LEGISLATIVE COMMISSION ON MINNESOTA RESOURCES

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John Velin, Director

January 15, 2005

Governor Tim Pawlenty

Secretary of the Senate, Patrick E. Flahaven

Chief Clerk of the House, Albin A. Mathiowetz

Chair Senate Finance Committee, Senator Richard Cohen

Chair Senate Environment and Natural Resources, Senator John Marty

Chair Environment, Agriculture & Economic Development Budget Division, Senator Dallas Sams

Chair House Ways and Means, Representative Jim Knoblach

Chair House Environment and Natural Resources Policy, Representative Tom Hackbarth

Chair Agriculture, Environment and Natural Resources Finance, Representative Dennis

Ozment

Legislative Reference Library (6 copies)

Dear Colleagues:

Transmitted herewith is the biennial report of the Legislative Commission on Minnesota Resources (LCMR) as required in MS 116P, Subd. 7. On December 16, 2004, the members specifically adopted the new 2005 appropriation recommendations as stated in "V. Recommendations."

These funding recommendation are from the Environment & Natural Resource Trust Fund and the Great Lakes Protection Account. The LCMR no longer makes natural resource funding recommendations from the Future Resource Fund. The revenue was redirected to the General Fund per ML 2003, Ch. 128, Art. 1, Sec. 146 & Sec. 155.

We look forward to presenting this information and certainly encourage questions and discussion. Thank you for the opportunity to serve the Legislature in this capacity.

Sincerely,

Senator Jim Vickerman

Chair, LCMR

Senators: Jim Vickerman - Chair, Ellen Anderson, D. Scott Dibble, Dennis Frederickson, Linda Higgins, Pat Pariseau, Carrie Ruud, Dallas Sams, David Tomassoni, Charles Wiger

Representatives: Lyndon Carlson, Tom Hackbarth, Larry Howes, Phyllis Kahn, Jim Knoblach, Mark Olson, Joe Opatz, Dennis Ozment, Kathy Tingelstad.

Legislative Commission on Minnesota Resources

Biennial Report January 15, 2005

Pursuant to: M.S. 116P.09, Subd. 7

Please return this document to the LCMR office: Room 65 State Office Building

Commission Members

SENATORS

*Jim Vickerman - Chair, Ellen Anderson, D. Scott Dibble, *Dennis Frederickson, Linda Higgins, Pat Pariseau, Carrie Ruud, *Dallas Sams, David Tomassoni, Charlies Wiger.

REPRESENTATIVES

Lyndon Carlson, Doug Fuller, Tom Hackbarth, Larry Howes, *Phyllis Kahn, Jim Knoblach, Mark Olson, Joe Opatz, *Dennis Ozment, *Kathy Tingelstad.

This list is the Membership as of December, 2004.

* denotes Executive Committee Member

LCMR Staff

John Velin, Director Susan Thornton, Susan Von Mosch, Sandy Smith

Legislative Commission on Minnesota Resources Room 65, State Office Building, 100 Rev. Dr. Martin Luther King Jr. Blvd. St. Paul, MN 55155

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Web Address: www.lcmr.leg.mn

Table of Contents

The LCMR Newsletter

I. Strategic Plan / RFP

" a copy of the current strategic plan..."

The current Strategic Plan is the RFP dated December 2003. Following the Request for Proposal 2005:

- Environment and Natural Resources Trust Fund Constitutional Language amended November 3, 1998
- M.S. 116P The Minnesota Environment and Natural Resources Trust Fund (Trust Fund)
- M.S. 116P.13The Minnesota Future Resources Fund
- M.S. 116 Q.02 Great Lakes Protection Account
- Section 4.071, subdivision 2 Oil Overcharge

II. and III. Project Description: See Laws 2001 and Laws 2003

"a description of each project receiving money from the trust fund during the preceding biennium; a summary of any research project completed in the preceding biennium..."

