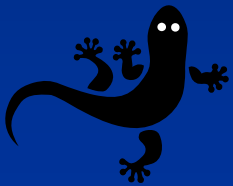
- 50 very different plans





State Wildlife Action Plans: Other Useful Parts

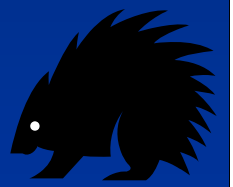
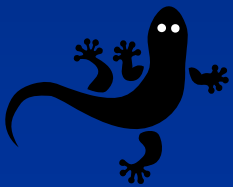
- Ecoregions / watersheds
- Historic distribution of habitats
- Invasive species
- Restoration actions
- Other...





State Wildlife Action Plans: Easements

- 42 states included easements in “conservation actions”
- 9 Midwest states included easements. Not these:
 - South Dakota
 - Minnesota
 - Ohio
- Why not ??

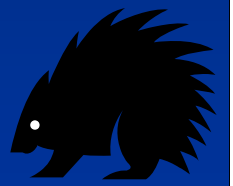
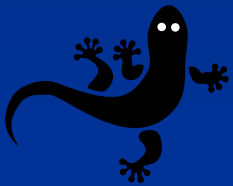




State Wildlife Action Plans: Maps and Priorities



- Why map priorities?
 - Conservation planning is a spatial exercise
 - Maps help partners work together
- “Priority habitats” = at-risk or sensitive
- “Focal areas” = subset of at-risk habitats; best conservation opportunities (ecological significance, threats, opportunities)



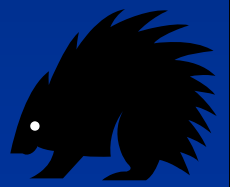
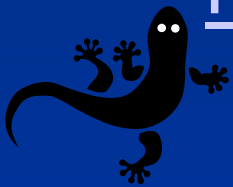


North Dakota: Overview



- Conditionally approved (monitoring)
- + Maps focus areas and priority habitats
- + Easements

<http://gf.nd.gov/conservation/toc.html>

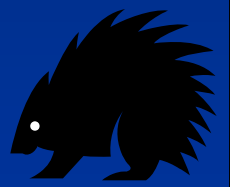
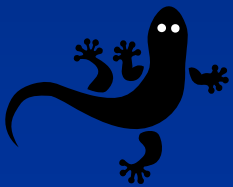




North Dakota: Easements



- Easements are one of the most effective tools for permanent conservation of endemic grassland birds and other grassland-dependent wildlife
- An easement may not exceed 99 years
- The law preventing perpetual easements is a major obstacle to retaining intact native prairie habitat, and therefore to prevent grassland birds from becoming endangered
- N.D.C.C § 47-05-02.1

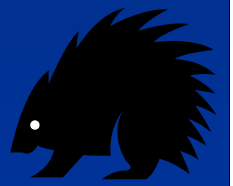
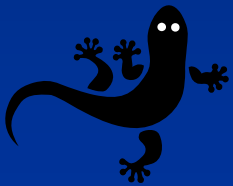




North Dakota: Acquisition



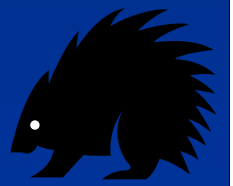
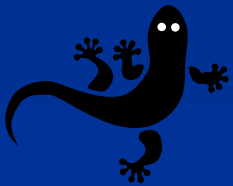
- Before farmland or ranchland may be purchased by a nonprofit organization for conserving natural areas and habitats...
 - Ag commissioner convenes advisory committee
 - Public hearing with county commissioners
 - Governor must approve proposed acquisition
- Significant disincentive for land trusts and landowners
- N.D.C.C § 10-06.1-10





North Dakota: Species

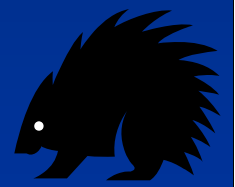
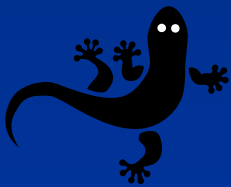
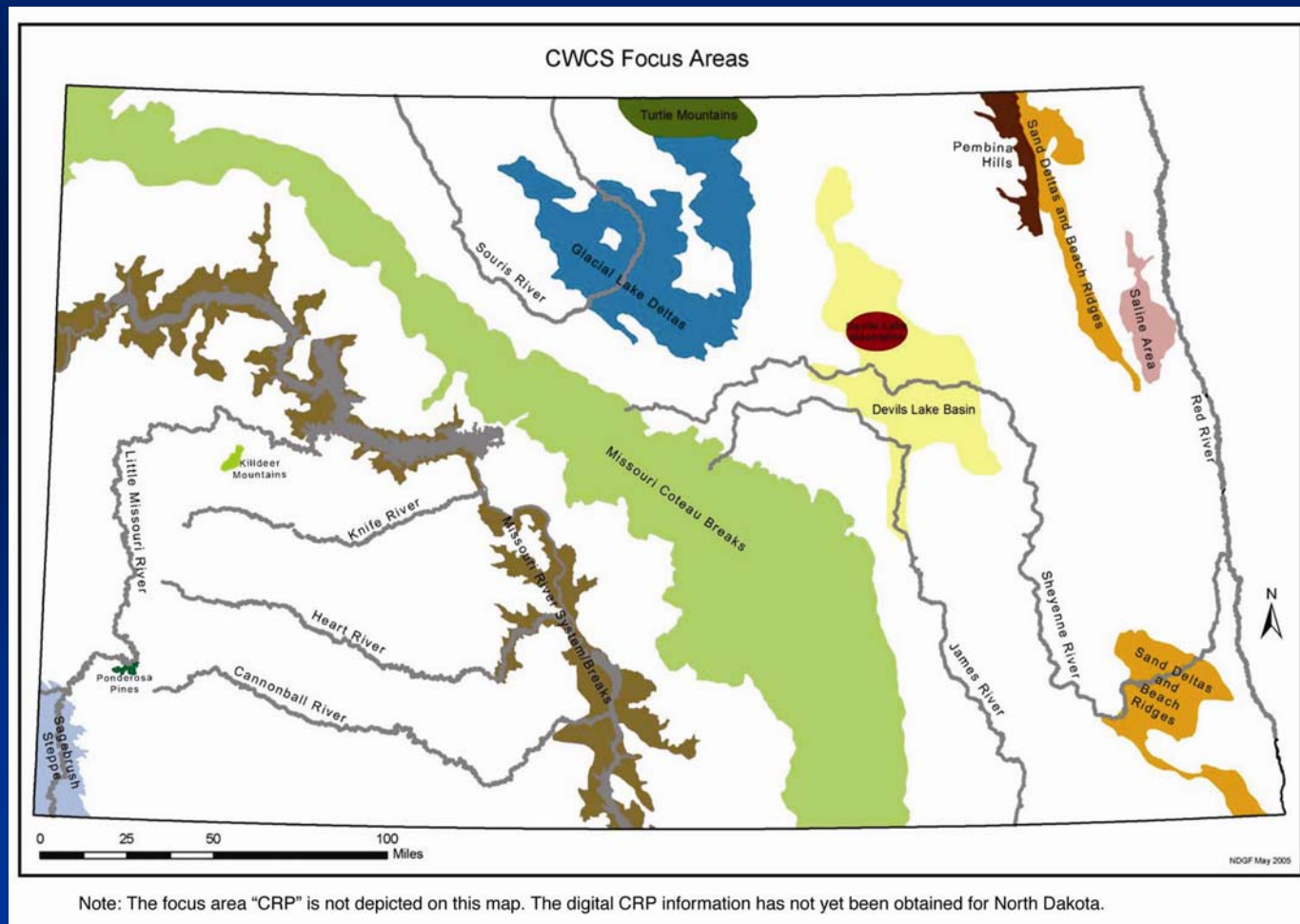
- 100 species of conservation concern
- Three levels of priority
- Information for each species:
 - Status
 - Distribution and abundance
 - Habitat requirements
 - Threats
 - Management practices
 - Research and monitoring
 - References





North Dakota: Priorities

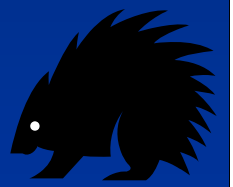
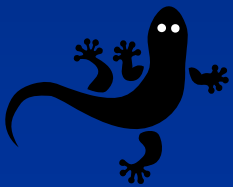
- 21 focus areas, highly variable in size
- Ensure representation of state's biodiversity
- Native vegetation or natural community type rare to North Dakota





South Dakota: Overview

- Conditionally approved
 - coordination with agencies
 - public involvement
- Maps ecosystems but not priority habitats or focus areas
- Easements (not even mentioned)
- www.sdgfp.info/wildlife/diversity/Final_CWCP.pdf

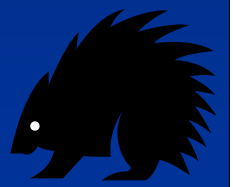
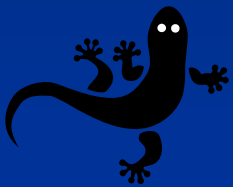




South Dakota: Species



- 90 species of greatest conservation need
- Information includes, for each species:
 - current protection status
 - distribution historically and currently within SD
 - habitat and historical ecosystems
 - causes of decline
 - existing recovery plans or conservation strategies

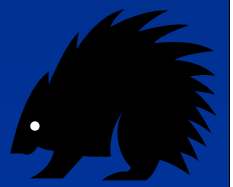
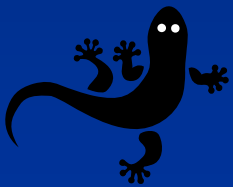




South Dakota: Priorities



- Maintain / restore $\geq 10\%$ of historical occurrence for each ecosystem in each ecoregion
- Math but no map
- Species of concern get habitat through the 10% ecosystem conservation, plus non-habitat actions
- Evaluate and adjust percent





Minnesota: Overview

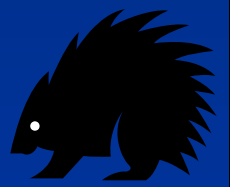
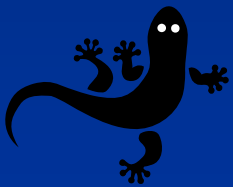


+ Approved

~ Maps priority habitats but not focus areas

- Easements (not mentioned)

www.dnr.state.mn.us/cwcs

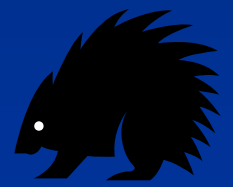
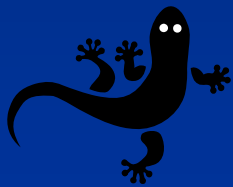
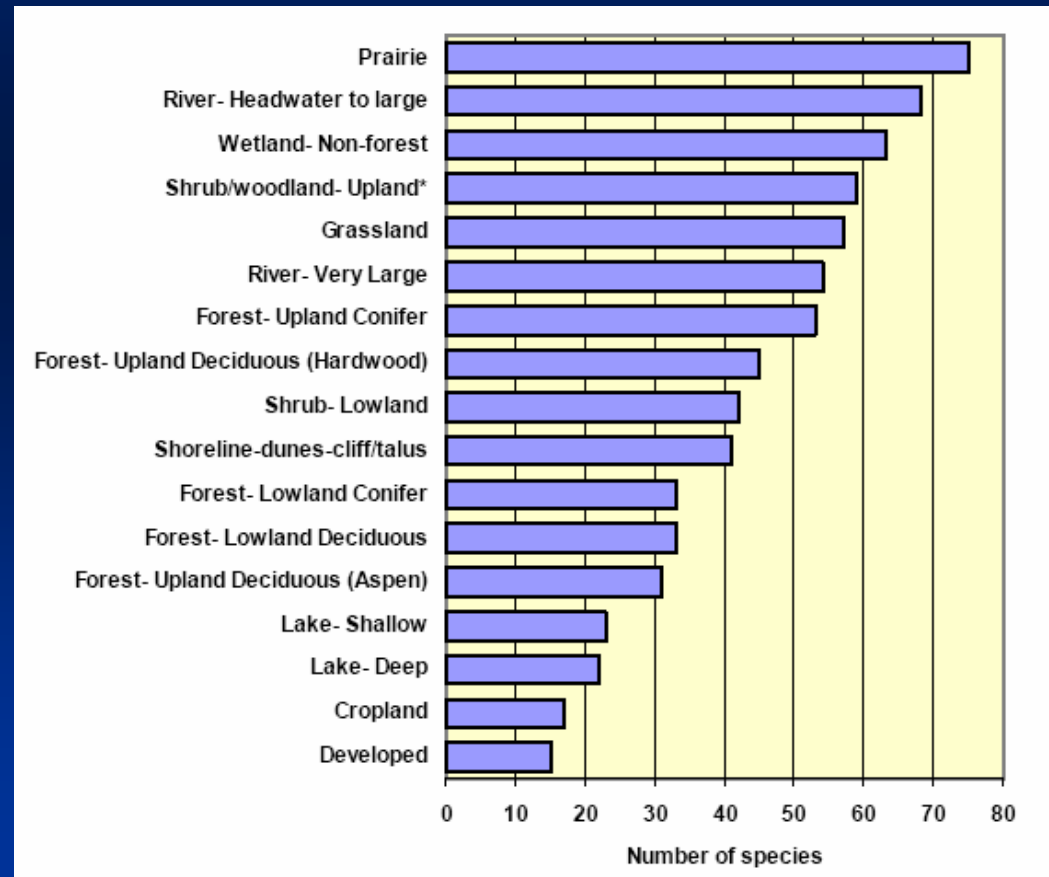




Minnesota: Species



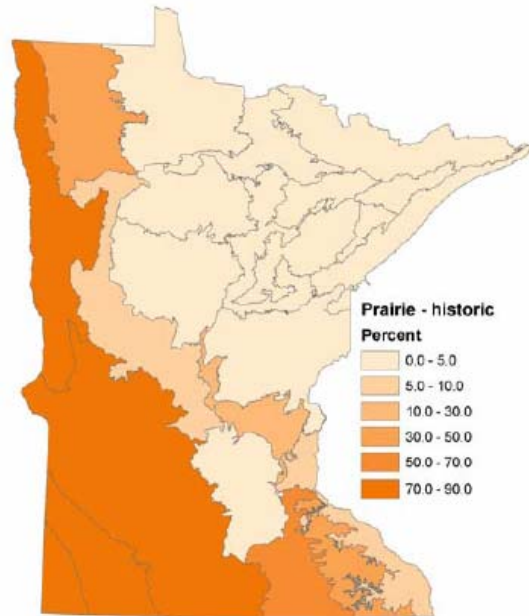
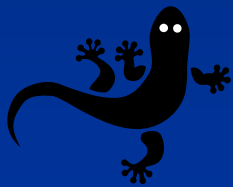
- 292 Species of Greatest Conservation Need
- Number in each habitat
- Key habitats = all except cropland and developed



