

# A Strategic Conservation Agenda 2003–2007 Measuring Progress Toward Mission

### Minnesota Department of Natural Resources Fact sheet: Conservation Indicators and Integrated Management

The *Conservation Agenda* includes over 75 interlinked indicators and conservation targets. Together they will help us measure progress as we work with partners to accomplish our mission.

#### The Big Picture

What can we do to ensure that Minnesota's rich natural resources remain healthy and abundant for future generations? *A Strategic Conservation Agenda 2003-2007* outlines specific, measurable outcomes and actions that will allow us to enjoy the benefits of our natural resources today while protecting them for tomorrow.

To help manage for multiple outcomes, we've grouped over 75 specific indicators and targets into six performance areas: Natural Lands, Fisheries and Wildlife, Waters and Watersheds, Forests, Outdoor Recreation, and Natural Resources Education. But as we address them, remember that nature is not so easily pigeonholed. The indicators and targets are interlinked, both within and among performance areas. Working to achieve one without considering the others makes about as much sense as taking a fishing trip with bait and a boat but no hook, line, or reel. Each is interconnected and reliant on others for successful conservation.

#### **Integrated Management**

Pursuing multiple conservation objectives requires integrated resource management. That means our efforts must interact and reinforce each other, just as natural resources do. In the case of the *Conservation Agenda* it means addressing indicators together, rather than independently, and recognizing the trade-offs and connections among them. And it means working with partners to accomplish our mission.

In some cases, progress in one area means progress in another. For example, efforts that seek to meet our target of no-net-loss of wetlands can help us meet targets related to duck harvest, flood damage reduction, and frog and toad populations.

In other cases, progress in one area may conflict with another area. For example, enhancing opportunities for motorized recreation can impact silent sports. Either way, integrated resource management means paying attention to how management activities intended to achieve specific targets also affect other conservation values.

(over)



A Strategic Conservation Agenda 2003-2007 is available in full text on the DNR web site at:

### www.dnr.state.mn.us/conservationagenda/index.html

DNR's Strategic Conservation Agenda is updated periodically. A new update will be posted on the DNR web site in February 2005.

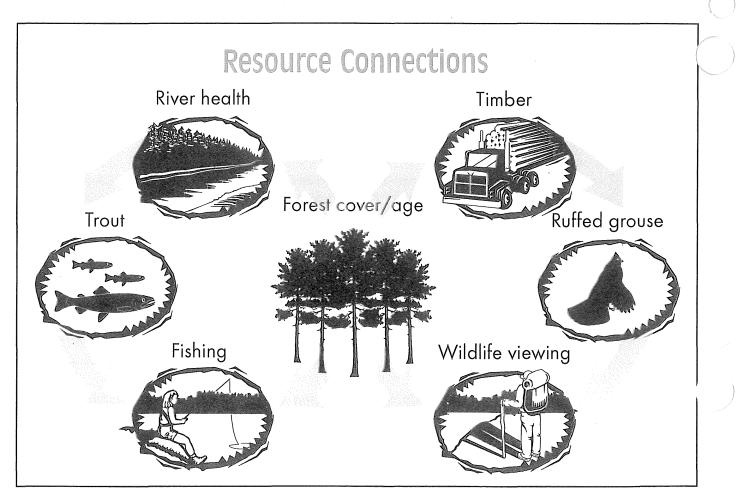
#### **Seeing Connections**

Consider the *Conservation Agenda's* Forests section. Several indicators address key forest attributes such as extent, age, and type. These indicators directly influence not only the type and quantity of timber available for harvest (and hence the economic health of the forest products industry) but also affect goals in the agenda's other performance areas. For example:

- The Conservation Agenda's wildlife targets include increasing the average annual grouse harvest to 650,000 birds. Grouse rely on aspen, one of the first tree species to grow after a major disturbance, such as timber harvest. By harvest appropriately, we can meet the timber target and simultaneously ensure adequate habitat for ruffed grouse.
- A variety of animals, including lynx, fishers, pine martens, and northern goshawks, need forests that include large patches of mature trees. Thus, the Conservation Agenda's target for maintaining old-growth forest and extended rotation forests can also contribute to achieving the target of fewer species moved to endangered status.
- Forests help keep water clean by regulating overland and subsurface flows. Thus, targets for maintaining and increasing forest cover are strongly linked to water-quality targets. For example, enrolling private forestlands in forest stewardship plans helps enhance water quality by helping to protect watersheds.

#### Interlinked Resources, Integrated Solutions

The bottom line is that none of the Conservation Agenda's targets can be pursued—or achieved—in a vacuum. As we make progress toward one, we will, intentionally or not, influence progress toward others. The challenge—and, ultimately, the reward—will lie in seeing and embracing the links and anticipating and minimizing negative impacts as we work with partners and fulfill our mission "to work with citizens to conserve and manage the state's natural resources, to provide outdoor recreation opportunities, and to provide for commercial uses of natural resources in a way that creates a sustainable quality of life."



Our natural resources are interconnected. Improving resource conservation indicators in one performance area affects indicators in other areas as well.

## **Department of Natural Resources**

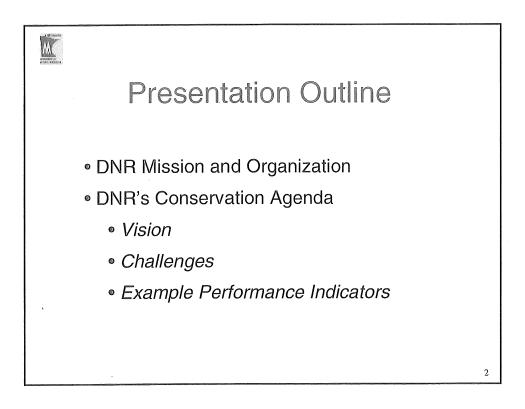
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Conservation Agenda