Laws 2001, 1st Special Session, Chapter 2, Section 14 Laws 2003, Chapter 128, Article 1, Sec. 9

[Note: The abstracts provided are for projects funded by the Trust Fund, Minnesota Future Resource Fund, Great Lakes Protection Account, Oil Overcharge Money]

IV. Agency Implementation

"recommendations to implement successful projects and programs into a state agency's standard operations..."

V. Recommendations - FY 06 - 07

"to the extent known by the commission, descriptions of the projects anticipated to be supported by the trust fund during the next biennium..."

VI. Revenues and Distributions

"the source and amount of all revenues collected and distributed by the commission, including all administrative and other expenses..."

VII. Assets and Liabilities

"a description of the assets and liabilities of the trust fund..."

VIII. Findings to Legislature

"any findings or recommendations that are deemed proper to assist the legislature in formulating legislation."

IX. Gifts and Donations

"a list of all gifts and donations with a value over \$1,000..."

X. Environmental Spending Comparisons

" a comparison of the amounts spent by the state for environment and natural resources activities through the most recent fiscal year..."

XI. Compliance Audit

"a copy of the most recent compliance audit."

Legislative Commission on Minnesota Resources

Fall 2004

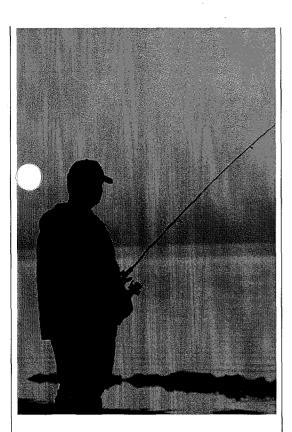
Legislative Commission on Minnesota Resources

100 Rev. Dr. Martin Luther King Jr. Blvd.

Rm. 65 - State Office Building

St. Paul, MN 55155

WHAT IS THE LCMR?



The Legislative Commission on Minnesota Resources (LCMR) is a bipartisan commission that makes funding recommendations to the Legislature for special environment and natural resource projects. Funding recommendations are typically for new, innovative, or accelerated projects designed to help sustain, enhance, and utilize Minnesota's natural resources.

The LCMR was created in 1963 to provide the Legislature with the background necessary to evaluate programs proposed to preserve, develop, and maintain Minnesota's natural resources. Since that time, over \$525 million has been appropriated for approximately 1,200 projects.

In 1963, projects were originally funded with Minnesota Future Resources Fund revenue (2 cents of the cigarette tax) until 2003 when that revenue was redirected to the General Fund. The first Environment and Natural Resources Trust Fund appropriation (from Minnesota State Lottery proceeds) was in 1991. Today, the Trust Fund is the primary funding source of the LCMR. Other funds such as the Oil Overcharge Money and the Great Lakes Protection Account are recommended for appropriation when available.

The Commission uses a number of approaches to assess the status of the state's natural resources and identify important issues and needs. These approaches include: site visits to public and private sector natural resource projects, regional discussions with natural resource managers, and a web survey soliciting input from citizens. With information gathered through those activities, the Commission adopts a Strategic Plan and issues a Request for Proposal to guide expenditure recommendations by the LCMR to the Minnesota Legislature for natural resource projects.

CITIZEN ADVISORY COMMITTEE (CAC)

for the Environment & Natural Resources Trust Fund

Appointed by the Governor

District 1 & At Large
John Kvasnicka

<u>District 2</u>
Nalani McCutcheon
John Dyke

<u>District 3</u> Janet McMillan

District 4
*vacant

<u>District 5</u>
Nancy Gibson, Chair
James Nelson

District 5 & At Large
David Hartwell

<u>District 6</u>
Catherine Thayer Nicholson

District 7
*vacant

<u>District 8</u> Ann Glumac

*Vacancy

If interested in serving on the CAC, contact the Secretary of State's Office, Open Appointments, at 651-296-5845 or www.sos.state.mn.us

Membership as of December 2004

WHO RECEIVES FUNDING?