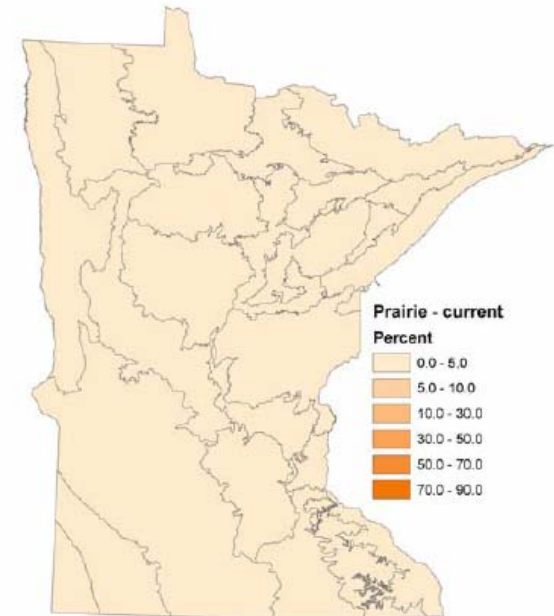


Minnesota: Habitats

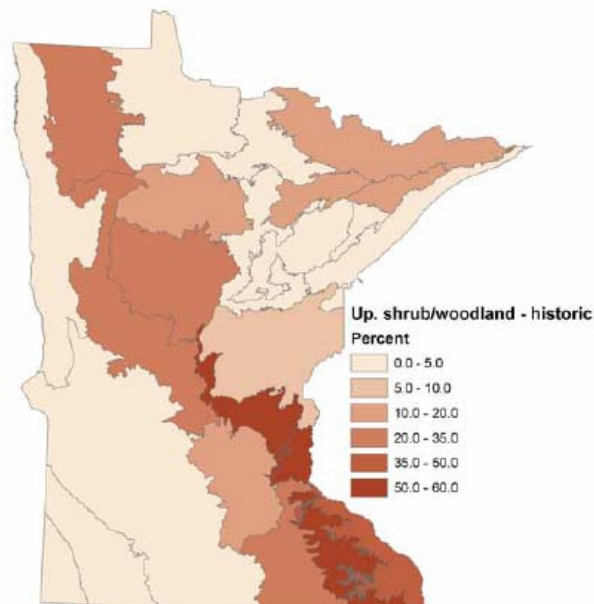
- Historic (1929) and current distribution
- Prairie
- Shrub / Woodland



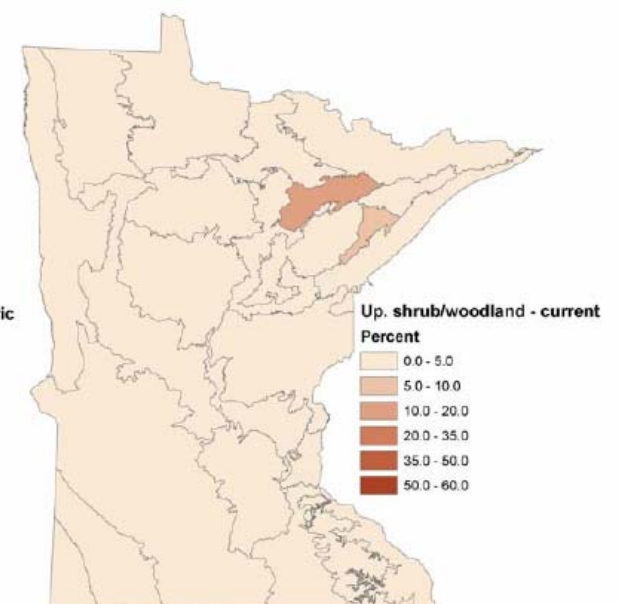
Source: Marschner 1929



Source: MN GAP 1994



Source: Marschner 1929

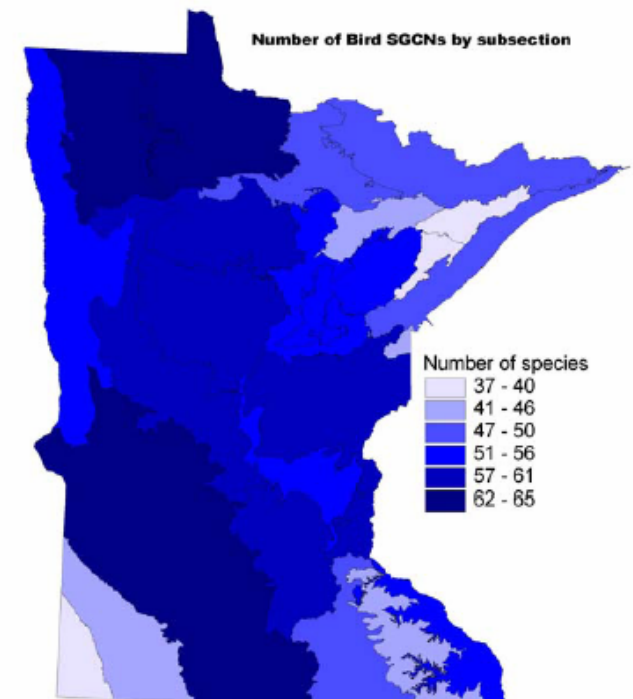
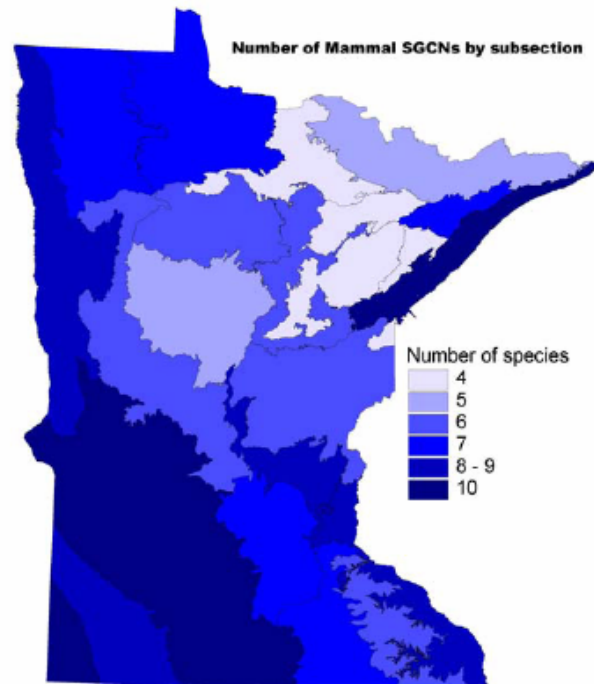
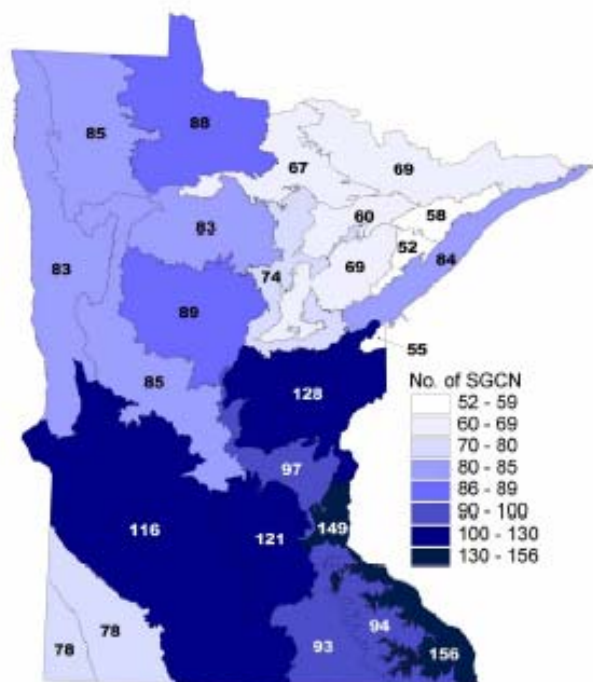


Source: MN GAP 1994



Minnesota: Species of Greatest Conservation Concern

- Total number in each subsection
- Mammals in each subsection
- Birds in each subsection



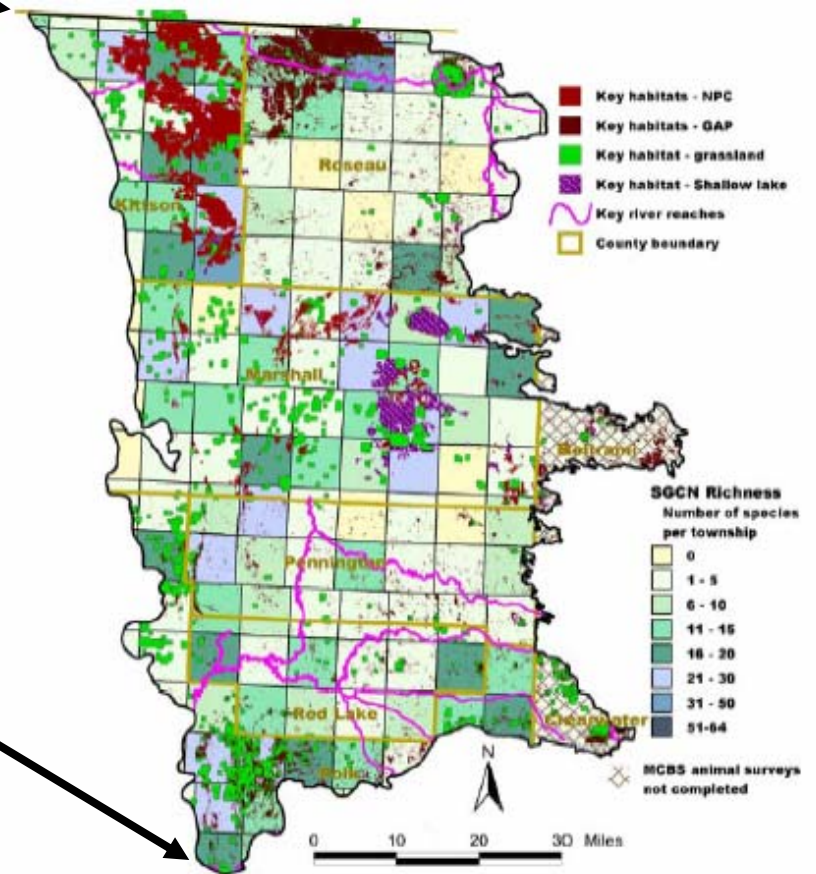
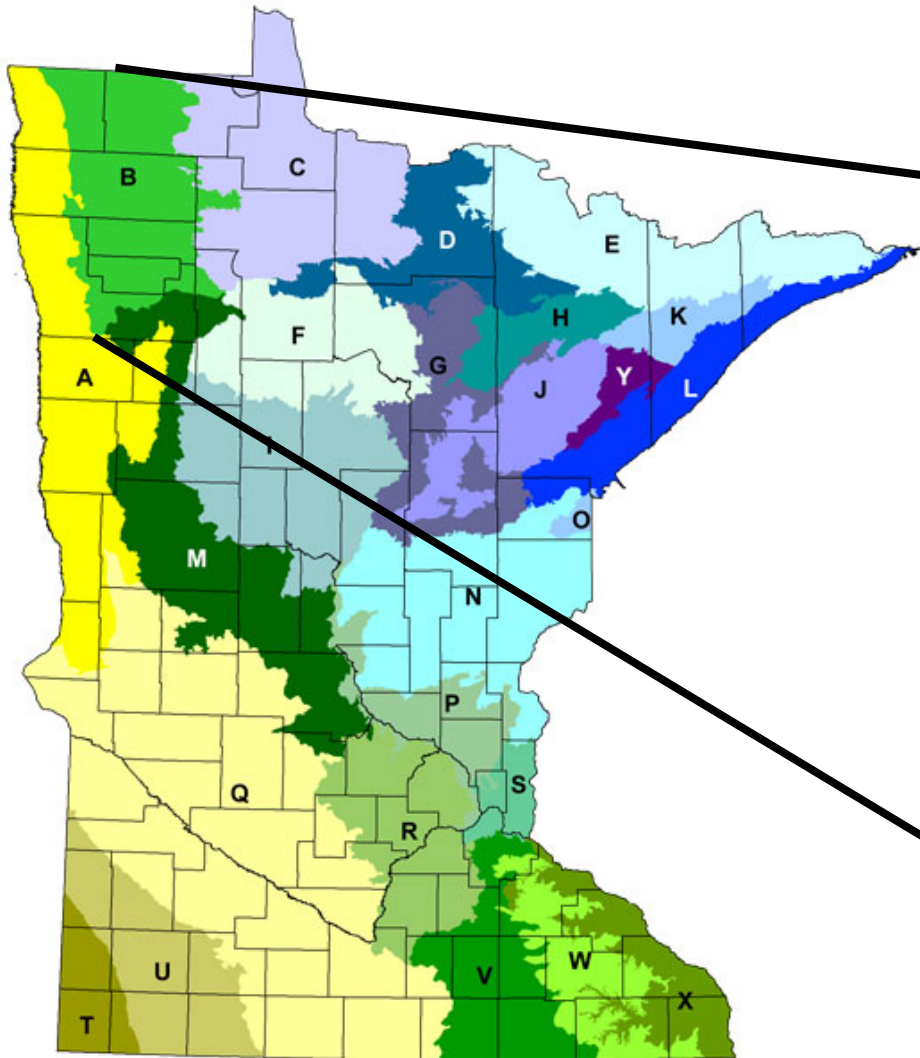


Minnesota: Priorities



- Ecological provinces:
25 “subsections”

- B: Aspen Parklands
- Distribution of key habitats and species richness by township
- Local partnerships identify conservation opportunities





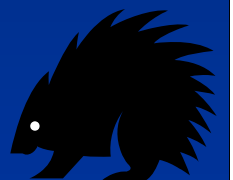
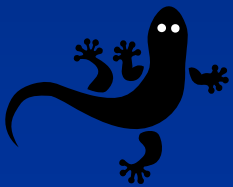
Wisconsin: Overview

+ Approved

~ Maps priority habitats but
not focus areas

+ Easements

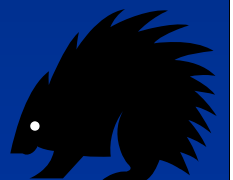
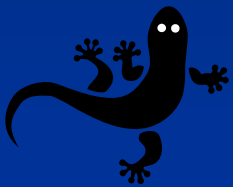
www.dnr.state.wi.us/org/land/er/cwcp





Wisconsin: Easements

- Mentioned briefly as conservation tool for these habitat groups:
 - Grassland Group
 - Miscellaneous Group
 - Northern Forest Group
 - Southern Forest Group
 - Wetland Group
- Not mentioned for these habitat groups:
 - Aquatic Group
 - Barrens Group
 - Oak Savanna Group

