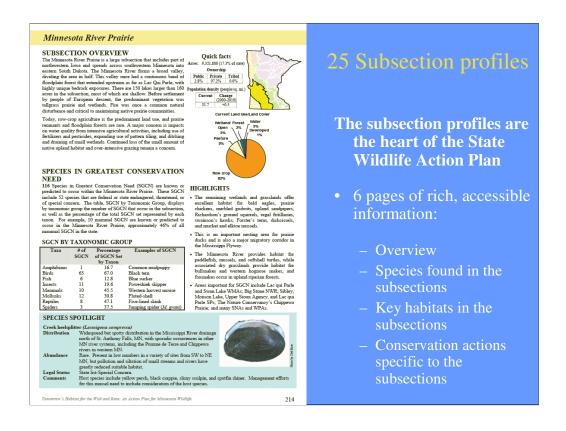
Presentation to Outdoor Heritage Council January 26, 2009 TOMORROW'S HABITAT WILD RARE AN ACTION PLAN FOR MINNESOTA WILDLIFE Minnesora's Compressive Wildlife Conservation Strategy

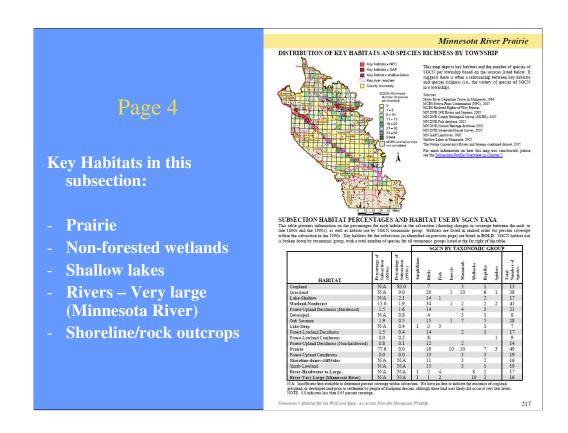
- •In 2002, Congress established the State Wildlife Grants (SWG) program to help states fund the unmet needs of wildlife.
- •In order to continue to be eligible for SWG funding, states were required to develop a comprehensive wildlife plan that considered all wildlife species and to provide a state match.
- •Collectively these plans represent an historic effort to address unmet wildlife conservation needs.
- •In Minnesota, over 100 individuals representing more than 40 organizations collaborated in the development of this strategic plan (organizations included TNC, Audubon, NRRI, USGS, USFWS, U of M, DNR).
- •Minnesota's plan was completed in September 2005 and approved by USFWS; this plan is also referred to as the State Wildlife Action Plan (SWAP).
- •Approval of the plan allowed MN to continue to participate in the program, which has provided MN about \$1.1 million/yr to implement the plan.
- •This is not just a rare species plan or nongame wildlife plan, but a comprehensive plan that cuts across all species and habitats in the state.
- •Online link to the State Wildlife Action Plan: www.mndnr.gov/cwcs



- Each state developed their own definition and list of species in greatest conservation need (SGCN).
- Minnesota's definition: Species whose populations are rare, declining, or vulnerable in Minnesota.
- Nearly 1,200 wildlife species assessed.
- 292 (almost 25%) met the definition.
- Approximately one-half of the SGCN are state-listed species.
- One goal of the SWG program is to keep additional species from reaching listed status.
- Recovery of listed species is much more costly than addressing habitat needs before a species reaches the need for listing.



- •Plan focuses on habitats rather than individual species.
- •Plan organized around the 25 ecological subsections in the state, consistent with an ecological systems and landscape level approach.
- •Analyses were conducted to determine how habitats have changes in the last 100 years and the most important or key habitats for SGCN in each subsection.
- •Combining species distribution and habitat change information, the plan identified priority conservation actions within each subsection.