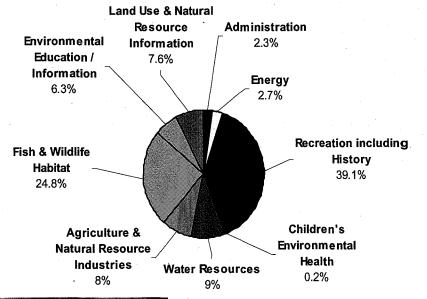
The Environment and Natural Resources Trust Fund appropriations have equaled about 1% of the total state spending on environment and natural resources biennially. The Trust Fund is appropriated by the Legislature along with the rest of the state budget for environment natural resources spending.

Anyone may apply for funding from the Trust Fund provided that the proposal is consistent with public purposes. Past recipients include:

- state agencies
- local governments
- colleges & universities
- nonprofit organizations
- school districts
- private individuals & companies

WHAT TYPES OF PROJECTS ARE FUNDED?

ALL FUNDING SOURCES: 1991 - 2003 LCMR Projects equals 100% of amount appropriated





The LCMR staff is available anytime to help with questions, specifics on projects, natural resource issues and background information. Do not hesitate to call with your questions or to set up a meeting.

LCMR Staff:

John Velin, Director Susan Thornton, Assistant Director Susan Von Mosch, Manager of Research & Planning Sandy Smith, Secretary

Phone: 651-296-2406

Fax: 651-296-1321

Email: lcmr@commissions.leg.state.mn.

Web Address: www.lcmr.leg.mn

Winter Newsletter 2004-2005

LCMR MEMBERS

Sen. Jim Vickerman, Chair Sen. Ellen Anderson Sen. D. Scott Dibble Sen. Dennis Frederickson Sen. Linda Higgins Sen. Pat Pariseau Sen. Carrie Ruud Sen. Dallas Sams Sen. David Tomassoni Sen. Charles Wiger

Rep. Lyndon Carlson Rep. Doug Fuller Rep. Tom Hackbarth Rep. Larry Howes Rep. Phyllis Kahn Rep. Jim Knoblach Rep. Mark Olson Rep. Joe Opatz Rep. Dennis Ozment Rep. Kathy Tingelstad

CITIZEN ADVISORY COMMITTEE (CAC)

for the Trust Fund Appointed by the Governor

John Kvasnicka, At Large and Dist. 1

Nalani McCutcheon, Dist. 2
John Dyke, Dist. 2
Janet McMillan, Dist. 3

Nancy Gibson, Chair, Dist. 5
James Nelson, Dist 5

David Hartwell, At Large and Dist. 5

Catherine Thayer Nicholson, Dist. 6

Ann Glumac, Dist. 8

Vacancies in Dist. 4 & 7
If interested in serving on the CAC, contact the Secretary of State's fice, Open Appointments, at 651-296-5845 or www.sos.state.mn.us

Membership as of December 2004

RESTORING MINNESOTA'S FISH AND WILDLIFE HABITAT CORRIDORS PROJECT - PHASE 1 COMPLETED ACCOMPLISHMENTS THROUGH PARTNERSHIPS

Over the last three years, a unique partnership funded by the Environment and Natural Resources Trust Fund (Trust Fund) has acquired, restored, or enhanced over 75,000 acres in 63 counties, focusing on identified habitat corridors to provide maximum benefit for fish, wildlife and plants. The 15 member Minnesota Habitat Corridors (MHCP) Partnership of state and federal agencies, tribal bands, and nonprofit organizations has received two phases of funding from the Trust Fund and is being recommended for a third phase of funding in 2005.

Using \$11.745 million in the Phase I funding from the Trust Fund starting in 2001, the MHCP has provided on the ground resource conservation through habitat restoration and management, conservation easement acquisition, and fee title acquisition on state, private and federal lands to connect fragmented habitat and protected public lands.