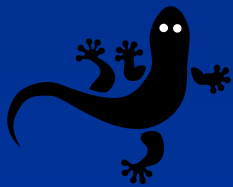
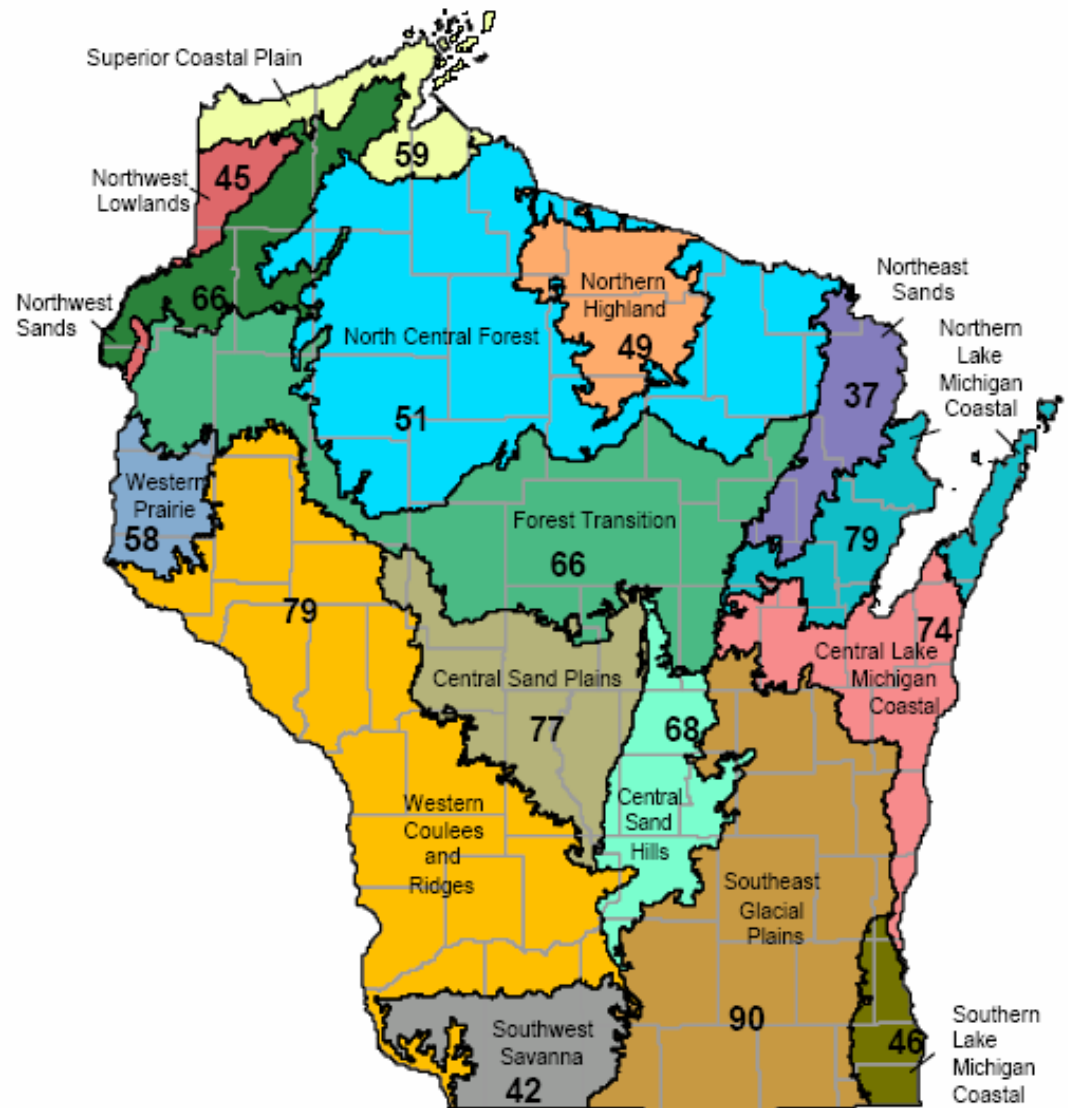




Wisconsin: Species



- 152 vertebrate Species of Greatest Conservation Need
- Distribution →
- 530 invertebrate Species of Greatest Conservation Need





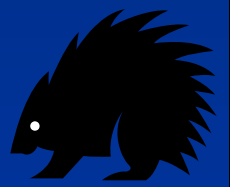
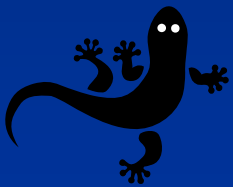
Michigan: Overview

+ Approved

~ Maps priority habitats but not focus areas

+ Easements

www.michigan.gov/dnr click on Wildlife and Habitat,
then Wildlife Action Plan

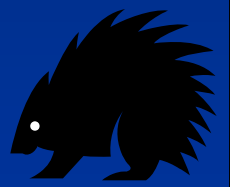
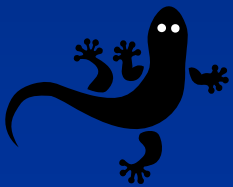




Michigan: Species



- 404 Species of Greatest Conservation Need
- ~1/2 are invertebrates
- Includes plants



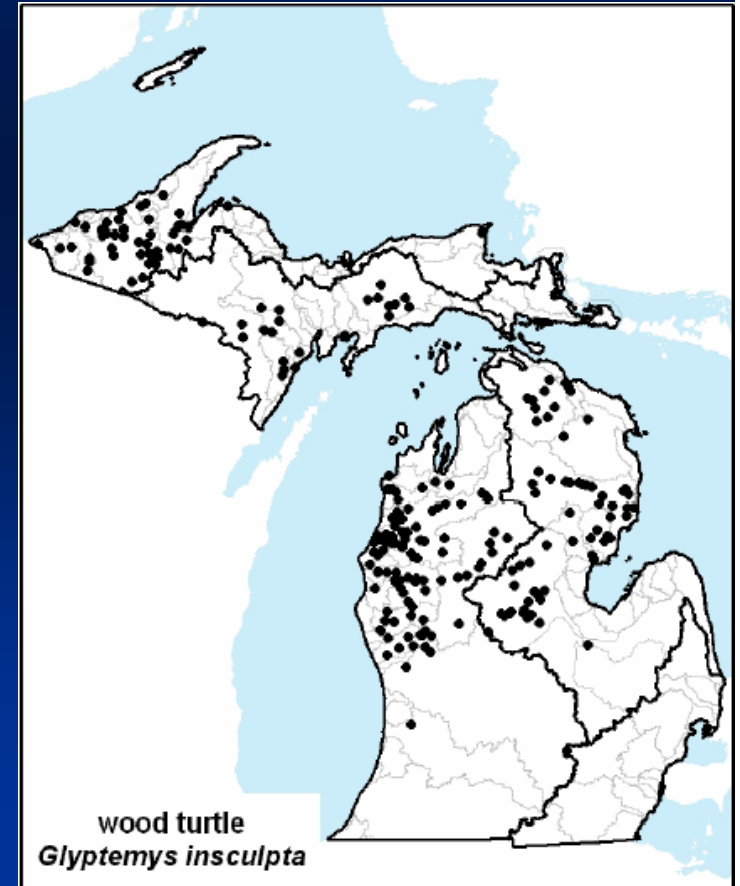
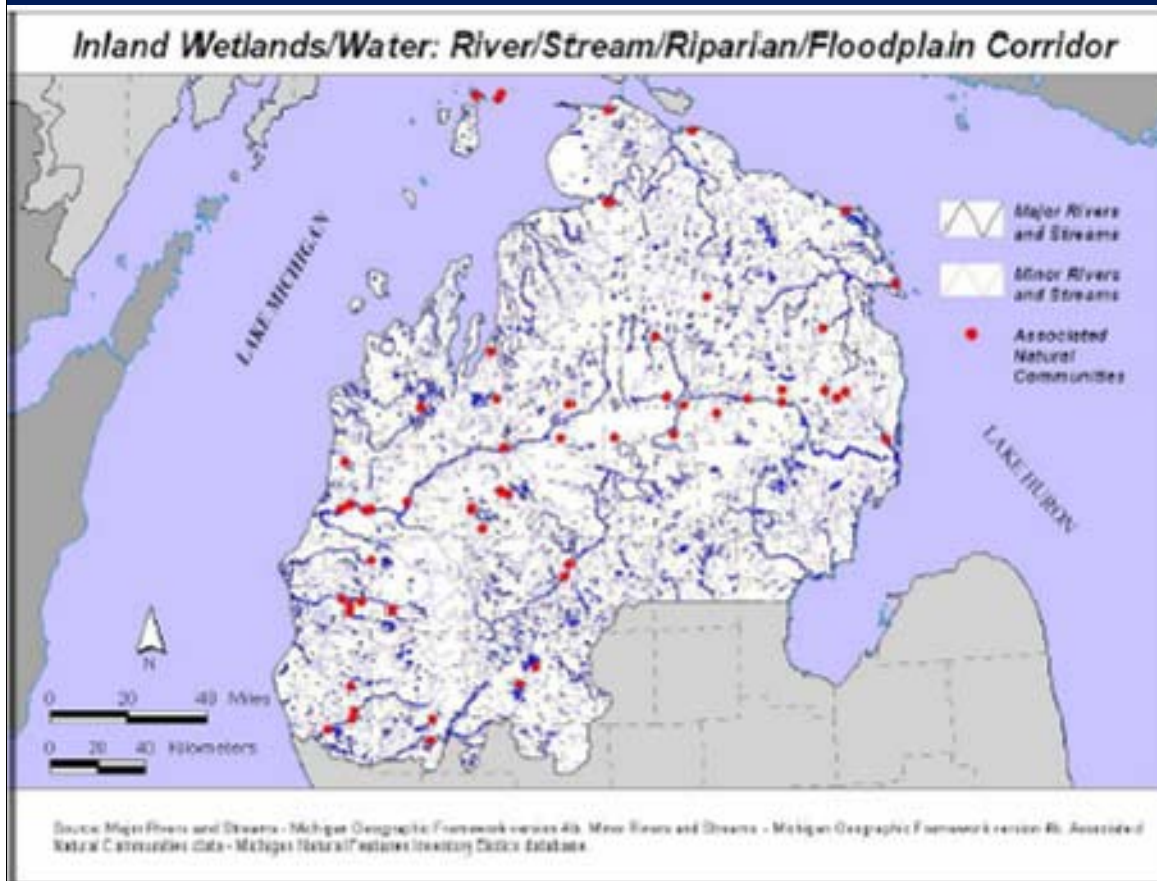


Michigan: Maps



- Habitat maps without priorities

- Species maps without species richness

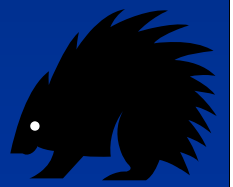
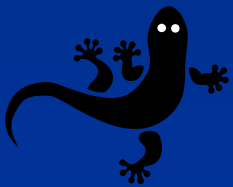




Nebraska: Overview

- + Approved
- + Maps focus areas and priority habitats
- + Easements

www.ngpc.state.ne.us/wildlife/programs/legacy

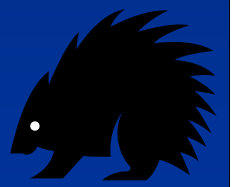
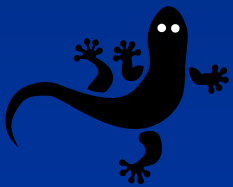




Nebraska: Easements



- Encourage and support the formation of new (or expansion of existing) land trusts to acquire and manage conservation easements that conserve biological diversity in Nebraska
- Use easements to facilitate the long-term protection of biologically important lands enrolled in short-term conservation programs (e.g. Conservation Reserve Program)

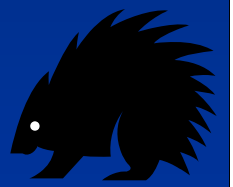
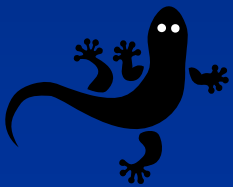




Nebraska: Species



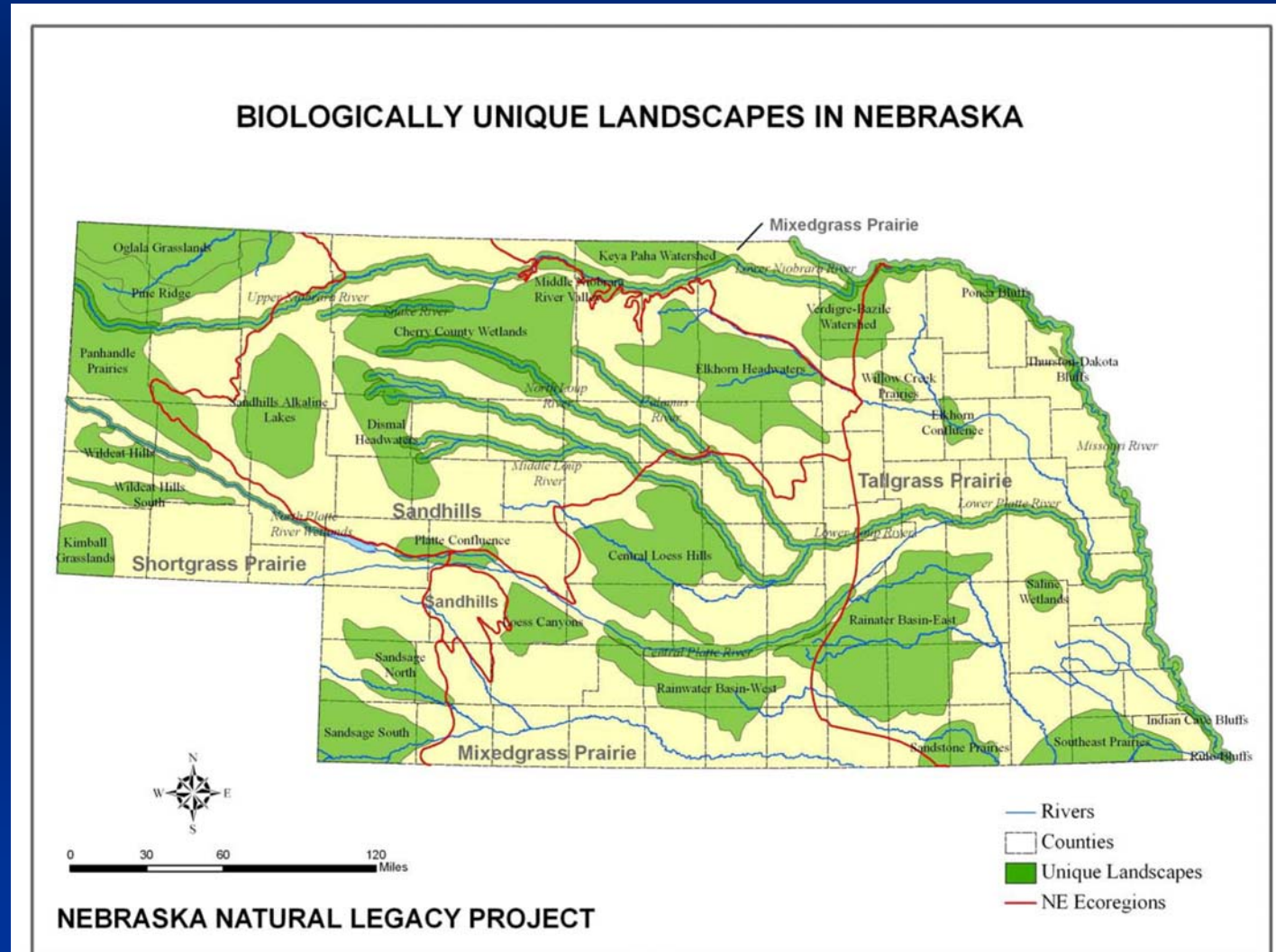
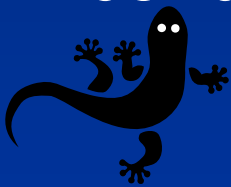
- 80 Tier 1 at-risk species
 - Globally or nationally at risk
- 500+ Tier 2 at-risk species
 - At-risk in Nebraska but OK elsewhere
- Includes plants
- Goals
 - number of populations to conserve
 - number of habitat occurrences to conserve