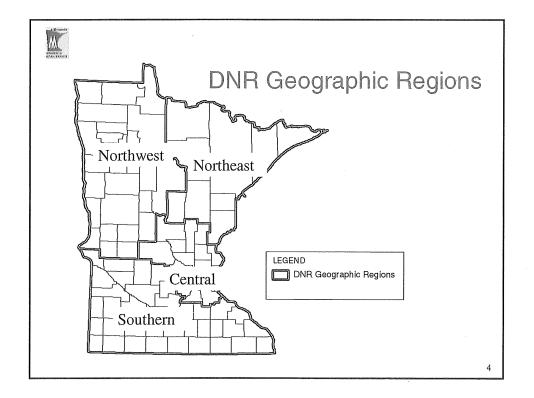
Measuring Progress Toward Results

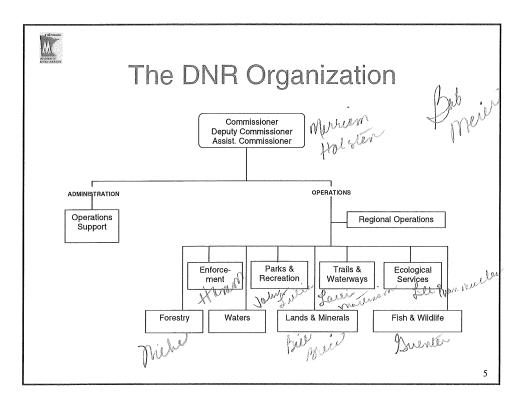
Gene Merriam, Commissioner

Senate Environment and Natural Resources Policy Committee January 26, 2005

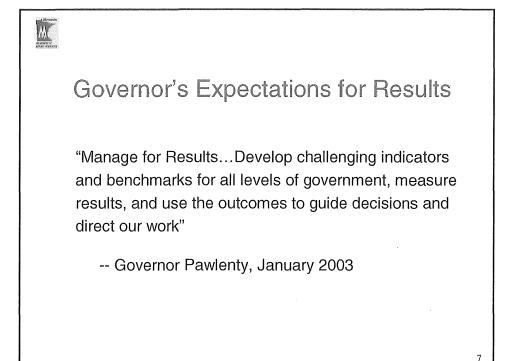


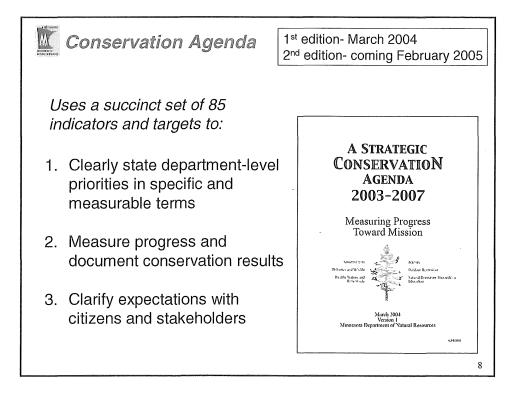


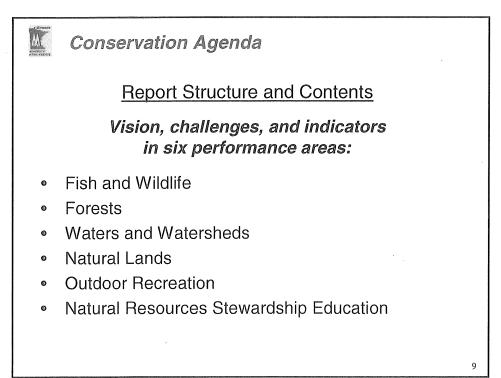


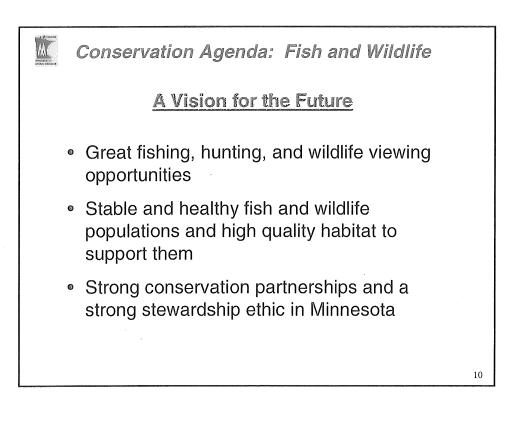


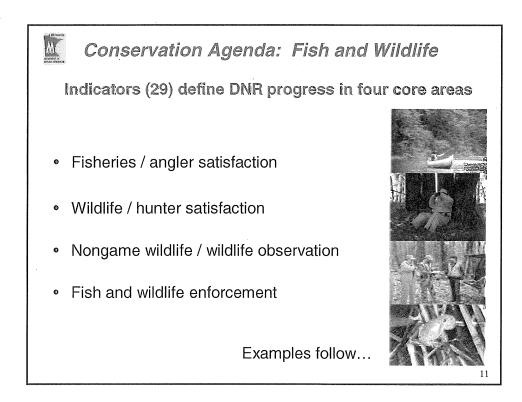


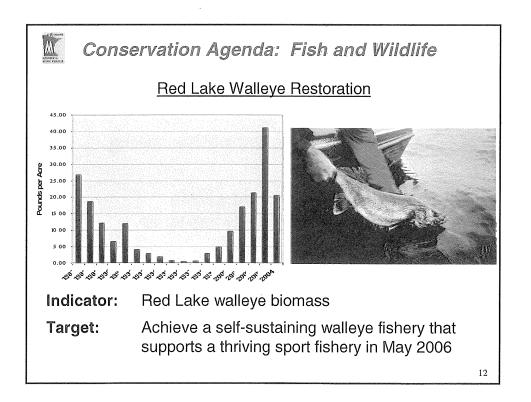


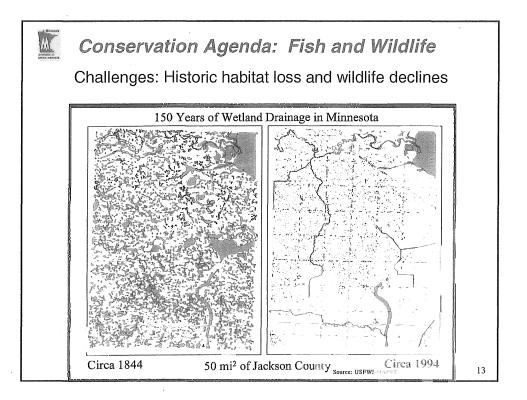


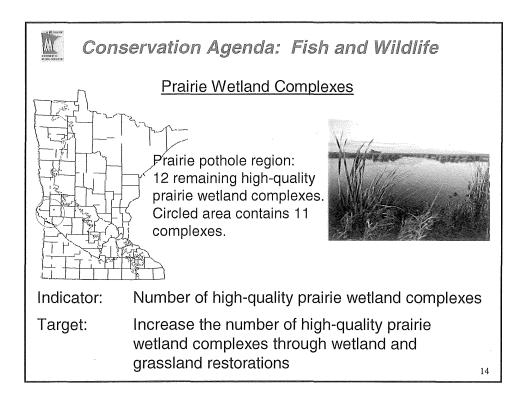


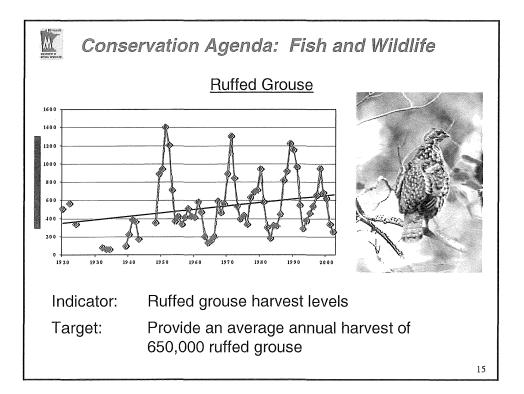


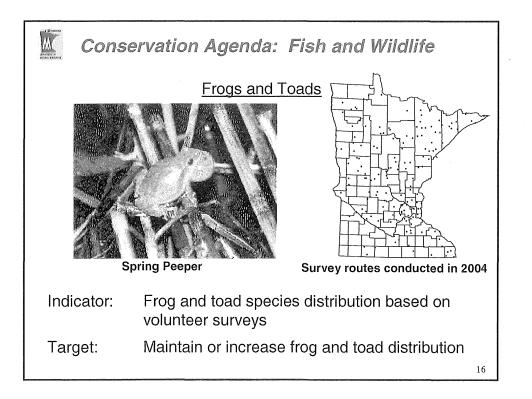














#### A substantial and protected forest

- As much, or more, forests than we have today
- People and property protected from wildfire harm

#### A healthy and resilient forest

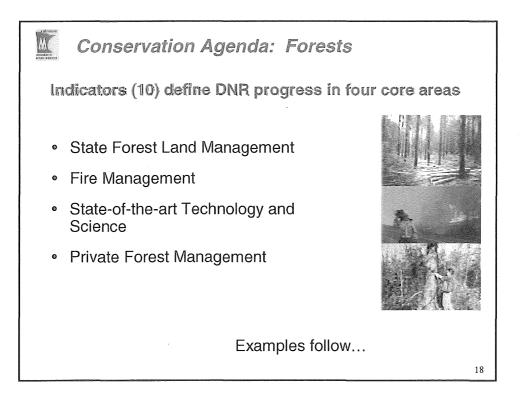
- · Includes young-, middle-, and old-aged forests
- More diverse mix of tree species and habitats

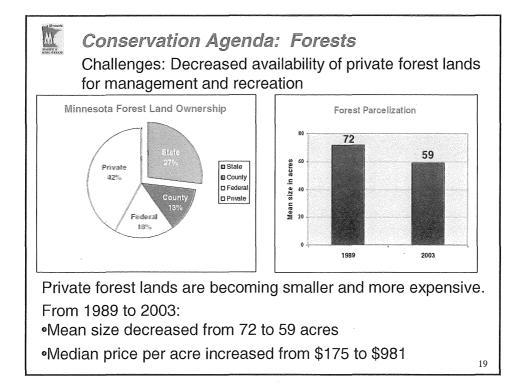
#### A sustainably managed forest

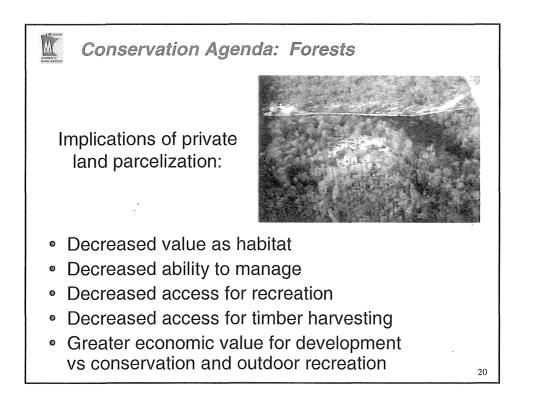
- · Recreational opportunities are many and varied
- · Forest-based industries are healthy and stable