With the initial biennium of funding, the collaboration has resulted in the acquisition of fee title or conservation easements of approximately 12,500 acres and the restoration and enhancement of 20,000 acres and 26 miles of shoreline. Matching funds have provided \$40 million toward these efforts to acquire or restore an additional 46,000 acres and 17 miles of shoreline.

1 - Aspen Parklands
2 - Mississippi Headwaters
3 - Border Prairie
4 - Central Lakes
5 - Lower St. Louis River
6 - Upper Minnessota River
7 - Alexandria Moraine
8 - Big Woods North
9 - Des Moines River Valley
10 - Southern Lakes
11 - Mississippi Biuff Lands

Phase II funding of \$4,850,000 was provided to the partnership beginning in July 2003 and the LCMR is recommending \$4,062,000 for Phase III beginning in July 2005. In total, more than \$20.6 million from the Trust Fund will be provided to the Habitat Corridors Partnership.

A complementary project to the MHCP is the Metro Wildlife Corridors Project highlighted on the back page. The two projects, both with Trust Fund funding, provide focused, on the ground fish and wildlife habitat initiatives in rural, urban and urbanizing areas.

The final accomplishments report for Phase I of the MHCP project (ML 2001, First Special Session, Ch. 2, Sec. 14, Subd. 4e) will soon be available on the LCMR website under "2001 Project Abstracts."

See Page 2 for Highlights of the Corridors' Accomplishments

ACCOMPLISHMENT HIGHLIGHTS PHASE I— HABITAT CORRIDORS PARTNERSHIP IN MINNESOTA:

- Ducks Unlimited teamed up with the USDA-NRCS (Natural Resources Conservation Service) to restore and protect over 22,400 acres, including almost 8,000 wetland acres through perpetual easements. This increase in the Wetland Reserve Program (WRP) applications enabled Minnesota to rank second nationally in FY03 in securing federal funding for the Wetland Reserve Program totaling over \$29 million.
- Minnesota Land Trust worked with landowners to secure permanent conservation easements on private lands bordering critical riparian habitats. Easements protected more than 2,847 acres, including over 18 miles of shoreline. The Land Trust secured not only the protection of these lands, but sizeable donations for the value of these lands, totaling over \$3.6 million.
- DNR acquired 11 native prairie bank easements and The Nature Conservancy acquired 2 parcels with additional funds to protect 1555 acres of native prairie in corridor areas. In addition, 10 prairie habitat restoration projects were completed on private prairie land, including woody encroachment removal, mowing fire breaks, and prairie restoration. This complemented an additional 1223 of prairie habitat enhancement on private land through a new federal private lands program administered by DNR: the Landowner Incentive Program for Prairie Species at Risk.
- At Thorson Prairie, west of Glacial Ridge Reserve, Minnesota Trust for Public Land, the U.S. Fish and Wildlife Service and the Nature Conservancy partnered to acquire almost 3,000 acres, connecting 27,200 acres of wildlife habitat overall. Restoration of these lands is underway.
- DNR Division of Fish and Wildlife improved habitat on over 3,500 acres, including 22 miles of shoreline, through shoreland plantings, dam removals or modification, in-stream cover, lake aeration, fish barriers and shoreline stabilization. Activities took place in the Ottertail and Pelican river corridors, Brainerd lakes region, Lac Qui Parle Lake, and the Cannon River.
- The NonGame Program at DNR assisted lakeshore owners, landscapers and the nursery industry to restore native plant buffer zones on lakeshore property benefiting water quality, wildlife, and fisheries in areas around Bemidji, Detroit Lakes, Grand Rapids, Brainerd, Willmar, and Clearwater.

NEW BUCKTHORN WEBSITE!

Research on the biological control of buckthorn has been supported by the Environment and Natural Resources Trust Fund since 2003. This is a long-term research effort that will likely take many more years before its results are applicable to our own backyards, parks, and roadsides.