Nebraska: Focus Areas

- Biologically unique landscapes
- Ranking based on rarity / at risk status
- Improve habitat conditions

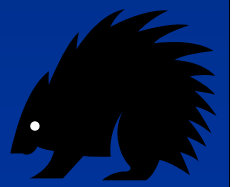
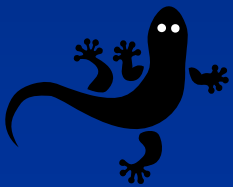




Kansas: Overview

- + Approved
- Maps all habitats or land cover but not priorities
- + Easements

kdwp.state.ks.us/other_services/wildlife_conservation_plan

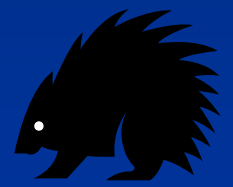
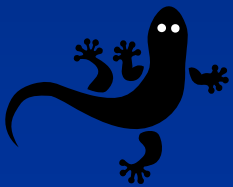




Kansas: Easements (n=44)



- Increase funding and use of Grassland Reserve Program, Wetland Reserve Program, and other conservation easements to reverse the trend of habitat conversion and encourage reconversion back to habitat.
- Use conservation easements to prevent further fragmentation of habitats.
- Monitor the use of easements:
 - Track counties involved in conservation easements and other contracts
 - Develop map / database that tracks easements on important habitats
- Actively seek, expand, and encourage use of easements on critical habitat and for critical species
 - At-risk habitats
 - Playa lakes
 - Black-tailed prairie dog
- Pay landowners for easements

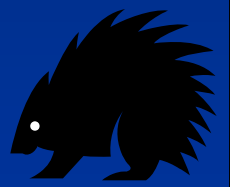
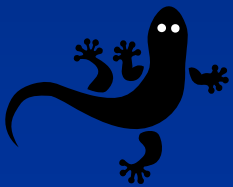




Kansas: Species



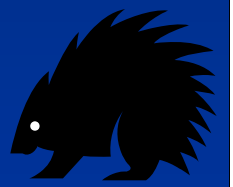
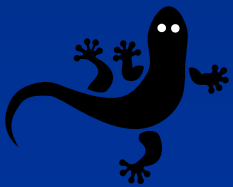
- 315 Species of Greatest Conservation Need
- 3 tiers with ~1/3 in each tier
- Based on criteria and ranking





Kansas: Key Habitats

- Key habitats identified for each ecoregion, but not mapped
- Focus areas not identified or mapped



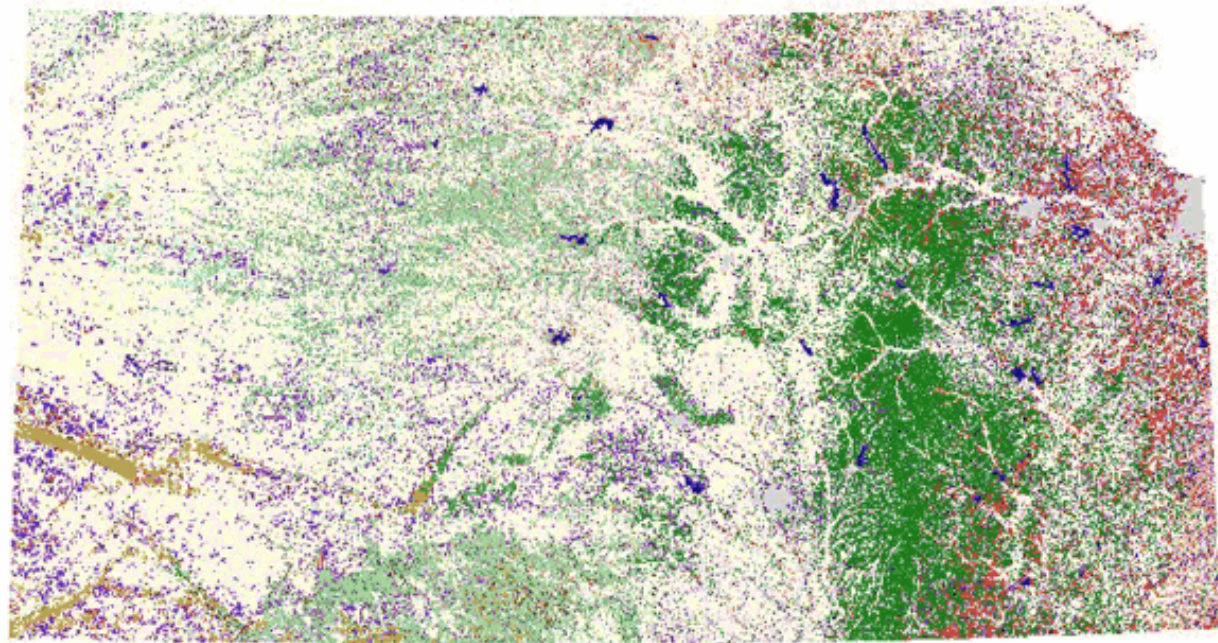


Kansas: Maps



- 3 ecoregions
- Landcover (habitats)
- That's it!

Landcover of Kansas



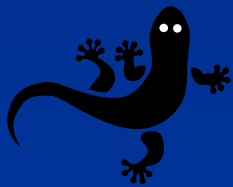
GAP Land Cover

Maple-Basswood Forest
Oak-Hickory Forest
Post-Oak-Blackjack Oak Forest
Pecan Floodplain Forest
Ash-Elm-Hackberry Floodplain Forest
Cottonwood Floodplain Forest
Mixed Oak Floodplain Forest
Bur Oak Floodplain Woodland
Mixed Oak Ravine Woodland
Post-Oak-Blackjack Oak Woodland
Cottonwood Floodplain Woodland
Sandsage Shrubland
Willow Shrubland

Buttonbush (Swamp) Shrubland
Tallgrass Prairie
Sand Prairie
Western Wheatgrass Prairie
Sandstone Glade/Prairie
Mixed Prairie
Alkali Sacaton Prairie
Shortgrass Prairie
Grass Playa Lake
Salt Marsh/Prairie
Spikerush Playa Lake
Playa Lake
Low or Wet Prairie
Freshwater Marsh

Alkaline Marsh
Cattail Marsh
Forb Playa Lake
Non-native Grassland
CRP
Salt Cedar/Tamarisk Shrubland
Cultivated Land
Deciduous Forest-Mined Land
Maple Floodplain Forest
Evergreen Forest-Disturbed Land
Deciduous Woodland
Mixed Prairie-Disturbed Land
Weedy Marsh

Weedy Upland
Urban Areas
Water
No Data

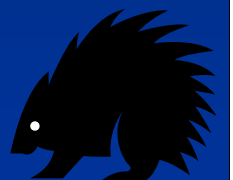
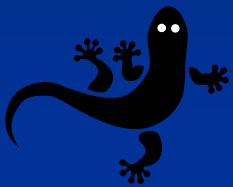




Iowa: Overview

- Conditionally approved (monitoring)
- ~ Maps priority habitats but not focus areas
- + Easements

www.iowadnr.com/wildlife/files/IAcomprehensive_plan

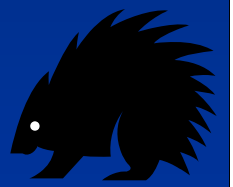
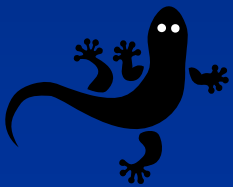




Iowa: Easements



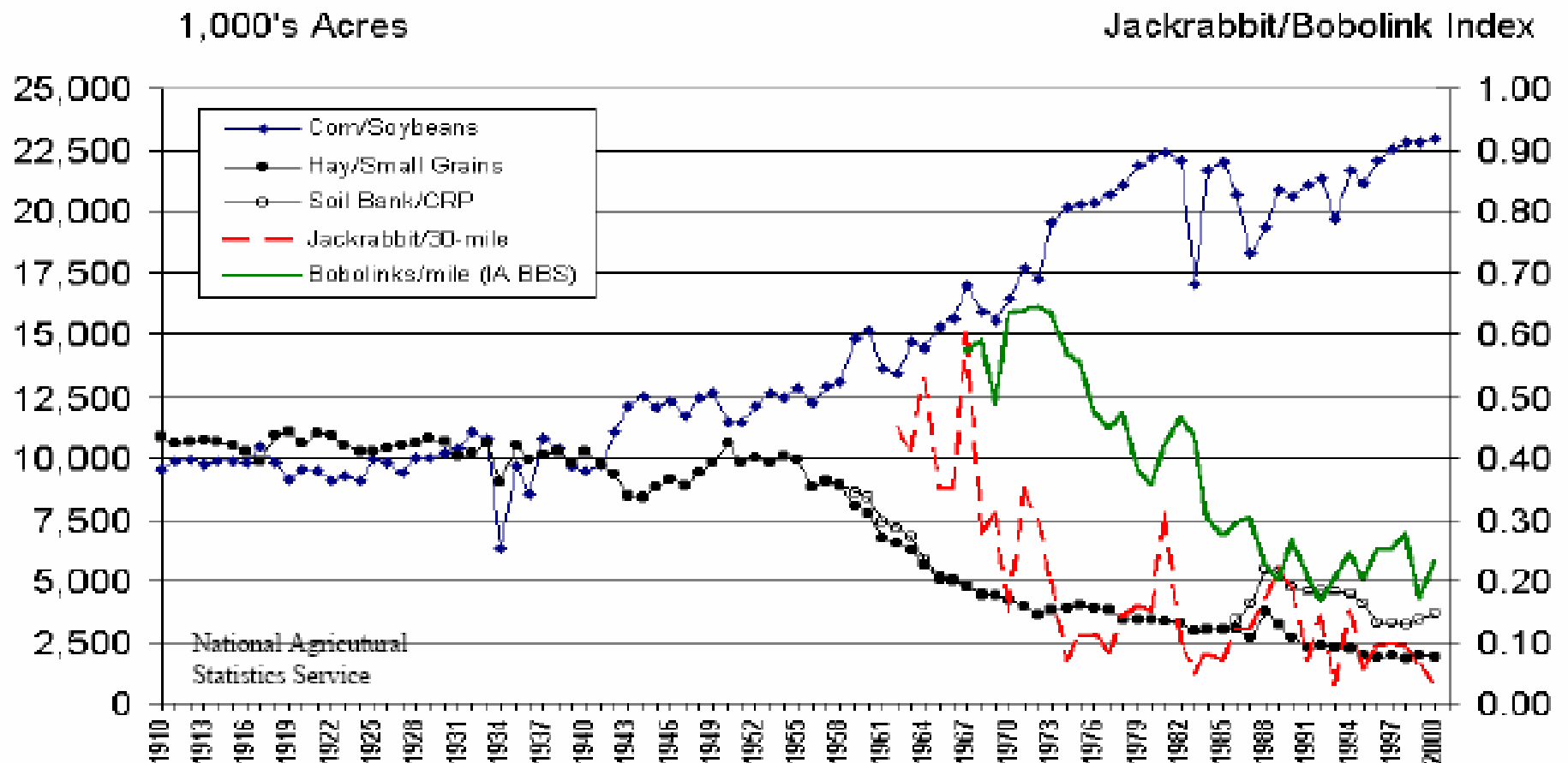
- Identify and protect large habitat blocks to avoid habitat fragmentation.
- Use permanent easements and acquisition to permanently protect habitat within larger target areas.
- At-risk snails: use conservation easements and cost-share programs on private lands.
- Glacial relict plant and animal communities: protect with conservation easements on private lands