- •Minnesota River Prairie Subsection key habitats: prairie, nonforested wetlands, shallow lakes, rivers, shorelines and rock outcrops.
- •Many key habitats occur on SNAs, WMAs and other protected sites and are critical to maintaining and increasing populations of SGCN and other wildlife species.
- •An example of a priority conservation action in this subsection is: use of fire and other management actions to maintain prairie.

Implementation

- Prairie and savanna
- Wetlands
- Rivers and streams
- Lowland conifer forest
- Upland conifer forest
- Lake shorelands



- •DNR is using the information from TH to help guide its work; six key habitats were identified (listed above).
- •Focusing efforts at a systems level to affect on-the-ground benefits for SGCN and other wildlife.

Examples include:

- -Restoration of the Red River Watershed dam removals and modifications, fishways, and stream channel restoration have increased fishing opportunities and enabled the reintroduction of lake sturgeon.
- -Reconnecting prairie in partnership with The Conservation Fund and the Doris Duke Charitable Foundation, DNR acquired a 218-acre Native Prairie Bank parcel to help link two parts of The Nature Conservancy's Plover Prairie Preserve, completing a corridor of protected wildlife habitat stretching from Big Stone National Wildlife Refuge in the west to the Lac Qui Parle Wildlife Management Area in the east. The entire complex, totaling more than 42,500 acres, supports SGCN such as greater prairie chicken, marbled godwit, upland sandpiper and the poweshiek skipper, a rare butterfly.

Protection, Enhancement and Restoration Potential FY10 - 13

Acquisition

Restoration/Enhancement

- Scientific and Natural ¹
 Areas
 - Prairie/ savanna restoration
 25 000 acres \$30 M
- 6000 acres \$25 M
- Forest & peatlands (SNA)
- Native Prairie Bank Easements
- 14.000 acres \$9 M
- 7000 acres \$12M
- Stream restoration
 - 21 projects \$17 M
- •Using the key habitat information from the Plan is one criterion the LOHC might use for prioritizing proposals.
- •Focusing on protecting and restoring key habitats provides broad benefits to wildlife because it promotes biodiversity and resiliency in our ecosystems.
- •Resilient and diverse ecosystems are best able to adapt to major disturbances such as climate change and invasive species.



- •Info from the plan was used in the development of the Statewide Conservation and Preservation Plan.
- •SGCN and key habitat data used by the State Conservation and Preservation Plan aquatic and terrestrial analysis groups to develop priority maps, and habitat protection recommendations.
- •Map on the right shows how information from the plan was used to help develop models of where the priority grasslands are for wetland bird species in the prairie pothole region.

Links to other plans:



 Species of Greatest Conservation Need (SGCNs) will have healthy and sustainable population levels.

trategies:

Habitat protection and restoration work should focus on key habitats of prairie, lowland hardwood forests and wetlands. Some of the region's distinctive species that will benefit include the:

American avocet Marbled godwit

Dunlin Semi-palmated sandpiper

Franklin's ground squirrel Swainson's hawk

Lesser scaup White-rumped sandpiper

Protect and establish wildlife corridors and connect existing conservation areas where possible.

Coordinate the habitat plans listed below to ensure maximum gains for habitat that benefits Species of Greatest Conservation Need.

 Info from plan used at regional Campaign for Conservation workshops which resulted in specific goals for SGCN and habitats being developed at regional levels.

Other efforts that could help the LOHC:

- Minnesota's County Biological Survey identifies sites of high and outstanding biodiversity.
- These areas often represent key habitats for SCGN and other wildlife species.

Summary Points

- 1) The plan provides information on key habitats and priority conservation actions that can help the LOHC prioritize funding recommendations.
- 2) This is a comprehensive wildlife plan representing the collaborative efforts of a diverse cross section of conservation interests.
- 3) This plan is consistent with and provided information for the Minnesota Statewide Conservation and Preservation Plan and the Campaign for Conservation's Fifty-Year Vision.