To assist property owners and land managers in the meantime, the Invasive Species Program at DNR has a new buckthorn web page up and running. The goal is to provide general information on impacts and regulation, identification, how to control, and alternative plants.

What you can do to control buckthorn! can be found at the following web site:

http://www.dnr.state.mn.us/invasives/terrestrialplants/ woody/buckthorn/index.html

PARTMCIPATING PARTNERS

INCLUDE:

- **Ducks Unlimited**
- Fond du Lac Reservation
- Leech Lake Band of Ojibwe
- Minnesota Board of Water and Soil Resources (Phase 2 & 3)
- Minnesota Deer Hunters Association
- Minnesota Department of Natural Resources
- Minnesota Land Trust
- Minnesota Valley National Wildlife Refuge Trust, Inc. (Phase 2 & 3)
- National Wild Turkey Federation
- Pheasants Forever
- Red Lake Band of Chippewa
- The Nature Conservancy
- Trust for Public Land
- U.S. Fish and Wildlife Service
- U.S. Natural Resources Conservation Service

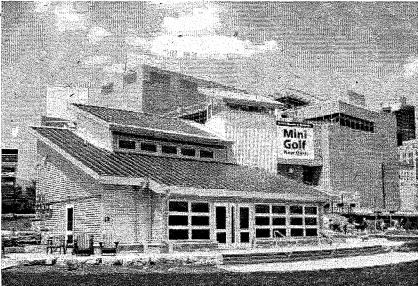


ENERGY AND THE ENVIRONMENT

in 2003, when LCMR asked for citizen input on future priorities for the Environment and Natural Resources Trust Fund, 22 percent of the 488 people responding identified "alternative energy" as the #1 priority. "Water resources" shared the #1 ranking with alternative energy. Several people commented that renewable

energy issues are inextricably linked with other environmental issues -- clean water, clean air, wildlife habitat, hunting, fishing, and recreation.

During its 2004
strategic planning
process, the LCMR
and Citizen Advisory
Committee identified
the development
and promotion of
clean, renewable
and/or innovative
nergy resources as
one of six priority
issue areas on
which to focus
funding and create a
legacy for the Trust Fund.



This 1,200 sq. ft. Science House uses a photovoltaic (solar) roof and ground-source heating and cooling systems to provide all the energy it needs to heat, cool, and power itself on an annual basis.

The American Institute of Architects Minnesota selected Janis LaDouceuer, the design architect for the Science House, as the outstanding young architect of 2003, and the Weidt Group as the energy modelers firm for 2003.

Wind Energy

In 2003, the Trust Fund provided \$200,000 each to Carleton College and the University of Minnesota-Morris (UMM) through the Minnesota Dept. of Commerce to cost share in the construction of wind turbines.

At Carleton, the 1.65 megawatt wind turbine, is estimated to replace about 40 percent of the college's total electrical load with green non-polluting energy and reduce emissions of greenhouse gases. Carleton College dedicated its wind turbine

in September 2004, while UMM broke ground for its turbine in November 2004.

For information on other energy projects receiving funding through the LCMR, see the list of project abstracts on our website - www.lcmr.leg.mn

approximately \$3.8 million in 2005 (see page 7). These recommendations build on LCMR's track record of funding innovative energy projects.

In response to the energy funding priority, the LCMR is recommending that ten energy projects be funded for

Science Museum

For example, in 1999, the Trust Fund funded the Science Museum of Minnesota's construction of the 1,200 square foot Science House, which serves as a laboratory and classroom for the Museum's new 1.2 acres outdoor science park. The Science House uses a photovoltaic (solar) roof and ground-source heating and cooling systems to provide all the energy it needs to heat, cool, and power itself on an annual basis.

In addition to demonstrating sustainable energy design, the Science House has been honored with the Energy and Environmental Building Association's Excellence in ilding Educational Achievement Award in October 3 and the Minnesota Environmental Initiative's Environmental Achievement Award in the Energy Category in 2004.