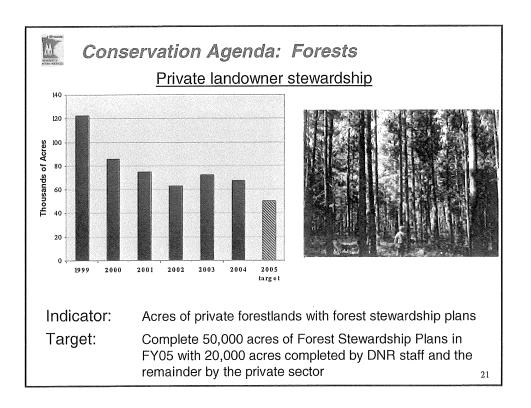


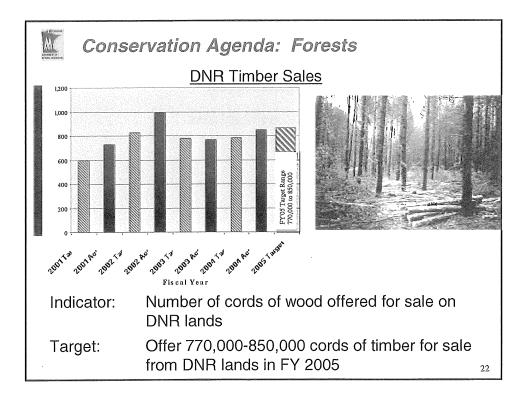


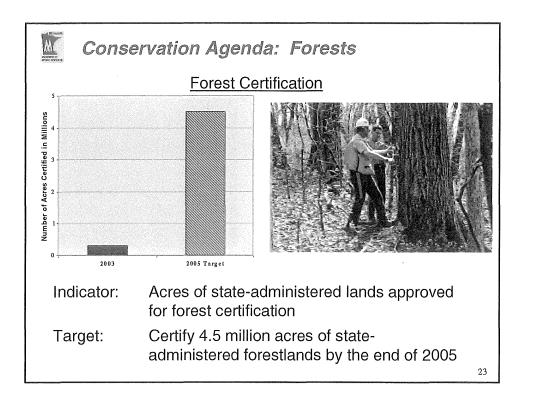






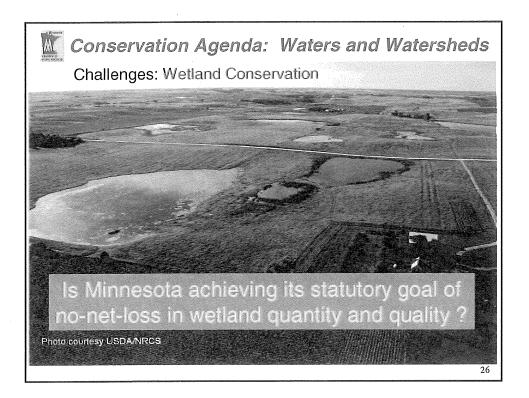


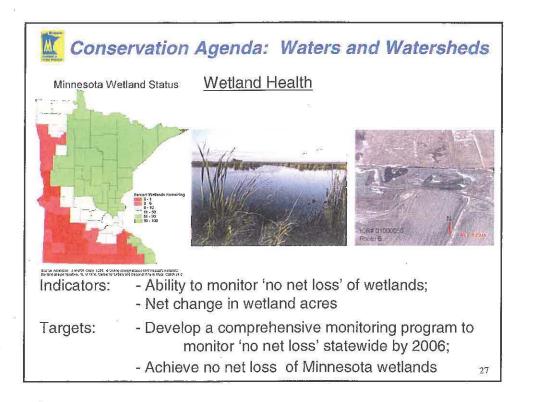


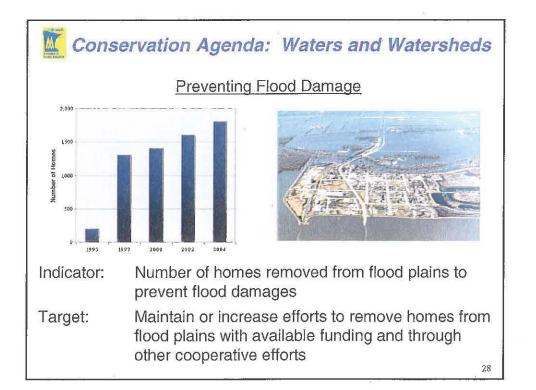


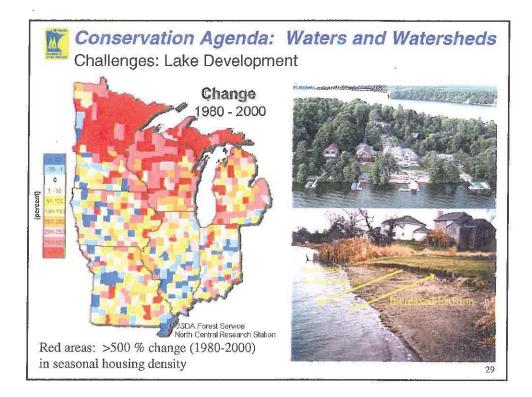


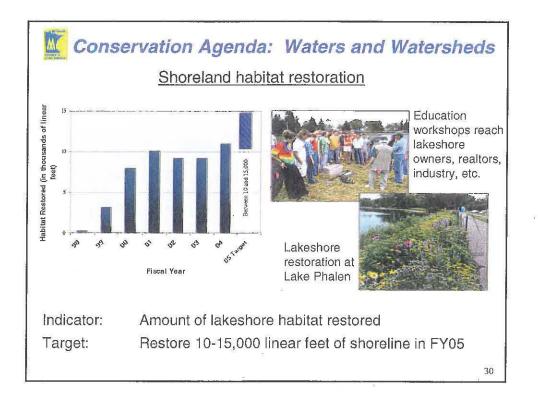
#### M Conservation Agenda: Waters and Watersheds Indicators (16) define DNR progress in six core areas Managed & protected water supplies 0 Flood damage reduction 0 Wetlands conservation ø River and stream conservation 0 Lakes conservation ø Limited spread of harmful, invasive ø exotic species Examples follow ....