A Tool to Help Prioritize Conservation of Minnesota's Fish and Wildlife Habitat

Prairies

Key habitats for conservation investments -Native prairie & savanna

- -Working grasslands
- Protect and manage native prairie and adjacent grasslands.
- Manage invasive species
- Use prescribed fires and rotational grazing to enhance native prairie habitats
- O Prioritize acquisition and easement efforts that reconnect important





Reconnecting a Prairie: In partnership with The Conservation Fund and Doris Duke Charitable Foundation, acquired a 218-acre Native Prairie Bank Easement that links The Nature Conservancy's Plover Prairie Preserve and a habitat corridor from Big Stone National Wildlife Refuge to the Lac Qui Parle Wildlife Management Area. The entire complex, totaling more than 42,500 acres of protected land, supports greater prairie chicken, marbled godwit, Wilson's phalarope, upland sandpiper, and two rare butterfly species: the regal fritillary and poweshiek skipper.







Wetlands Waters Key habitats for conservation investments: -Shorelines & riparian areas -Key river reaches

- Enforce the Wetland Conservation Act
- Restore natural flow regimes and channel shapes
- Reconnect channels and riparian habitats
- Manage invasive species and enhance native vegetation in shoreline and wetland habitats

Reconnecting a River - Dam Removal: Removal of the East Grand Forks dam now allows upstream passage of an important fish species, lake sturgeon. Once thriving in the Red River basin, populations have suffered from spawning disruptions due to structural barriers such as dams.



Restoring Shape and

Flow – ditch conversion:

The springbrook channel

in northwestern Minnesota

was a perennial road ditch

in a flood-prone area. Res-

toration of the meandering stream provides flood protection for both the road

and fields, and provides

Enhancing Habitat in a

Shallow Lake: A 3.949-

central Minnesota, Lake

Christina is nationally

recognized as a critical

canvasbacks, and as a

staging area for migrating

acre shallow lake in west-

many other species.

important habitat for sharp-

tail grouse, wood duck and





breeding spot for many bird species, including western grebe, red-necked grebe, and Forster's tern. A whole-lake treatment was implemented in 2003 to improve the deteriorated condition characterized by poor water quality, a sparse community of submerged plants, and limited suitability for diving ducks and other wildlife species. Over 300 western grebe nests were counted in 2005, presumably responding to suitable prey fish. Lake signals were identified to help anticipate when the lake is entering a transition from a clear to a turbid water state.

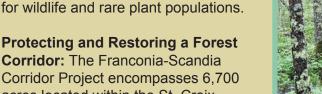
Forests

Key habitats for conservation investments

- -Upland conifer forest
- -Lowland conifer forest
- Use silvicultural practices to maintain or enhance key habitats while providing sustainable timber harvest
- Manage with a landscape level perspective to maintain a diversity of forest habitats, avoid habitat fragmentation, and address invasive
- Prioritize acquisition and easement efforts that protect key forest
- Manage forests to maintain or improve water quantity and quality

Managing a Forest System: An ecological report on the 40,000-acre Headwaters region is informing a public-private collaborative on how to manage forests at a landscape scale that incorporates biodiversity values. The site is the headwaters of four rivers: the St. Louis, the Stony, the Dunka, and South Branch Partridge. Managing this large tract of forests, fens, and waters as an integrated system will conserve the valuable fishery and protect habitat for wildlife and rare plant populations.





acres located within the St. Croix National Scenic Riverway. It contains the full range of riverway native plant communities, from floodplain forests, cliffs, seepage swamps, and prairies to pine forests. Wildlife includes Louisiana waterthrush, wood turtle, and the gilt darter, a rare fish that occurs in Minnesota only in the St. Croix River, Partners in protection and habitat restoration include: Franconia Township, City of Scandia, Chisago and Washington counties, Trust for Public Land, MN Land Trust, St. Croix River Association, St. Croix Scenic Coalition St. Croix Conservation Collaborative, Audubon Society, Sierra Club, Great River Greening, Carnelian Marine Watershed District, and the National Park Service.