Iowa: Species

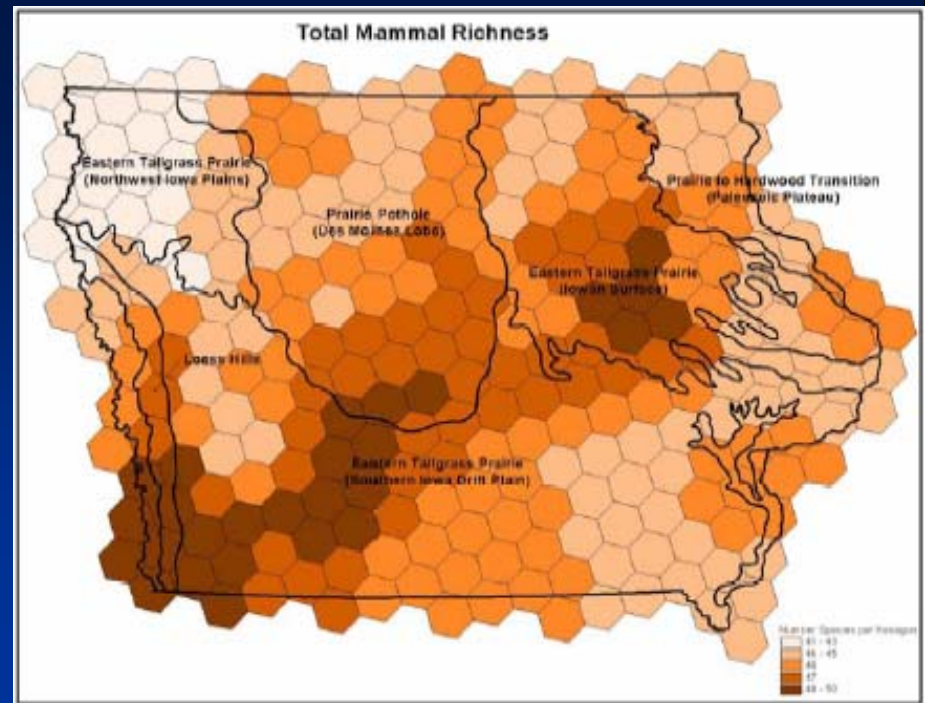
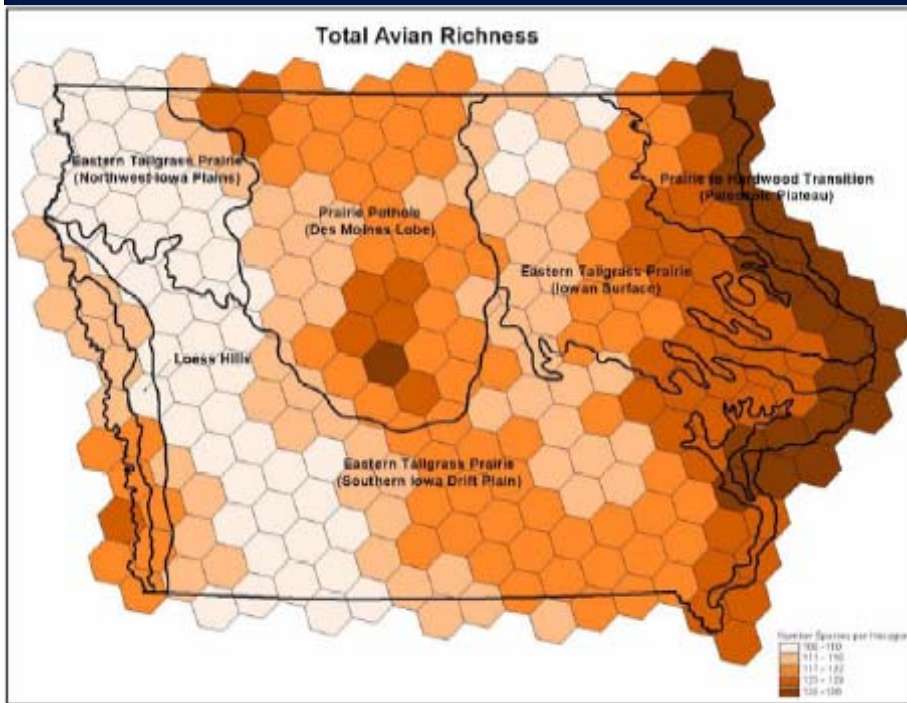
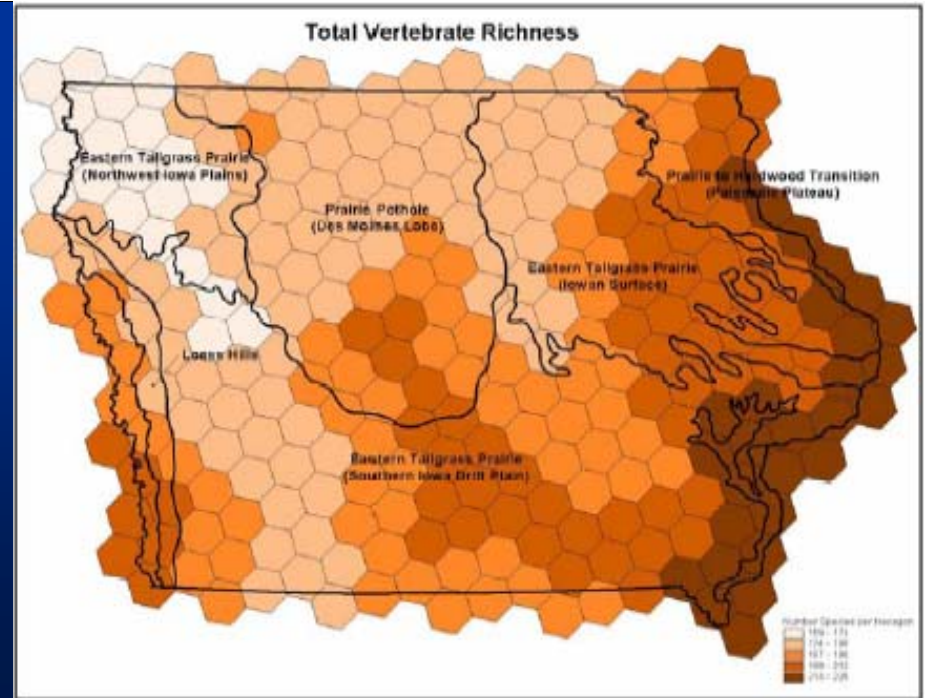
- 297 Species of Greatest Conservation Need





Iowa: Species Richness

- GAP (Gap Analysis Program)
- Total richness doesn't capture mammals well



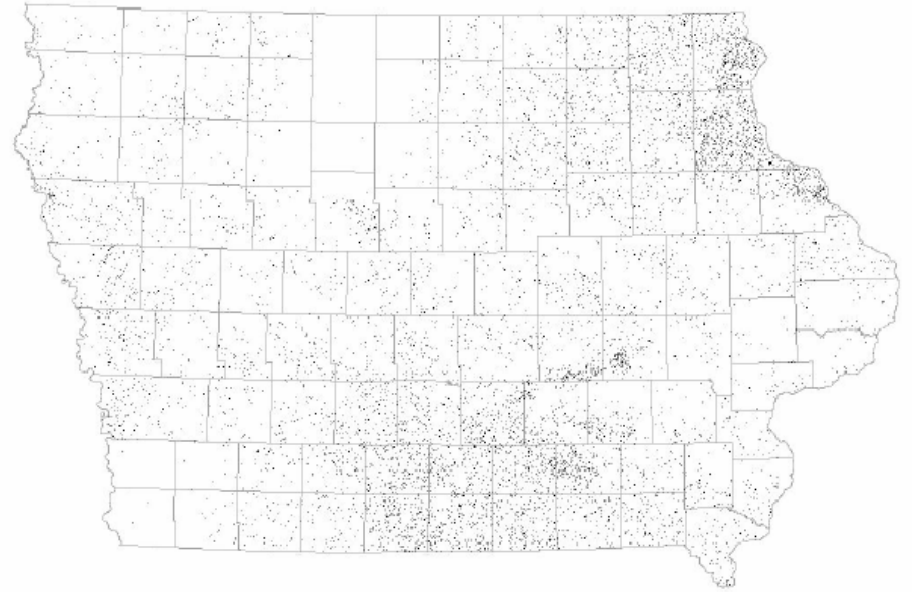


Iowa: Maps

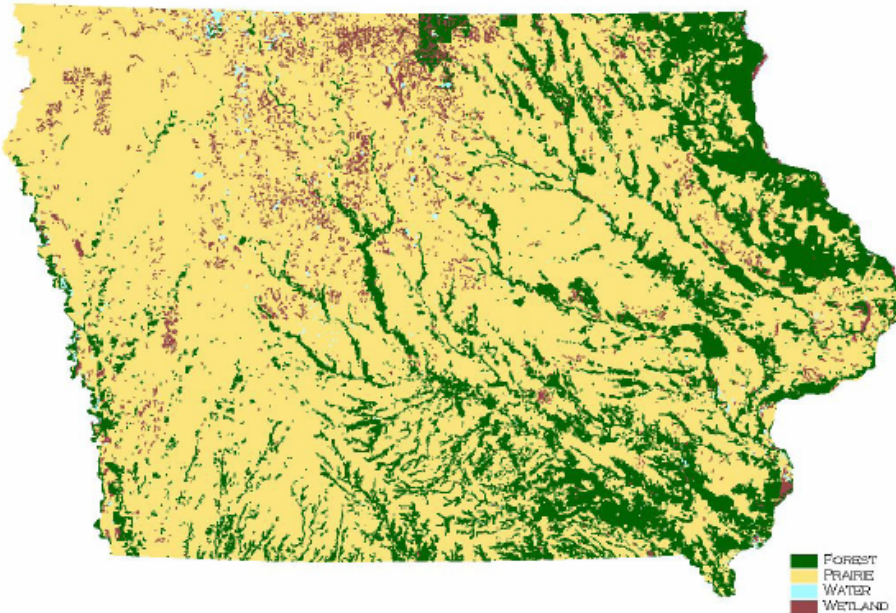
- Key habitats
- Land cover



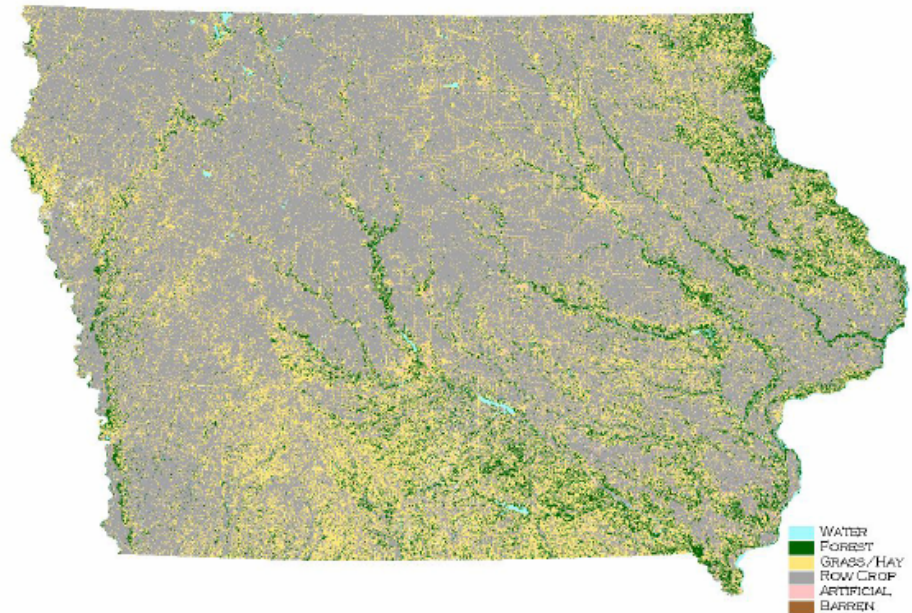
1992 GAP LANDCOVER
SAVANNA CLASS - 642,384 ACRES

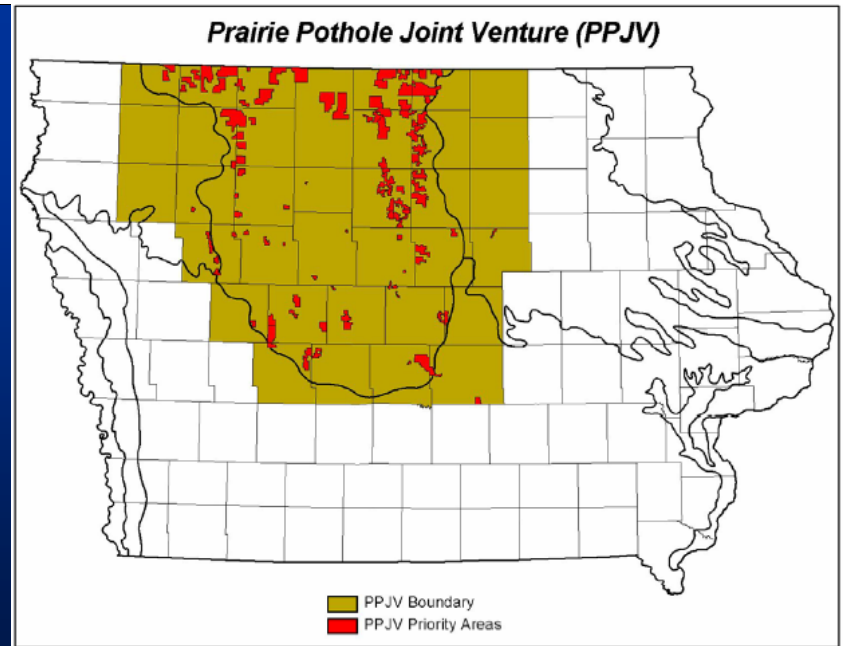
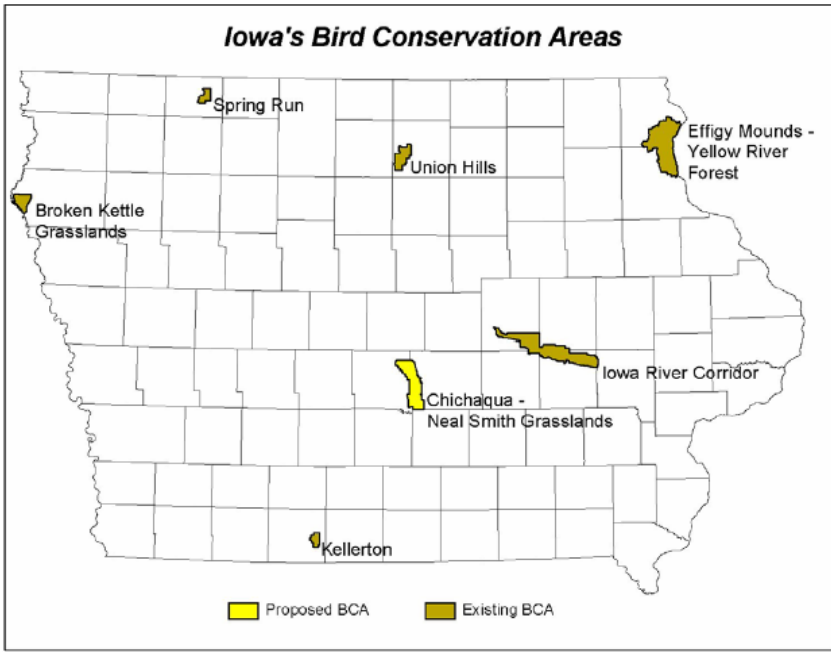