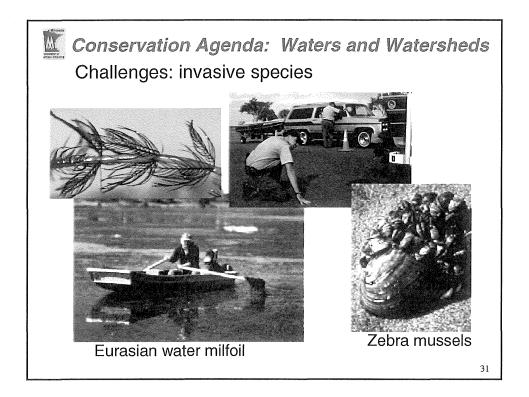


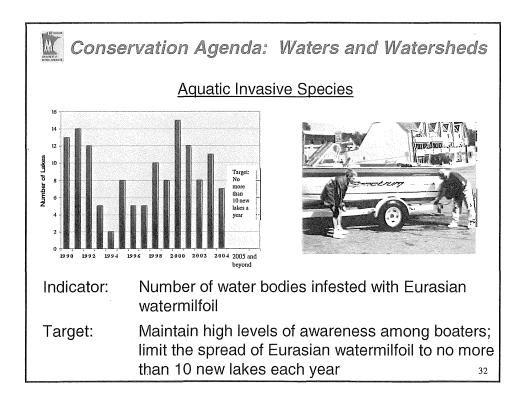


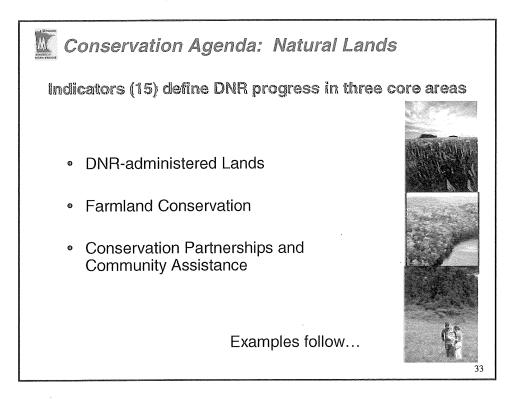


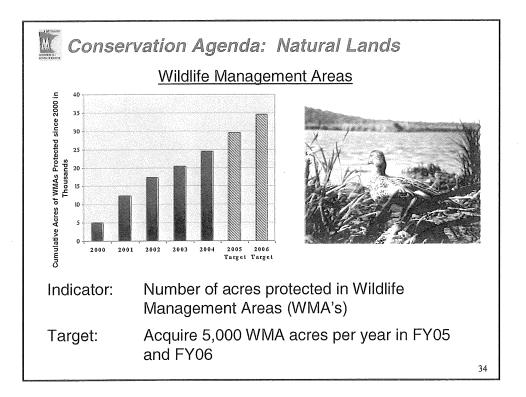


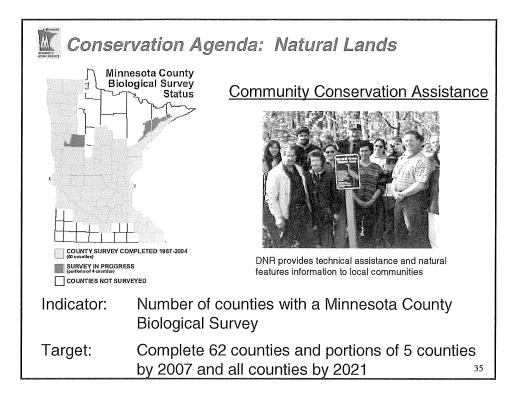


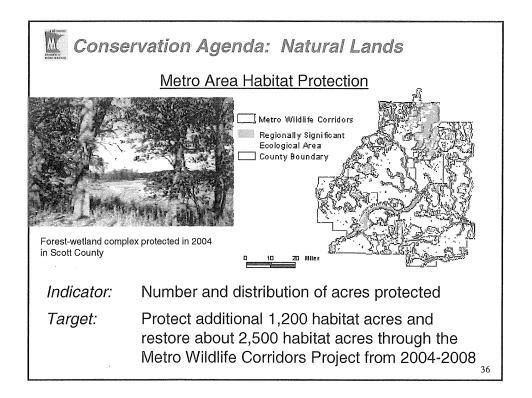


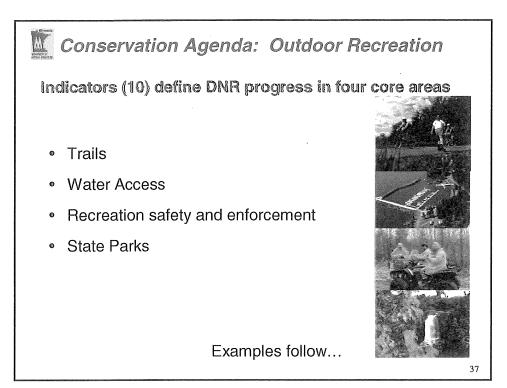


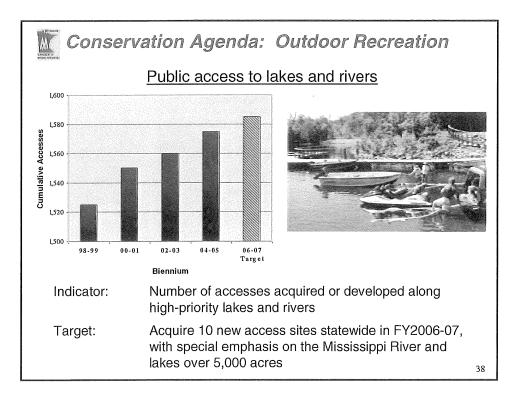


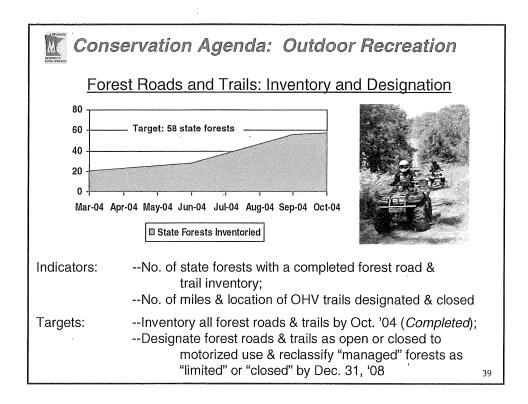


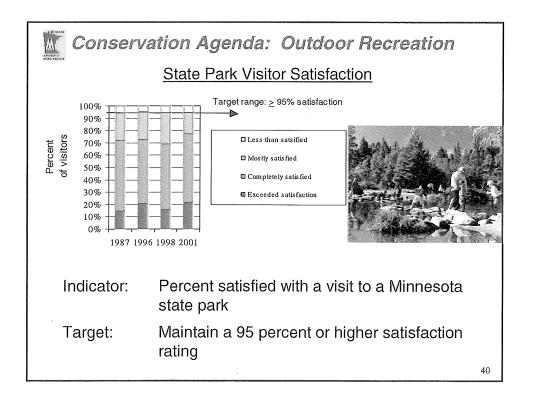


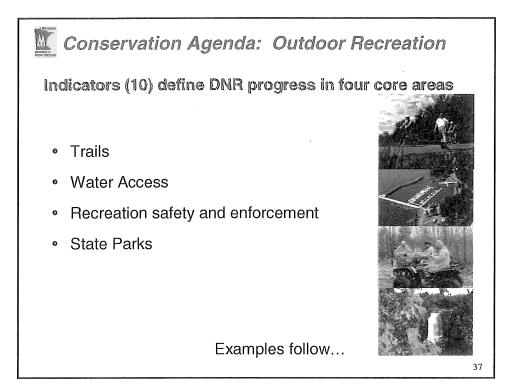


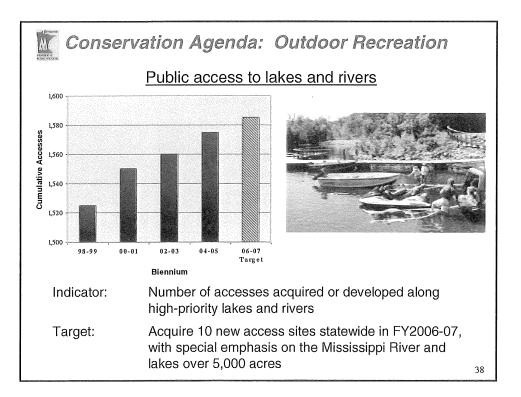


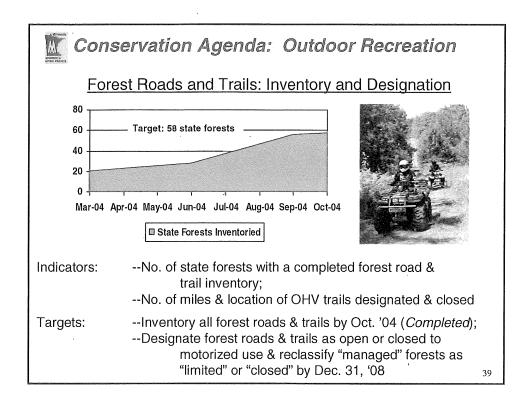


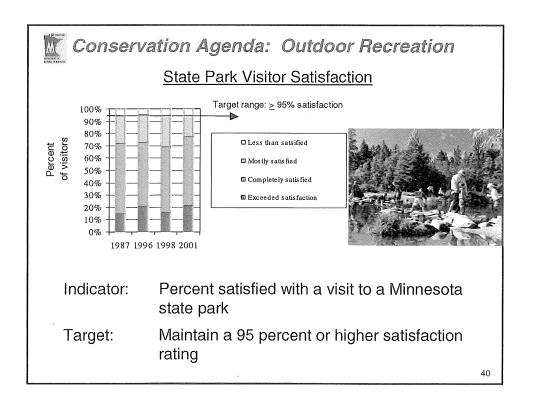


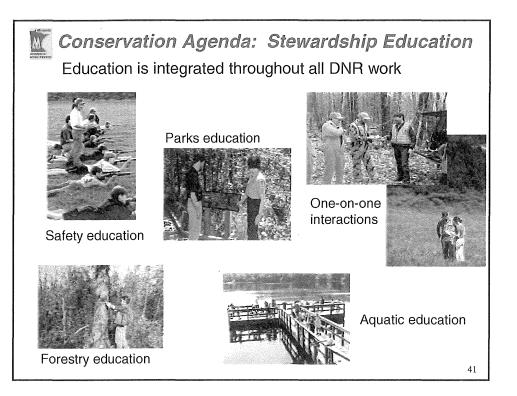


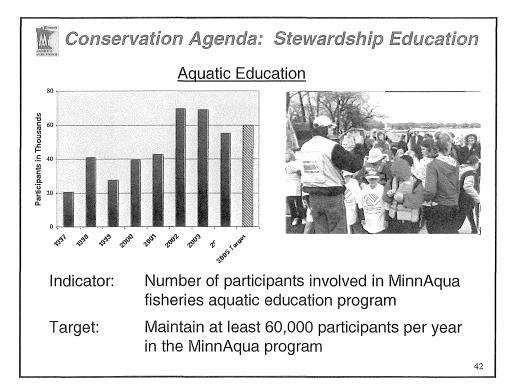


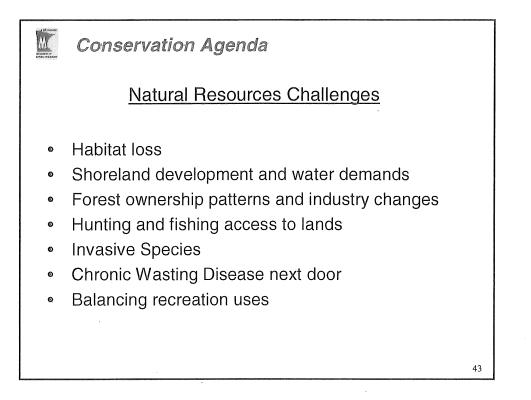


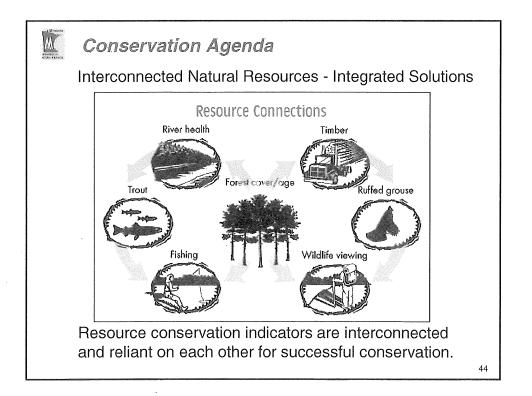


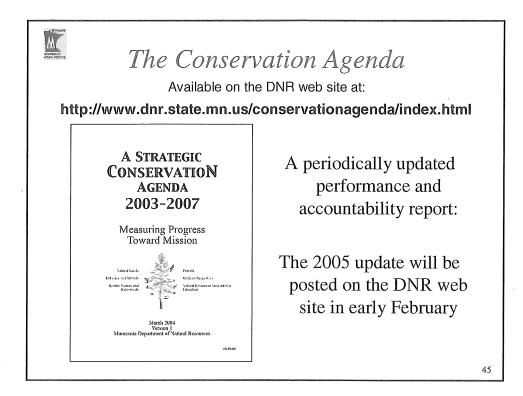












#### 2003 Minn. Laws, Ch. 128, Art.1, Sec. 167

#3

Sec. 167. [FOREST LAND OFF-HIGHWAY VEHICLE USE RECLASSIFICATION.]

<u>Subdivision 1.</u> [FOREST CLASSIFICATION STATUS REVIEW.] (a) By December 31, 2006, the commissioner of natural resources shall complete a review of the forest classification status of all state forests classified as managed, all forest lands under the authority of the commissioner as defined in Minnesota Statutes, section 89.001, subdivision 13, and lands managed by the commissioner under Minnesota Statutes, section 282.011. The review must be conducted on a forest-by-forest and area-by-area basis in accordance with the process and criteria under Minnesota Rules, part 6100.1950. After each forest is reviewed, the commissioner must change its status to limited or closed, and must provide a similar status for each of the other areas subject to review under this section after each individual review is completed.

(b) If the commissioner determines on January 1, 2005, that the review required under this section cannot be completed by December 31, 2006, the completion date for the review shall be extended to December 31, 2008. By January 15, 2005, the commissioner shall report to the chairs of the legislative committees with jurisdiction over natural resources policy and finance regarding the status of the process required by this section.

(c) Until December 31, 2010, the state forests and areas subject to review under this section are exempt from Minnesota Statutes, section 84.777, unless an individual forest or area has been classified as limited or closed.

<u>Subd. 2.</u> [TEMPORARY SUSPENSION OF ENVIRONMENTAL REVIEW.] The requirements for environmental review under Minnesota Statutes, section 116D.04, and rules of the environmental quality board are temporarily suspended for each reclassification and trail designation made under subdivision 1 until the commissioner has met all requirements under subdivision 1, or December 31, 2008, if the commissioner has failed to complete those requirements as required by law.