PAPERLESS UPDATES

LCMR's web site has extensive information: reports produced by the commission, newsletters, LCMR and CAC meeting notices and agendas, audio links for past meetings, abstracts of past funded projects, and membership lists, just to list a few. The information on the web far exceeds information that can be published.

We are encouraging people receiving this newsletter to consider <u>asking to be removed from our "paper" copy list</u> and sign up on the LCMR list-serv at: www.commissions.leg.state.mn.us/lcmr/listserv/listserv.htm

2005 LCMR PROCESS

WHAT IS BEING RECOMMENDED FOR FUNDING?

The LCMR is recommending a package of 74 natural resource and environmental projects totaling over \$39 million (\$37.6 million from the Environment and Natural Resources Trust Fund) to the 2005 Legislature.

Projects are for fish and wildlife habitat, recreation, water resources, natural resource information, energy, agriculture, forestry, environmental education, and children's environmental health. A full list of projects being recommended to begin July 2005 are on pages 6-7 and on the LCMR website at www.lcmr.leg.mn

HOW ARE THE PRIORITIES

DETERMINED?

Review and discussion of Minnesota's natural resources included LCMR and CAC members traveling 2,630 miles throughout regions of the state in the summer and fall of 2003 to see and hear about the resource challenges and needs first hand; citizen input generated from a webbased survey; and recommendations from the elevenmember Citizen Advisory Committee appointed by the Governor.

2003 LCMR WEB CITIZEN INPUT

In 2003, the ability to use the web for citizen information gathering created a virtual town hall discussion. Citizens were invited to post their priorities and comments about resource needs on the LCMR website during August and September 2003. Both the LCMR and CAC members reviewed the results of the citizen input web-based survey of priority natural resource funding needs in making their decisions. 488 responses were received to the question: "What issue do you think needs the most attention"?

31 responses (6%) Agricultural practices

105 responses (22%) Alternative energy

36 responses (7%) Children's environmental health

49 responses (10%) Environmental education

17 responses (4%) Fish habitat and management

18 responses (4%) Forest resources

37 responses (8%) Recreation and open space

105 responses (22%) Water resources

55 responses (11%) Wildlife habitat and management

35 responses (7%) Other

488 responses (% may not sum to 100 because of rounding)

All of the comments are posted on the LCMR website.

SITE VISITS

Highlights of site visits during the summer and early fall of 2003 included the following:

- Red River Recreation Area: the reuse of the flood plain for recreation, fishery restoration efforts, and water quality and quantity issues
- Glacial Ridge native prairie restoration and landscape connections and habitat for wildlife (see pg. 2)
- Aggregate mining impacts on prairies and restoration efforts in NW Minnesota
- Wind energy in SW and NW Minnesota
- Shallow Lake Management, site stops at Heron Lake and Lake Christina
- Forest management and reforestation and research needs
- Scenic and natural area acquisition
- Wild rice lake restoration
- Public water supply challenges
- Phosphorus and lake water quality / lake management planning.
- Research of biological control of exotic species impacting agricultural crops, water, and natural areas
- State, local, metro, regional, and outstate regional parks; reviewing how the different parks and park systems are used, their unique natural resource features, and recreation opportunities.



In 2001, the Gateway Trail Bridge was approved for funding. This bridge over Huly 96 was completed in Summer of 2004. It helps riders and trail users safely cross over what was a dangerous road crossing.

FUNDING PRIORITIES

The LCMR and CAC sat down together to review what they had heard and learned during the trips and presentations. The discussions focused on what the vision should be for the legacy of the Trust Fund, including review of outcomes of previously funded projects, the desire to ensure funding for completion of all needed phases of a project and brainstorming on the opportunities for funding new initiatives.

With further deliberation, the CAC recommended that the LCMR consider the following funding priorities: Water Resources, Wildlife Habitat, Energy, and Matching Grants for Parks, Trails, and Local Water Plan Implementation.