1850s LANDCOVER OF IOWA

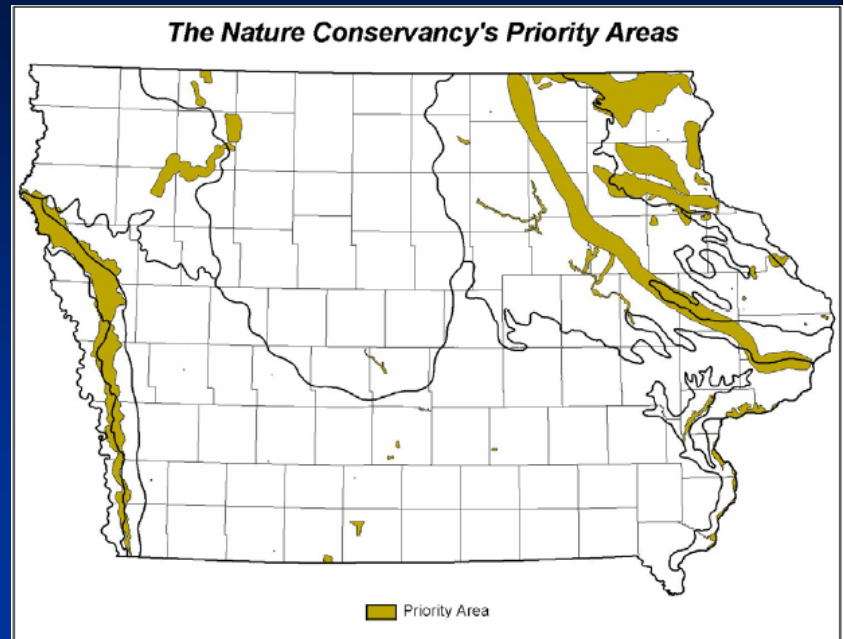
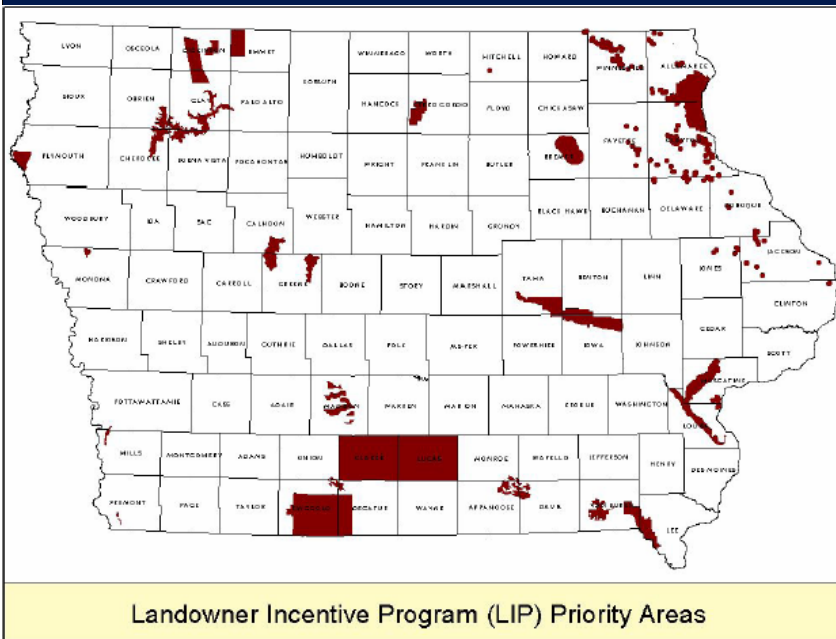


2000 LANDCOVER OF IOWA





Iowa: Previous Efforts to ID Priority Areas





Missouri: Overview

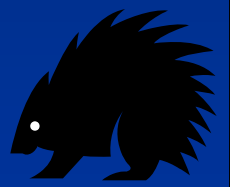
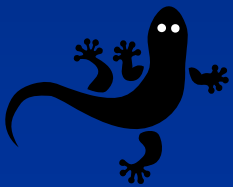
+ Approved

+ Maps focus areas and priority habitats

+ Easements

www.mdc.mo.gov/documents/conmag/2005/20051001.pdf

“Missouri Conservationist” (full plan not on web)

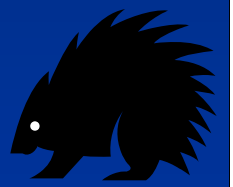
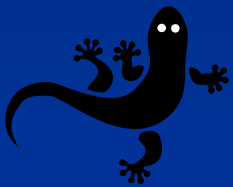




Missouri: Species



- Can't conserve every species one by one
- Desired outcome: functioning habitats, natural communities, and healthy landscapes that produce diverse wildlife into the future
- Species of concern identified in each ecosystem
- Plan includes plants

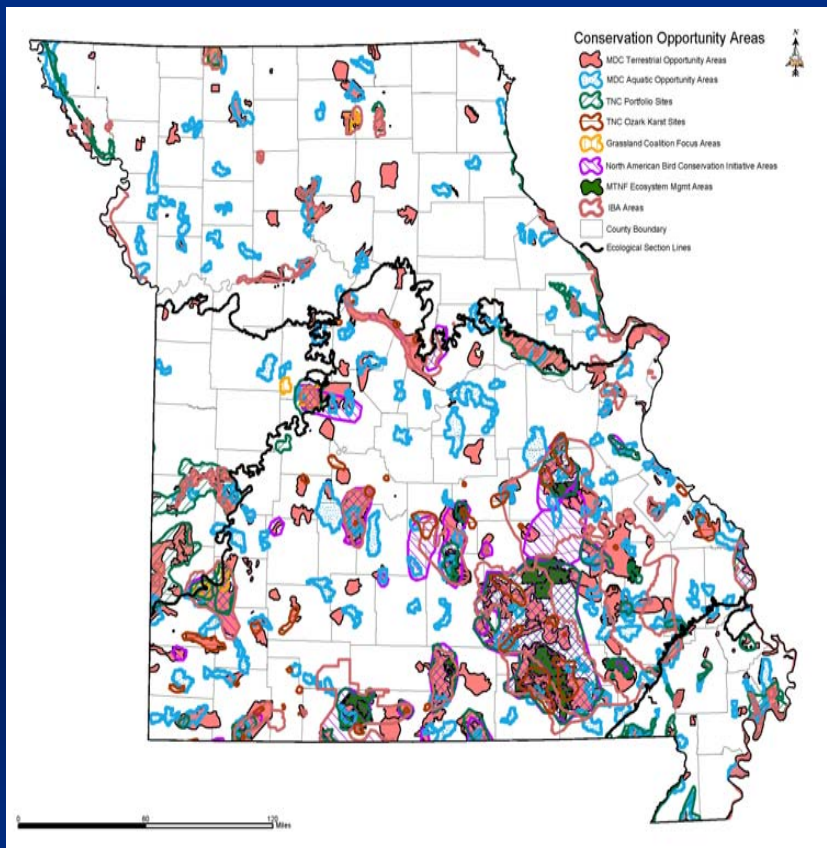




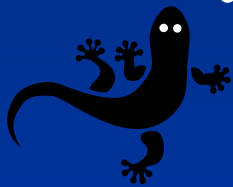
Missouri: Maps



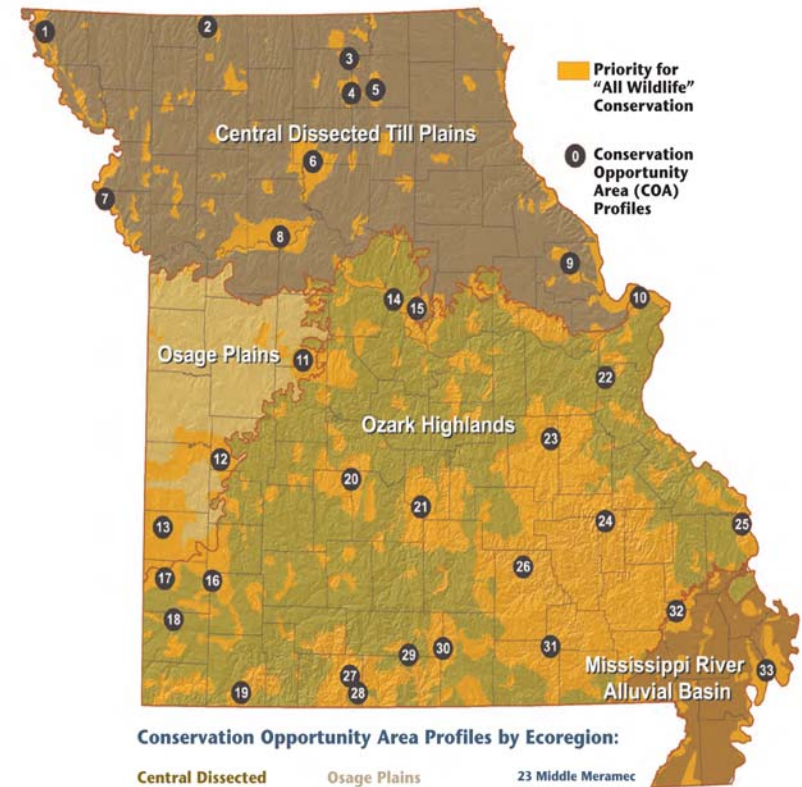
- Overlapping priorities from several conservation partners



- Conservation Opportunity Areas represent native ecosystems, communities, and species



Conservation Opportunity in Missouri



Conservation Opportunity Area Profiles by Ecoregion:

Central Dissected Till Plains

- 1 Loess Hills
- 2 Grand River Grasslands
- 3 Union Ridge
- 4 Mystic Plains
- 5 Thousand Hills Woodland
- 6 Lower Grand River
- 7 Iatan/Weston Missouri River Corridor
- 8 Wakenda Bottoms
- 9 Cuirve River Hills
- 10 Missouri/Mississippi River Confluence

Osage Plains

- 11 Cole Camp/Hi Lonesome
- 12 Marmaton/Wah'Kon-tah
- 13 Western Cherokee Grasslands
- 14 Manitou Bluffs
- 15 Bonne Femme Karst
- 16 Golden Grasslands
- 17 Spring River
- 18 Shoal Creek
- 19 Roaring River
- 20 Niangua Basin
- 21 Upper Gasconade River Hills
- 22 LaBarque Creek Watershed

- 23 Middle Meramec
- 24 St. Francois Knobs
- 25 Cape Hills
- 26 Current River Hills
- 27 White River Glades and Woodlands
- 28 Tumbling Creek Cave Ecosystem
- 29 Bryant Creek
- 30 North Fork
- 31 Eleven Point Hills

Mississippi River Alluvial Basin

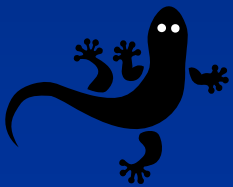
- 32 Mingo Basin
- 33 River Bends



Illinois: Overview

- + Approved
- + Maps focus areas and priority habitats
- + Easements

dnr.state.il.us/orc/wildliferesources/theplan

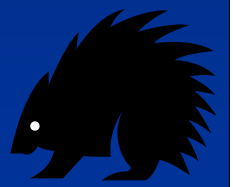
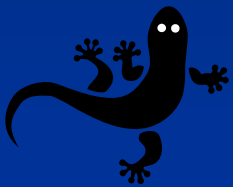




Illinois: Easements



- Target easements to achieve desired wildlife and habitat benefits, based on sound principles of reserve design, patch size, and long-term viability
- Restoration / enhancement / stewardship funding for new easements
- Specific tool for several conservation opportunity areas

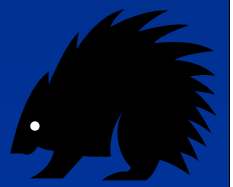
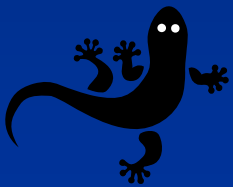




Illinois: Species



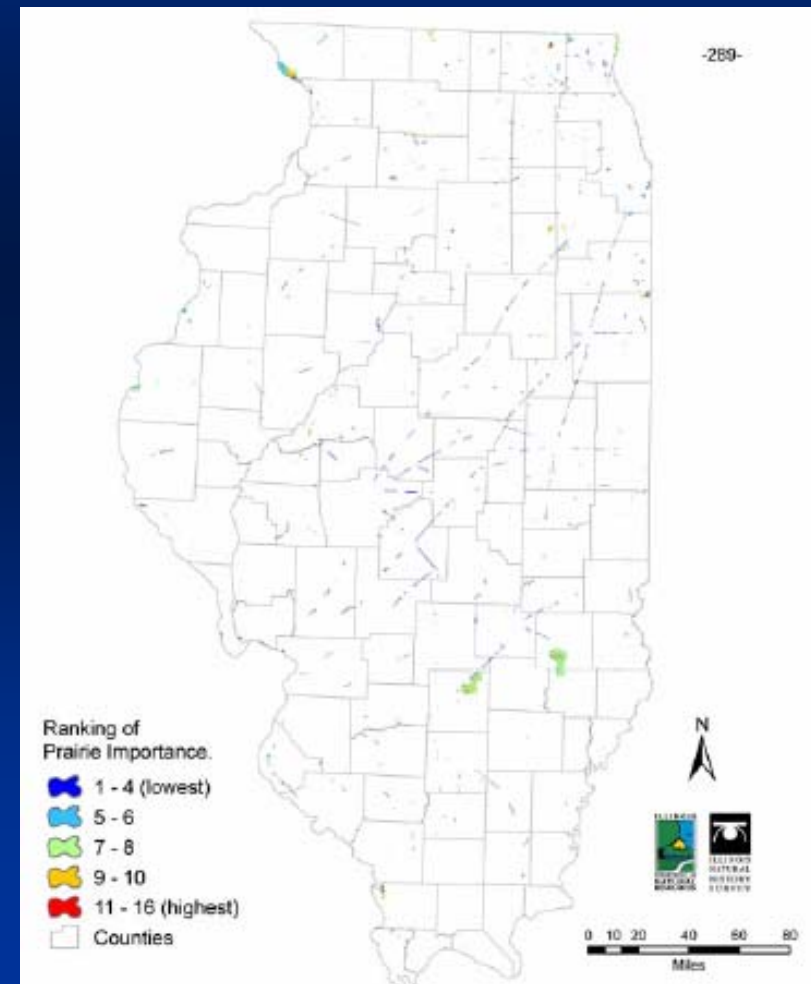
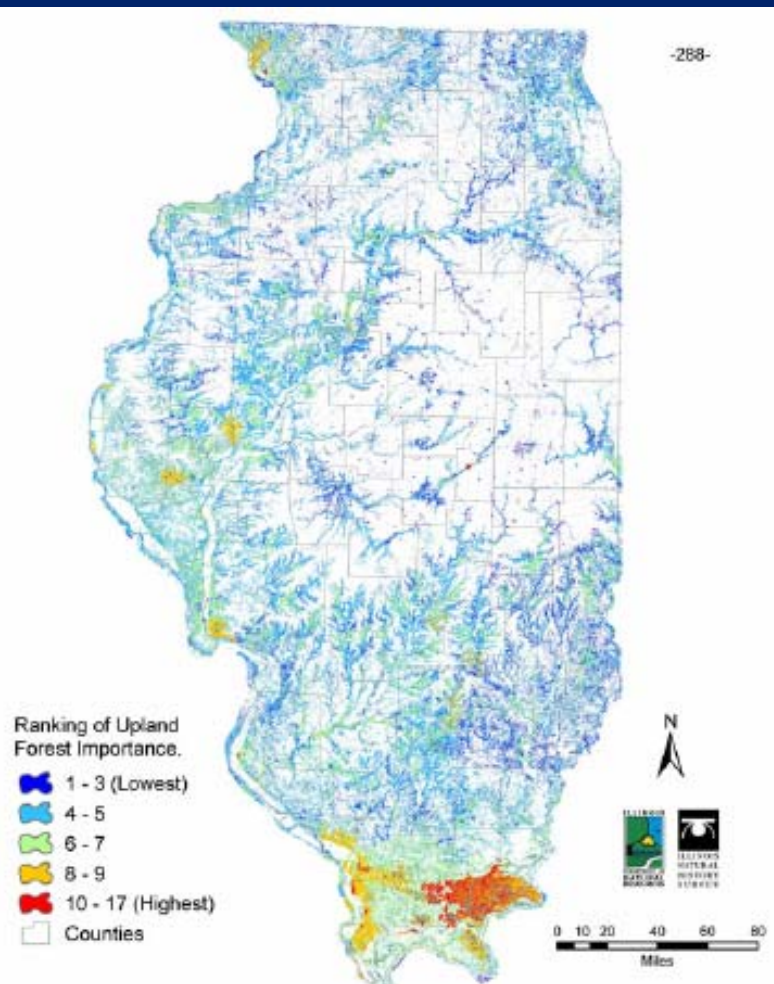
- 249 Species of Greatest Conservation Need
- Goals for desired condition in 2025:
 - Species
 - Habitat conditions