Subd. 3. [RULEMAKING.] By January 1, 2005, the environmental quality board shall adopt rules providing for threshold levels for environmental review for recreational trails.

[EFFECTIVE DATE.] This section is effective the day following final enactment.

20 Jan. 05

# Forest Classification and Road/Trail Designation Schedule – Subject to Change (All forest reclassification and road/trail designations completed by Dec. 31, 2008)

Planning Unit	Acres	Area FOR / TAW Supv.	Kick-Off	То	То	Public	Effective	DNR
(State Forests / Scattered State & Co. Lands)	(DNR ADMIN)	[Planner]	Date	RMT	OHVPC	Notice	Date (If completed)	Region
Foot Hills & surrounding State/County land	18,713+	Chapman / Jaeger [Olson]	[D1] 08/20/03	[D1+6 mo] 10/20/03	[D1+8 mo] 01/07/04	[D1+12 mo] 02/02/04	(ii completeo)	1
Pillsbury	8,773+	Simar / Jaeger [Olson]	08/21/03	12/15/03	01/07/04	02/02/04		1
Chengwatana	17,325		00/21/00	12/10/00	01/01/04	02/02/04		I
General CC Andrews	5,826	Dunkley / Arends	08/20/03	12/15/03	01/15/04	02/02/04		3
Nemadji	93,387	[Johnson]	00/20/00	12/10/00	01/10/04			Ŭ
St. Croix	28,432							
Fond du Lac	40,874	Grindy / Arends	10/23/03	03/15/04	04/21/04	08/16/04	·····	2
Whiteface River	2,464	[Weseloh]			0			_
Solana	57,567	Lane / Moore	10/08/03	01/20/04	03/10/04	08/23/04		2
Wealthwood	4,666	[Olson]						
Beltrami Island	254,293	Long / Broten	01/15/04	06/07/04	08/20/04	11/08/04		1
		[Cozzetto]						
Paul Bunyan	60,470	Carlstrom / Kimball						
Badoura	4,570	[Cozzetto]	09/15/03	02/15/04	10/28/04	11/08/04		1
Scattered lands in Hubbard County								
Rum River	17,036	Sanow / Schroeder						
Snake River	7,962	Dunkley / Arends	05/26/04	11/01/04	01/15/05	05/01/05		3
Scattered lands in Mille Lacs/Kanabec Counties.		[Pending]						
Birch Lakes (closed)	554	Sanow / Schroeder	No planned	No planned	No planned	No planned		
Sand Dunes (closed)	6,164	Nelson / Schroeder	review	review	review	review		3
Scattered lands in remaining Reg. 3 Counties		[Pending]						
Crow Wing	6,182	Simar / Jaeger						
Emily	<sup>~</sup> 640	[Weseloh]	06/30/04	03/01/05	04/15/05	06/01/05		1
Scattered lands in Crow Wing County								
Sturgeon River	62,499	Olson / Kelling [Weseloh]	09/17/04	03/15/05	04/15/05	06/01/05		2
Red Lake	58,309	Rabe / Broten						
Buena Vista	18,481	Christensen / Kimball	04/15/05	08/15/05	10/15/05	02/15/06		1
Mississippi Headwaters	8,800	Christensen / Kimball						
Scattered lands in southern Beltrami County		[Olson>Cozzetto]						
DAR	364	Dunkley / Arends						3
Scattered lands in Pine County		[Pending]	08/15/04	02/01/05	04/15/05	08/01/05		
Scattered lands in Carlton County	8,500	Grindy /Arends						2
Cloquet Valley	39,214	Grindy / Peterson	01/26/05	07/26/05	09/26/05	01/26/06		2
Scattered lands in So. St. Louis Co. [55+Twnshps]	75,823	[Weseloh]	<u> </u>	L			l	