LCMR members used this advice as the foundation for the LCMR adopted funding priorities and Request for Proposal (RFP). The LCMR also added a funding priority for the Enhancement to State Park and Recreation Areas. Trails, and other elements of the Outdoor Recreation System and invited several previously funded projects to apply again in order to continue or complete an activity.

These projects included research projects for biological control of common carp and buckthorn, evaluation of timber harvesting management, the development of two major trail systems, water monitoring for lakes and streams, and two essential natural resource mapping data layers, the County Biological Survey and Soil Survey.

REQUEST FOR PROPOSAL

The RFP was mailed to over 3,500 individuals and organizations in December 2003. An on-line version was also available at the LCMR web address. By the deadline of February 20, 2004, the LCMR had received 221 proposals, requesting over \$240 million.

PROPOSAL REVIEW AND LCMR FUNDING RECOMMENDATIONS

After the initial review of all proposals and advice on the proposals received from the CAC, the LCMR selected 93 proposals totaling over \$182 million that best fit the funding priorities and evaluation criteria in the RFP. Project managers of the proposals were asked to present proposals before the Commission and the CAC and to respond to questions at a series of public meetings during eight days in June.

Once the presentation process was complete, the CAC met again and recommended 33 proposals totaling \$33 million to the LCMR for consideration for funding from the Environment and Natural Resources Trust Fund.

The LCMR, using the advice of the CAC along with information gathered during the site visits and from presentations, developed a package of projects (listed on pages 6-7) to recommend to the 2005 Legislature.

MINNESOTA

A history of the land

PREMIER OF TRUST FUND FILM PROJECT SET FOR FEBRUARY ON TPT

Minnesota: A History of the Land, a four-part documentary series, vividly brings to life the epic story of the people and landscapes of Minnesota. From the retreat of the last ice sheets to the growth of today's suburbs, the series seeks to entertain as it enriches our understanding of Minnesota's past, present, and future. The show will premiere on Feb. 21 and 22 at 8 p.m. on TPT.

Minnesota: A History of the Land, a production of the College of Natural Resources, University of Minnesota, and Twin Cities Public Television (TPT), received Environment and Natural Resources Trust Fund support in 1999 and 2002. Additional funding was provided by the McKnight Foundation and a partnership of private and public matching funds. Barbara Coffin is the executive producer, Polly Fry and John Whitehead are producers, and the original soundtrack is by Peter Ostroushko. For more information go to www.historyoftheland.org.

2005 LCMR RECOMMENDED PROJECTS The LCMR is recommending 70 appropriations for a total of \$39,286,000 to the 2005 Legislature. In total, 94 projects are recommended, including the multiple habitat corridors projects.

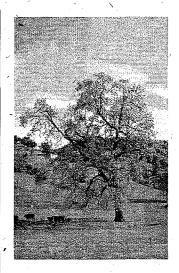
FISH AND
WILDLIFE\$10,076,000
*Restoring Minnesota's Fish and Wildlife Habitat Corridors - Phase 3 15 state, federal, tribal and non-profit organizations\$4,062,000
*Metropolitan Area Wildlife Corridors - Phase 2 9 state and non-profit organizations\$3,530,000
*Development of Scientific and Natural Areas *DNR***\$134,000
Prairie Stewardship of Private Lands DNR\$100,000
*Local Initiative Grants (Conservation Partners and Environmental Partnerships) DNR\$500,000
Minnesota ReLeaf Community Forest Development and Protection DNR\$500,000
*Integrated and Pheromonal Control of Common Carp U of M\$550,000
*Biological Control of European Buckthorn and Garlic Mustard DNR\$200,000
Land Exchange Revolving Fund for Aitkin, Cass and Crow Wing Counties Aitkin County\$500,000
RECREATION
State Park and Recreation Area Land Acquisition DNR\$2,000,000
LAWCON Federal Reimbursements DNR\$1,600,000
State Park and Recreation Area Revenue-Enhancing Development DNR\$200.000