Illinois: Priority Areas

- Key habitat conservation priorities based on Species of Greatest Conservation Need





Illinois: Priority Areas



- Priority areas identified in previous plans
- Focus areas selected by workshop participants

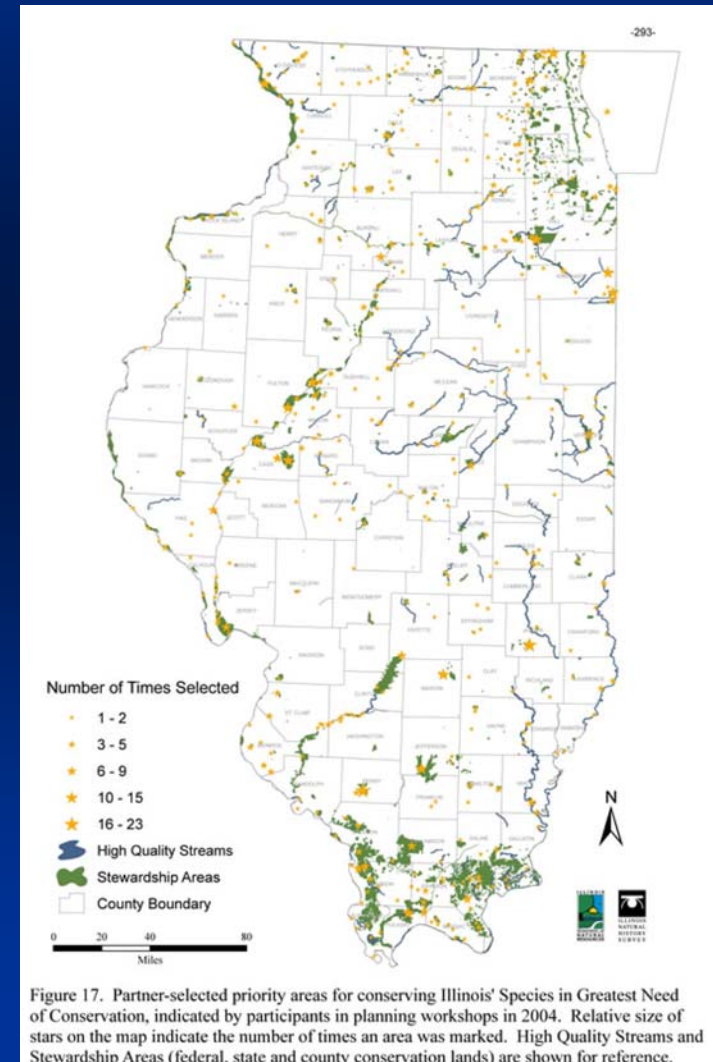
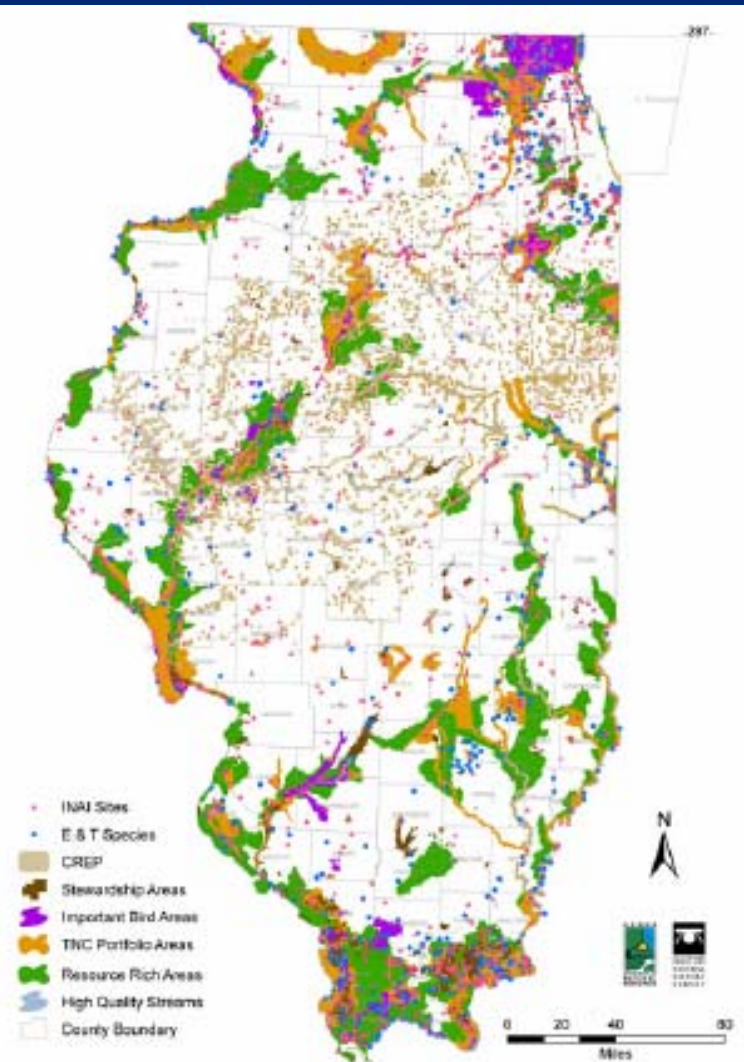


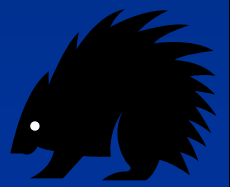
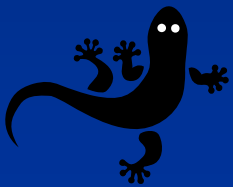
Figure 17. Partner-selected priority areas for conserving Illinois' Species in Greatest Need of Conservation, indicated by participants in planning workshops in 2004. Relative size of stars on the map indicate the number of times an area was marked. High Quality Streams and Stewardship Areas (federal, state and county conservation lands) are shown for reference.



Indiana: Overview

- Conditionally approve (issues, actions, and priorities not adequately linked to species and habitats)
 - Maps general habitats only and no priorities
- + Easements

www.djcase.com/incws

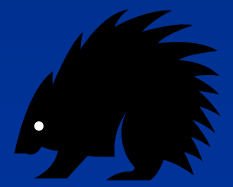
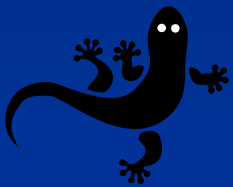




Indiana: Easements



- Land trusts and public funds are the primary mechanisms to protect significant habitats
- Tools for private lands management:
 - incentives for habitat protection and restoration
 - conservation easements
- State included land trusts when they developed the wildlife action plan





Indiana: Easements



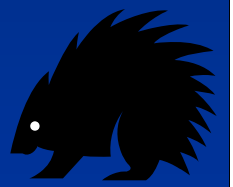
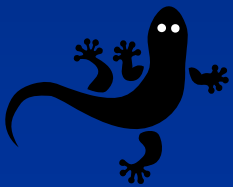
- Easements ranked #2 out of 17 conservation actions identified to protect habitats

Conservation Action	All habitats combined	Agriculture	Aquatic systems	Barren lands	Developed lands	Forested lands	Grasslands	Subterranean systems	Wetlands
Habitat protection on public lands	1	1 (tie)	5	2	3 (tie)	3	2	5	1
Cooperative land management agreements (conservation easements)	2		4	3 (tie)	3 (tie)	8	3	2	3
Habitat restoration on public lands	3	1 (tie)	3	3 (tie)	2	4	4	7 (tie)	4
Habitat restoration incentives (financial)	4	2 (tie)	1	3 (tie)	1 (tie)	7 (tie)	1	7 (tie)	9 (tie)



Indiana: Species

- 181 Species of Greatest Conservation Need
- Includes plants

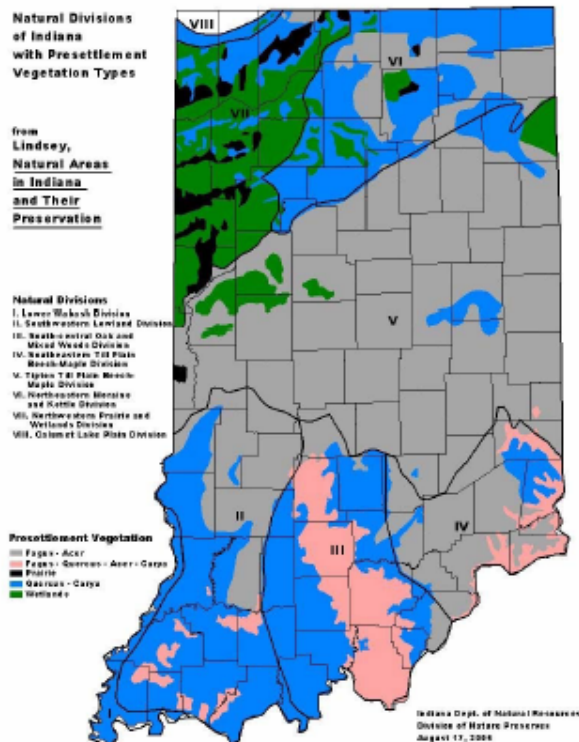




Indiana: Maps

- Historical vegetation
- Current habitat / land use maps
 - Habitats not prioritized
 - Focus areas not identified

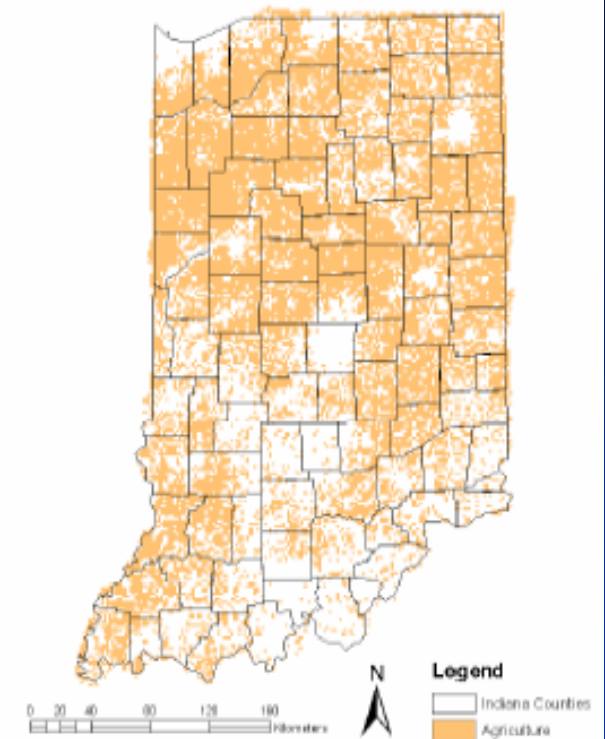
Figure 10: Presettlement vegetative condition in Indiana (Source: Lindsey et al 1965)



Indiana State Grasslands Mapping



Indiana State Agriculture Mapping

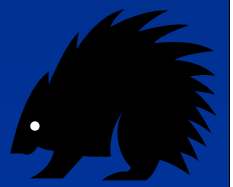
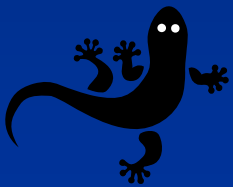




Ohio: Overview



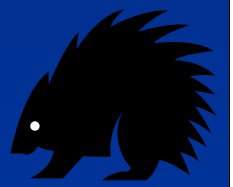
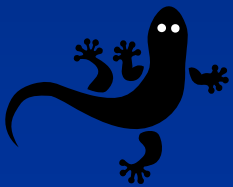
- ? Awaiting approval decision from USFWS
- ~ Maps focus areas, but not priority habitats
- Easements (not mentioned)
- www.dnr.state.oh.us/wildlife (not posted)





Ohio: Species

- 380 Species of Greatest Conservation Need
- Includes all species that are not pests or extinct

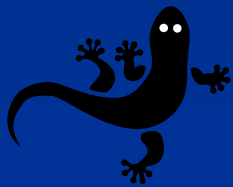
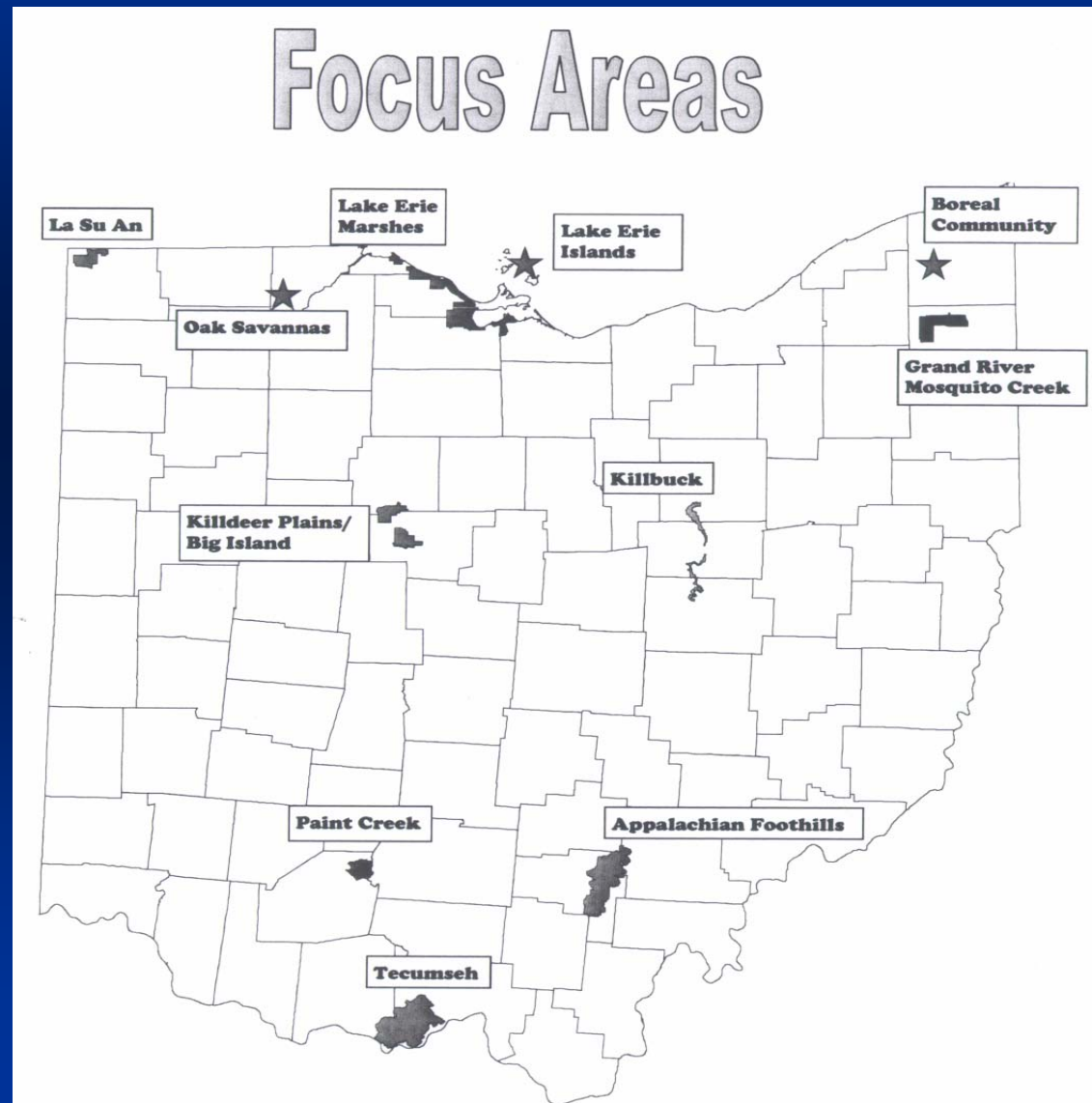