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Planning Unit (State Forests / Scattered State & Co. Lands)	Acres (DNR ADMIN)	Area FOR / TAW Supv.	Kick-Off Date	To RMT	To OHVPC	Public Notice	Effective Date	DNR
(State Polests / Scattered State & Co. Lands)		[Planner]	Date [D1]	[D1+6 mo]	[D1+8 mo]	[D1+12 mo]	(If completed)	Region
Lost River	51,062	Long / Broten	12/10/04	06/01/05	- 08/15/05	12/01/05		1
Scattered lands in Roseau County		[Cozzetto]						
Golden Anniversary	1,851	Rupert / Moore						
George Washington	96,132	[Weseloh]	02/15/05	08/01/05	10/15/05	02/01/06		2
Surrounding scattered lands in E. Itasca County	34,000					-		
Pat Bayle	38,710	· · · · · · · · · · · · · · · · · · ·	· · · · ·					
Grand Portage	40,931	Rowlett / Peterson	05/15/05	11/01/05	01/15/06	05/01/06		2
Finland	97,881	[Weseloh]						
Scattered lands in Cook & Lake Counties								
Land o' Lakes	29,343	Chapman / Jaeger						
Remer	2,469	Rupert / Jaeger	06/15/05	01/01/06	03/15/06	07/01/06		1
Scattered lands in southern Cass Co.		[Olson]						
White Earth	42,303	Christenson / Kimball	06/15/05	01/01/06	03/15/06	07/01/06		1
Scattered lands in Clearwater County		[Cozzetto]	-					
Smokey Bear	11,658		M. Marine 2010, 1 11 1011					
Koochiching	318,150	Julson / Johnson	08/15/05	02/01/06	04/15/06	08/01/06		2
Pine Island	607,743	[Weseloh]						
Scattered lands in Koochiching County								
Smoky Hills	14,915	Carlstrom / Kimball						
Two Inlets	13,889	[Olson]	11/15/05	05/01/06	07/15/06	11/01/06		1
Scattered lands in Becker County								
Lake Jeanette	1,357	Stegmeir / Kelling			· · ·			
Kabetogama	156,541	[Weseloh]	11/15/05	05/01/06	07/15/06	11/01/06		2
Scattered lands in NW St. Louis County						· .		
Hill River	68,898							
Savanna	124,226	Lane / Moore	02/15/06	08/01/06	10/15/06	02/01/07		2 ·
Waukenabo	15,549	[Weseloh]			4 N			
Scattered lands in Aitkin County								
Burntside	24,293	Magnuson / Kelling						
Bear Island	24,943	[Weseloh]	05/15/06	11/01/06	01/15/07	05/01/07		. 2
Scattered lands - NE St. Louis Co. [60+ Twnshp]	149,480					- -		
Battleground	9,599	Mathweg / Kimball			-			
Welsh Lake	6,208	[Cozzetto]	06/15/06	12/01/06	02/15/07	06/01/07		1
Scattered lands in northern Cass County			· · · ·					
Huntersville	15,363	Carlstrom / Jaeger						
Lyons	6,510	[Olson]	06/15/06	12/01/06	02/15/07	06/01/07		1
Scattered lands in Wadena County								

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#### 20 Jan. 05

Planning Unit (State Forests / Scattered State & Co. Lands)	Acres (DNR ADMIN)	Area FOR / TAW Supv. [Planner]	Kick-Off Date [D1]	To RMT [D1+6 mo]	To OHVPC [D1+8 mo]	Public Notice [D1+12 mo]	Effective Date (If completed)	DNR Region
Lake Isabella (closed)	640	Rowlett / Peterson	No planned	No planned	No planned	No planned		2
Insula Lake (closed)	640	[Weseloh]	review	review	review	review		
Lake of the Woods	140,096	Thomas / Broten						· .
Northwest Angle	14,461	Long / Broten	06/15/06	12/01/06	02/15/07	06/01/07		1
Scattered lands in Lake of the Woods Co.		[Cozzetto]						
Misc. scattered lands (Counties w/o state forests)		Various - [Cozzetto]	06/15/06	12/01/06	02/15/07	06/01/07		1
Blackduck	41,268	Rabe / Moore						
Bowstring	115,878	Rupert / Moore	08/15/06	02/01/07	04/15/07	08/01/07		2
Big Fork	45,171	Scmidt / Moore		а. 				
Scattered lands in western Itasca County		[Weseloh]		4				
R J Dorer Memorial Hardwood Forest	73,227	Helbig / Wagar	01/15/07	06/01/07	08/15/07	12/01/07		4
Scattered lands in Region 4		[Pending]						

#### Notes:

1. Acres listed are from the 3/1/04 State Forest Road/Trail Inventory report, using the 'State Acres' figure. Scattered lands acreages are not listed because inventory responsibility is based upon DNR Forestry Administrative Area boundaries, and not on county boundaries.

2. The planning units (forests and scattered lands) are based upon information submitted by DNR Regional Staff, as modified by the OHV Project Implementation Team on 4/23/04.

3. All dates assume that the effort will wrap-up by no later than December 31, 2008, as per ML 2003, Ch. 128, Article 1, Section 167.

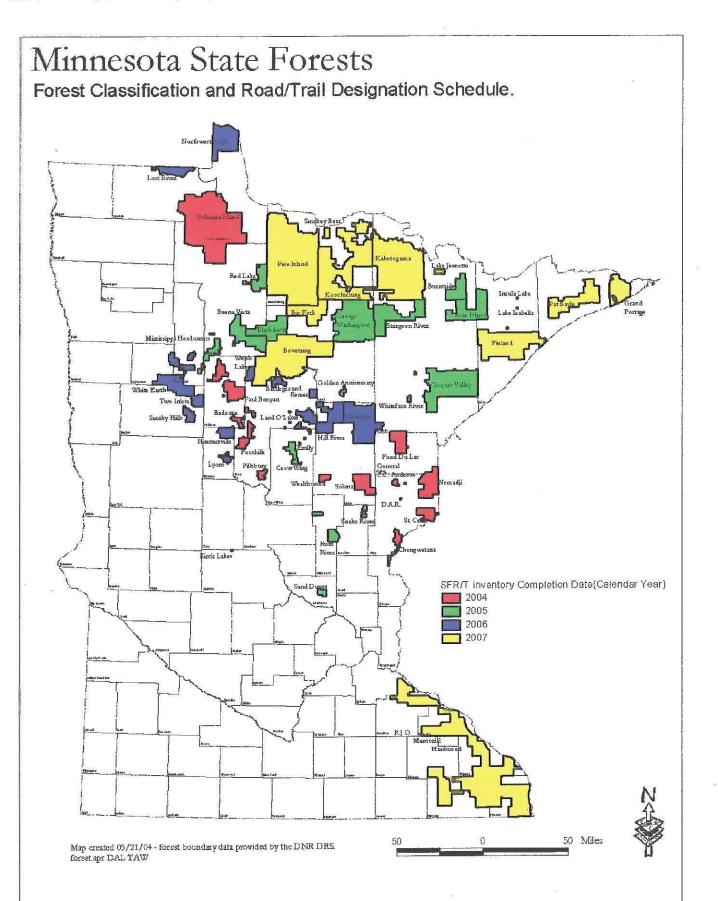
4. Definitions: D1 = Beginning or Kick-Off Date; DNR = MN Dept of Natural Resources; FOR = Division of Forestry; Kick-Off = The start date for DNR Area Teams; OHVPC = Off-Highway Vehicle Policy Committee; RMT = Regional Management Team; TAW = Trails & Waterways Division;

MN DNR, Trails & Waterways Desig08.Doc

#### Inventory of State Forest Roads and Motorized and Non-Motorized Trails

In October 2004 the DNR completed an inventory of all state forest roads and access routes, including designated off-highway vehicle routes and all motorized and non-motorized trails. The inventory was conducted on all state, county, and federal lands within the boundaries of the state forests. The total acreage inventoried was 5.7 million The effort was conducted over a 14 month period by nearly 200 employees of the Department of Natural Resources and the Minnesota Conservation Corps. Existing data was used to the extent possible. Approximately 62,300 hours of effort and \$2.3 million were expended to acquire new field data in forests where information was lacking. The results of the inventory are illustrated in the following table:

	•	
Miles of	Miles of	Total Miles of
<b>Roads and</b>	Roads and	Roads and
<b>Trails Inside</b>	Trails	Trails
State Forest	Outside	
Statutory	<b>State Forest</b>	
Boundaries	Statutory	· .
	Boundaries	
6,333	1,378	7,711
3,183		3,183
250		250
9,766	1,378	11,144
	Roads and Trails Inside State Forest Statutory Boundaries 6,333 3,183 250	Roads and Trails Inside State Forest BoundariesRoads and TrailsState Forest BoundariesOutside State Forest Statutory Boundaries6,3331,3783,183250



### Minnesota Department of Natural Resources

# **BEOCEVAN** INAVZIAE ZECIEZ

Luke Skinner Invasive Species Program Minnesota Dept. of Natural Resources



### Definition

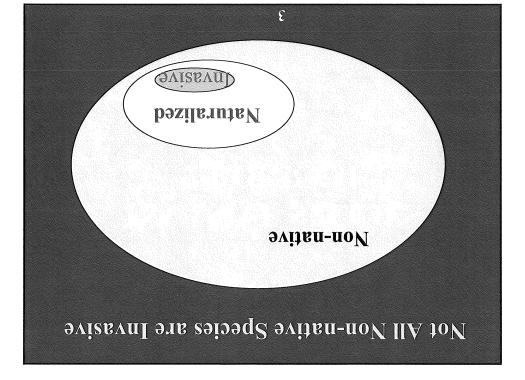
"Invasive species" means a non-native species that can naturalize and:

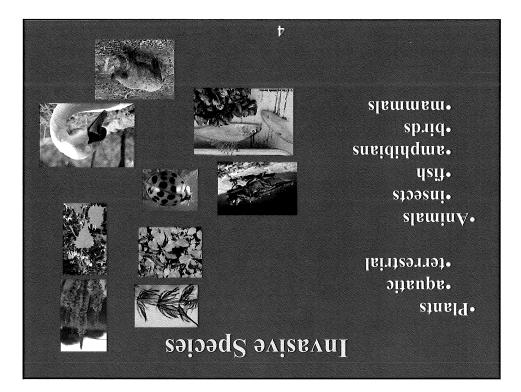
 causes or may cause economic or environmental harm or harm to human health; or

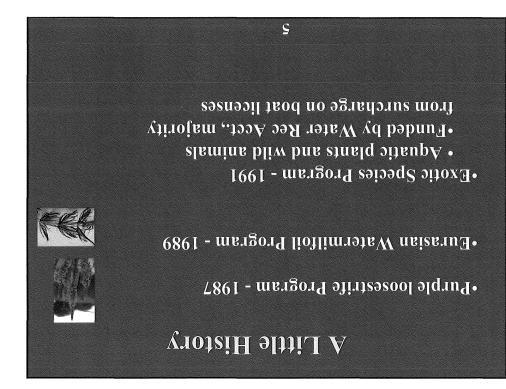
 threatens or may threaten natural resources or the use of natural resources in the state.

7

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### Program Goals

- 1. Prevent introductions of new invasive species into Minnesota
- 2. Prevent the spread of invasive species within Minnesota
- 3. Reduce the impacts caused by invasive species to Minnesota's ecology, society, and economy



#### Movement of aquatic plants through the Horticultural Trade

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#### Risk Assessment:

Asian Carp

•Orders placed to 34 aquatic plant vendors nationwide

•Federal and State prohibited species were acquired 92% of the time

•93% orders had species not specifically requested

Prohibited species

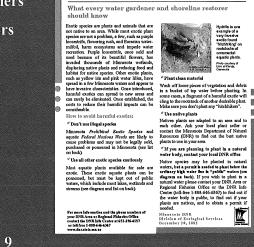
(Maki and Galatowitsch, 2004)



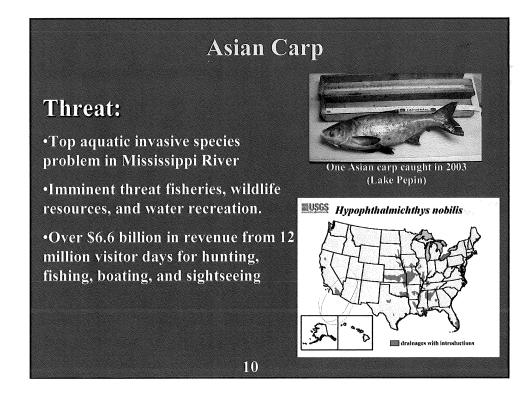
#### **Actions:**

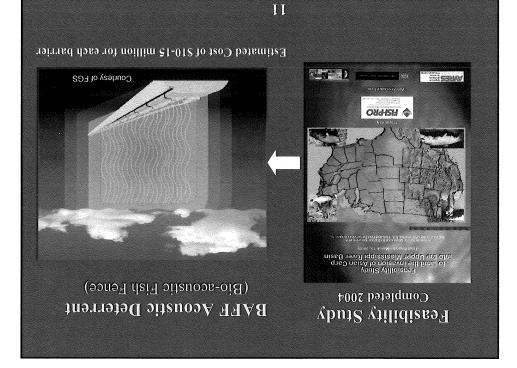
•Target industry and consumers

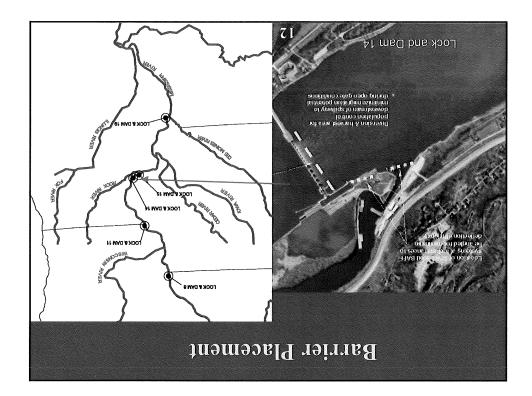
- •Nurseries and distributors
- •Water gardeners
- •Education campaign
  - •Laws and consequences
  - •Alternatives