Ohio: Focus Areas



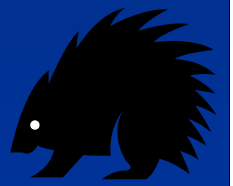
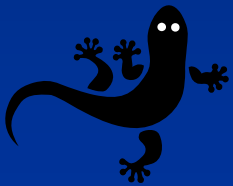
- 11 focus areas, very small
- Not much explanation for how they were chosen
- Detailed maps of each





Other Habitat Conservation Planning Efforts

- The Nature Conservancy – ecoregional assessments, portfolio sites
- Audubon – Important Bird Areas
- Conservation International – Biodiversity Hotspots
- Gap Analysis Program (GAP)

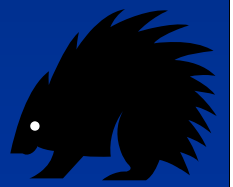
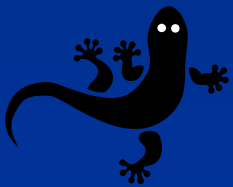




Questions:

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

Do you see opportunities to use your state's information or enter a partnership?

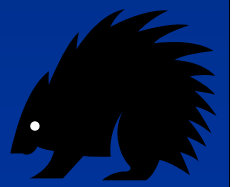
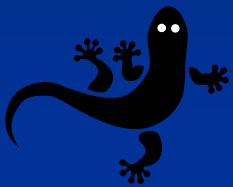




Funding for Biodiversity Conservation

(Federal Programs)

www.biodiversitypartners.org/incentives

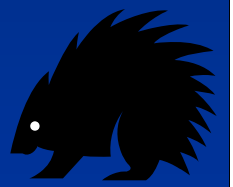
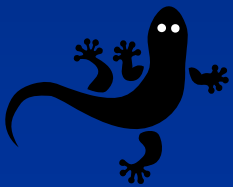




Federal Incentive Programs



- Purchase conservation easements
- Cost share (restoration, conservation)
- Rental payments
- Incentive / bonus payments
- Technical assistance

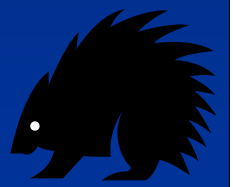
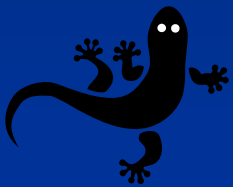




Easement Programs (NRCS)



- Emergency Watershed Protection Program (EWPP)
 - Floodplains after flooding, restoration too
 - Permanent
- Farm and Ranch Lands Protection Program (FRLP)
 - Agricultural lands
 - Permanent; held by land trust
- Grassland Reserve Program (GRP)
 - Grasslands vulnerable to conversion
 - 30 year or permanent
- Wetlands Reserve Program (WRP)
 - Restore farmed wetlands
 - 30 year or permanent

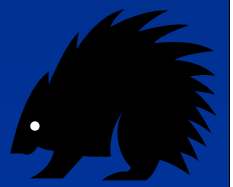
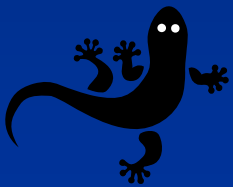




Easement Programs (not NRCS)



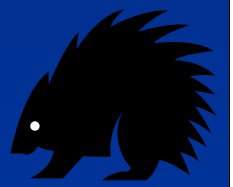
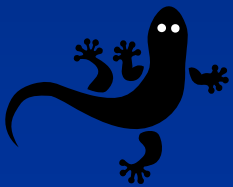
- Healthy Forests Reserve Program (HFRP; USFS / NRCS)
 - Forests with at-risk species
 - 10, 30, 99 year easements
- Forest Legacy Program (FLP; USFS / states)
 - Environmentally sensitive forest land
 - Permanent easement or acquisition
- Landowner Incentive Program (LIP; USFWS / states)
 - Listed and at-risk species, multiple species
 - Long term or permanent benefits → can be used for easements
 - Some states link to State Wildlife Action Plan





Cost Share Programs (NRCS)

- Environmental Quality Incentives Program (EQIP)
 - 4 priorities include at-risk species habitat
 - Focus is livestock operations and water quality
- Wildlife Habitat Incentives Program (WHIP)
 - All private land and some public land are eligible
 - State NRCS develops priorities

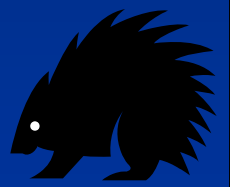
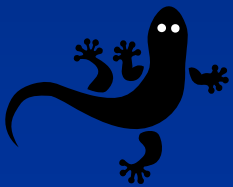




Cost Share Programs (USFWS)



- North American Wetlands Conservation Act Grants Program (NAWCA)
- Partners for Fish and Wildlife (PFW)
- Private Stewardship Program (PSP)

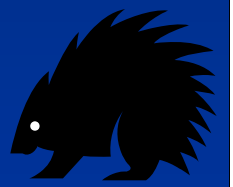
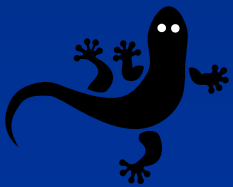




Cost Share Programs (USFS)



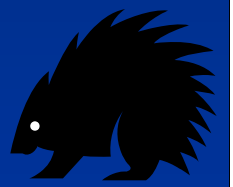
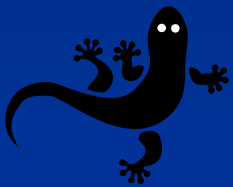
- Forest Land Enhancement Program (FLEP)
- Healthy Forests Reserve Program (HFRP)





Rental Programs (NRCS)

- Conservation Reserve Program (CRP)
 - Highly erodible lands
 - Recently expanded – rare and declining habitats
- Conservation Reserve Enhancement Program (CREP)
 - State / federal partnership; not all states
 - Often for riparian restoration for habitat and/or water quality

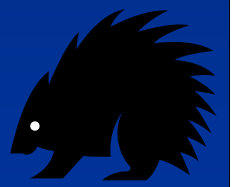
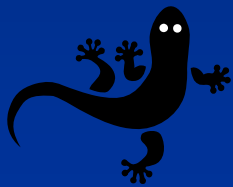




Stewardship Programs (NRCS)



- Conservation Security Program (CSP)
 - Rewards ongoing stewardship on producing land
 - Whole-farm approach
 - Available to all producers (any size, crop)
 - Offered by watershed
 - Tier III requires wildlife component

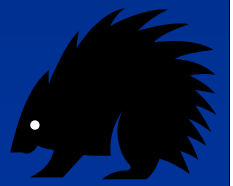
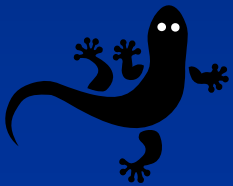




Challenges



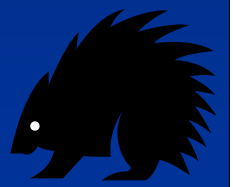
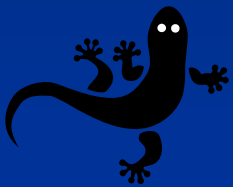
- Programs opportunistic
- Programs complex
 - Many programs, many agencies
 - Applications complex
- Lack of funding
 - Demand > funding
 - Technical assistance
 - Ag > forestry
- Lack of knowledge of programs
 - Landowners
 - Land trusts
- Restoration: landowner pays up front





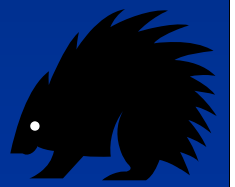
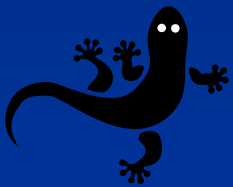
Question:

**What experience
have you had
with federal (or
other public)
funding?**





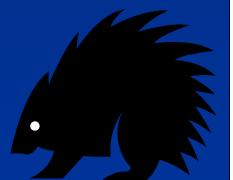
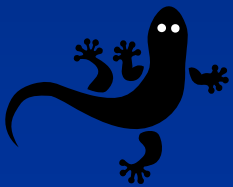
Future Opportunities





Opportunities

- Partnerships with State Wildlife Action Plans
- NRCS State Technical Advisory Committees
 - Is a local land trust on yours?
- Oregon Sustainable Agriculture Resource Center (OSARC)
 - one-stop shopping for programs, regulations, certification
 - model for other states
- 2007 Farm Bill Reauthorization

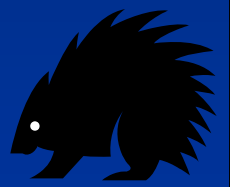
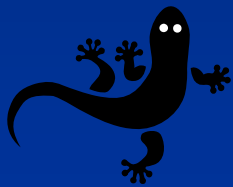




Living Lands Project: Opportunities



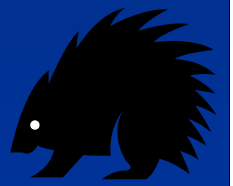
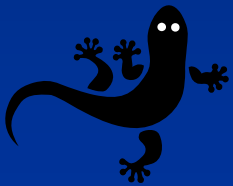
- Case studies
- Pilot projects (2007, 2008)
 - Funding
 - Assistance
- Trainings
 - Rally 2006 and 2007, Biodiversity Track
 - LTA Leadership course
- Revolving fund for up-front cost of restoration
- Other resources
 - Sample easement language
 - Sample conservation plans
 - Online resources, links





Closing Thoughts...

- Biodiversity conservation
 - Where?
 - What?
 - How?
- Biodiversity as a core concept
 - Build capacity
 - Accreditation
- Assistance and opportunities



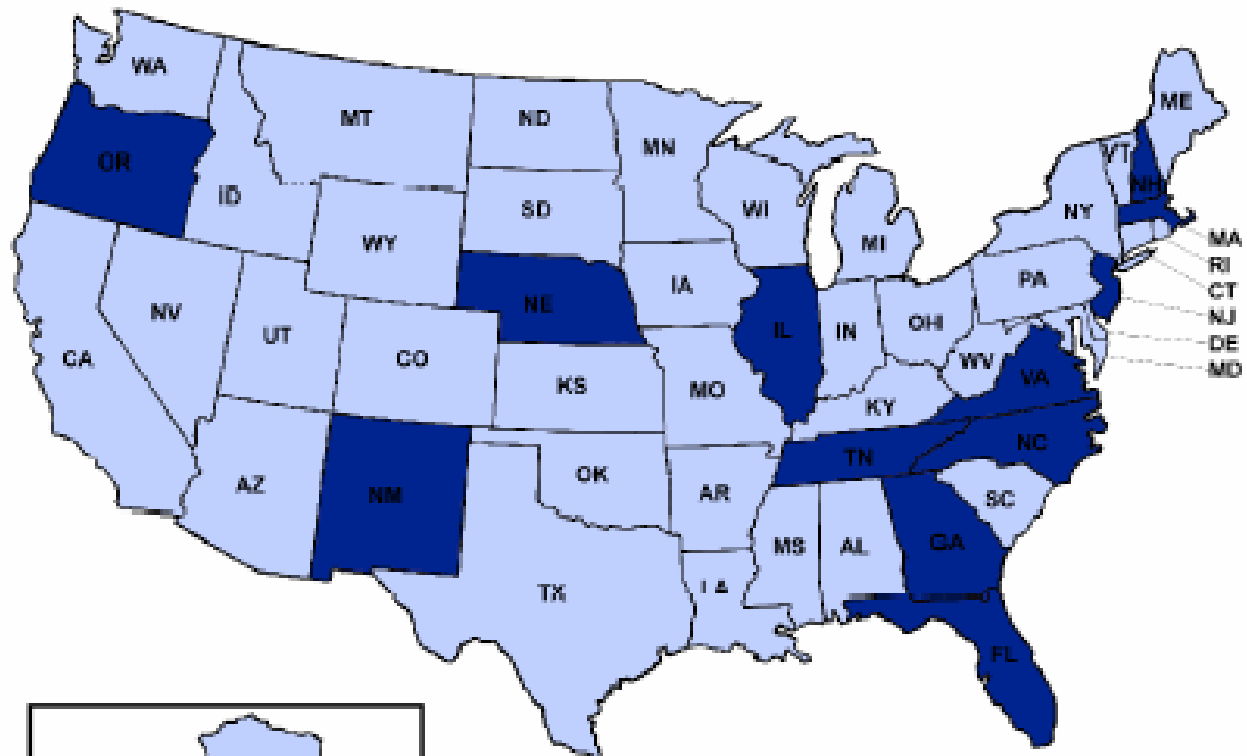
Questions?

chummon@defenders.org
www.biodiversitypartners.org



STATE WILDLIFE PLANS: STATE LEADERS

Winter 2006



- Leading states
- Other reviewed states
- Plans not reviewed

- | | |
|----------------|--------------------------|
| Puerto Rico | American Samoa |
| Virgin Islands | Northern Mariana Islands |
| Guam | |