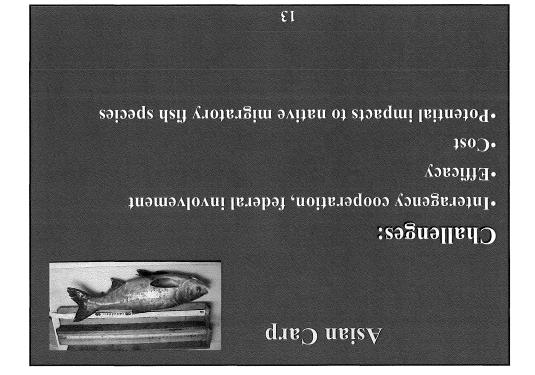


Harmful Exotic Aquatic Plants



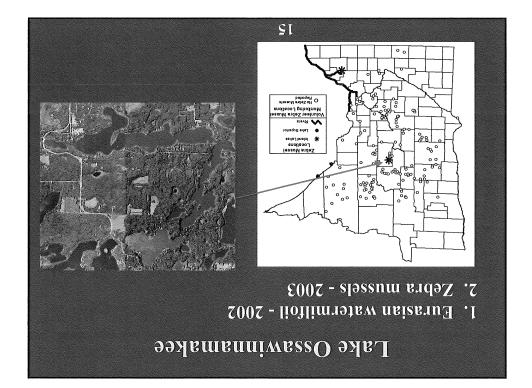


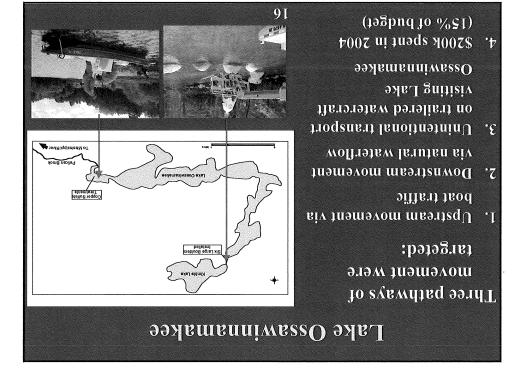


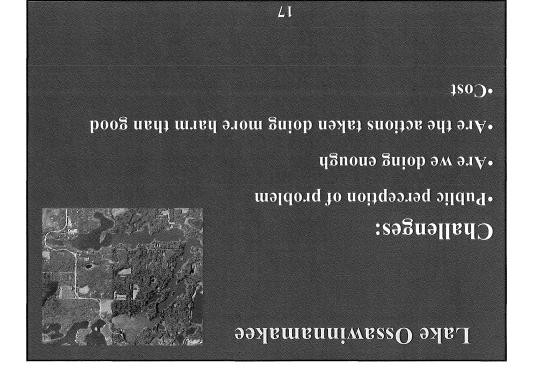


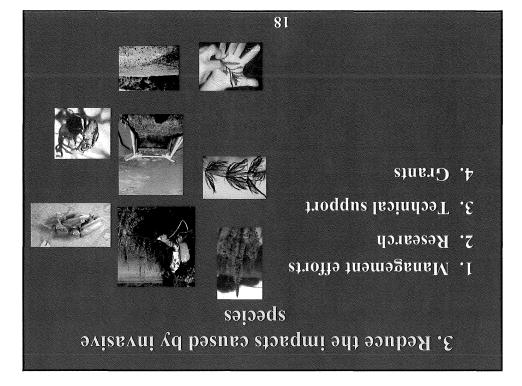
## 2. Prevent the spread of invasive species within Minnesota

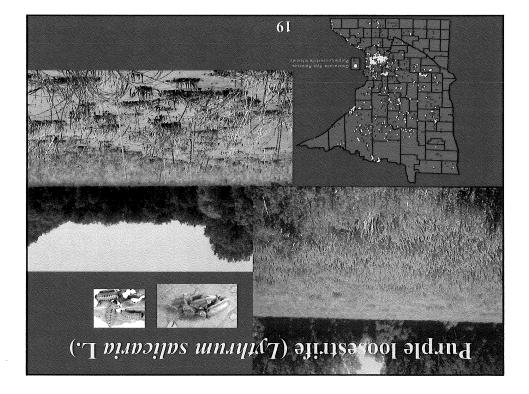
- I. Watercraft Inspection Program
- 20,000 hours of Inspection each year
- More than 50,000 watercraft inspected
- 2. Enforcement
- 3. Special Projects
- Lake Ossawinnamakee





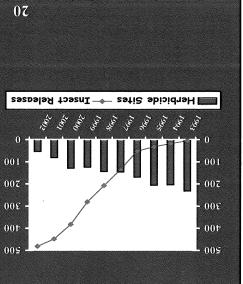


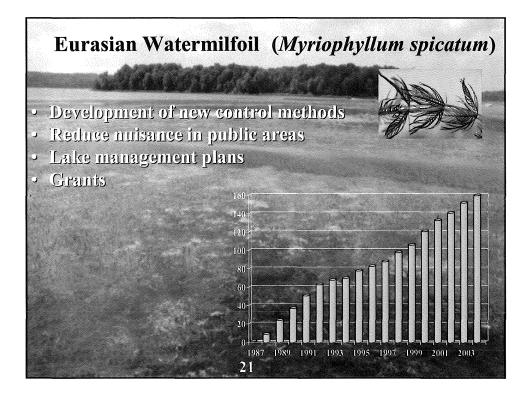


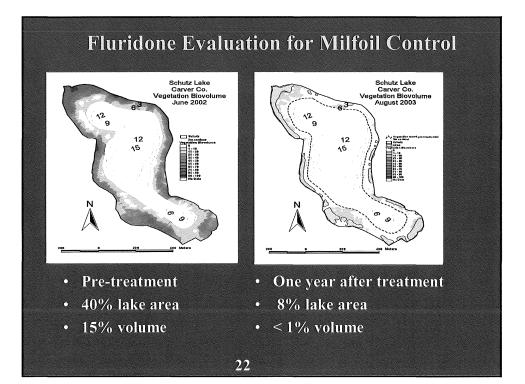


# Purple Loosestrife – Benefits to MN

(\$)	Herbicide (gal)	Year
\$105,000	127	6861
006'22\$	eteb oN	1661
200 <sup>°</sup> 99\$	84	1663
863'000	32	9661
836'000	L	2661
826'000	9'6	6661
002'61\$	Ļ	1002
008'81\$	5.3	2002
008'8\$	8.0	2003









# Ju9m9geneM

## Challenges:

·Conflicting interests

Are the actions taken doing more harm than good
 Should established invasive plants be treated like native aquatic plant in regards to aquatic plant control

## Terrestrial Invasive Species

MN DNR manages ~5.2 million acres or 95% of all the state-owned lands.

Divisions are independently developing management information and tools, carrying out management efforts, and responding to the public

Goal: To improve or enhance DNR's ability to effectively manage terrestrial invasive plants.

57

## Terrestrial Invasive Species

- Heritage Enhancement funding used in 2003
  and 2004 to establish a program
- Coordinate inventories of invasive species
- Gather, maintain, and share knowledge of
  management practices
- Evaluate and improve current management
- Development of new control methods (i.e.
- Develop BMP's to prevent movement due
- to commercial and recreational uses



## Development of Biological Control

C. scrobicollis

87

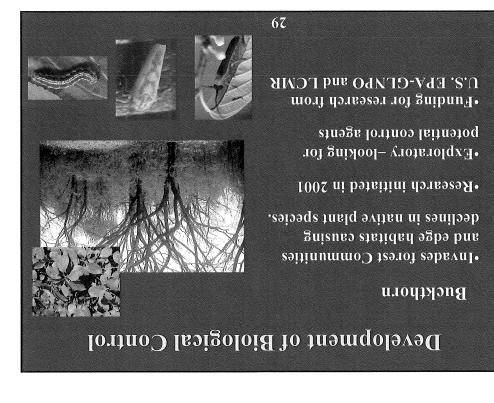
#### Garlie mustard

 Invades forest Communities and edge habitats causing declines in native plant species.

•3 insect species being studied
 as potential control agents.

•Funding for research from •USFS.

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## Terrestrial Invasive Species

## • **Buibani betseibeb on – guibau** ... Challenges:

- səisəqe Protect high quality habitat from invasive
- Setting priorities- so many invasive plants
- Collaborations with public and local

government

## Summary

- Effective management requires investment on each of the three principle goals (prevention, reduce spread, and manage impacts)
- Each species/situation needs to be evaluated separately
- Partnerships are critical extend breadth of effort and range of technical expertise, bring in more resources, take advantage of local interest/energy
- Management is not static our tools and capacities change w/ time as does our knowledge of long-term effectiveness

IE

Wednesday, January 26, 2005

Environment and Natural Resources Committee

Chair: Sen. John Marty 12 noon Room 107 Capitol Agenda: Commissioner Gene Merriam's presentation on the DNR's Strategic Conservation agenda. OHV forest classification process update. DNR invasive species presentation.