ng the multiple habitat corridors projects.				
Best Management Practices for Parks and Outdoor Recreation MN Recreation and Park				
Association\$200,000				
*Metropolitan Regional Parks Acquisition, Rehabilitation and Development				
Metropolitan Council\$2,000,000				
Gitchi-Gami State Trail DNR\$500,000				
Casey Jones State Trail DNR\$1,200,000				
Paul Bunyan State Trail Connection DNR\$400,000				
Minnesota River Trail Planning U of M\$200,000				
*Local Initiative Grants (Parks and Natural Areas) DNR\$1,200,000				
Regional Park Planning for Nonmetropolitan Urban Areas U of M\$86,000				
*Local and Regional Trail Grant (Initiative Program DNR\$700,000				
Mesabi Trail				
St. Louis/Lake Counties Regional Railroad Authority\$1,000,000				
Cannon Valley Trail Belle Creek Bridge Replacement				
Cannon Valley Trail Joint Powers Board\$300,000				
Arrowhead Regional Bike Trail Connections Plan				
Arrowhead Reg. Development Commission\$83,000				
Replacement Cannon Valley Trail Joint Powers Board\$300,000 Arrowhead Regional Bike Trail Connections Plan Arrowhead Reg. Development Commission\$83,000 Land Acquisition, Minnesota Landscape Arboretum U of M\$650,000 Development & Rehabilitation of Minnesota Shooting Ranges DNR\$300,000				
Development & Rehabilitation of Minnesota Shooting Ranges DNR\$300,000				

Birding Maps Audubon Minnesota\$100,000
WATER RESOURCES
*Local Water Management Matching Challenge Grants BWSR\$1,000,000
*Accelerating and Enhancing Surface Water Monitoring for Lakes and Streams
PCA / MN Lakes Assoc. / Rivers Council\$600,000 *Effects of Land Retirements on the
Minnesota River BWSR\$300,000
*Recycling Treated Municipal Wastewater for Industrial Water Use Metropolitan Council\$300,000
*Unwanted Hormone Therapy: Protecting Water and Public Health U of M\$300,000
Climate Change Impacts on Minnesota's Aquatic Resources U of M - NRRI\$250,000
Green Roof Cost Share and Monitoring Ramsey Conservation District\$350,000
Woodchip Biofilter Treatment of Feedlot Runoff Stearns County SWCD and U of M\$270,000
Improving Water Quality on the Central Sands Central Lakes College Agricultural
*Improving Impaired Watersheds: Conservation Drainage Research
Dept of Agriculture\$300,000 Hydrology, Habitat and Energy
Potential of Mine Lakes Central Iron Range Initiative:\$500,000

*denotes CAC recommended project.

	· · · · · · · · · · · · · · · · · · ·		
	Hennepin County Beach Water Quality	*Sustainable Management of Private Forest Lands	ENVIRONMENTAL
	Monitoring Project Hennepin County\$100,000	DNR\$874,000	EDUCATION\$720,000
	Southwest Minnesota Floodwater	Evaluating Riparian Timber Harvesting	Enhancing Civic Understanding of Groundwater
	Retention Projects	Guidelines: Phase 2	Science Museum of
	Area II MN River Basin Projects, Inc\$500,000	U of M\$333,000	Minnesota\$150,000
٠		3rd Crops for Water Quality - Phase 2	*Cedar Creek Natural History Area
	Upgrades to Blue Heron Research Vessel	Rural Advantage/BERBI\$500,000	Interpretive Center and Restoration
	<i>U of M</i> \$295,000	Bio-conversion of Potato Waste into Marketable Biopolymers	<i>U</i> of <i>M</i> \$400,000
	Bassett Creek Valley Channel	Bemidji State University\$350,000	*Environmental Problem-Solving Model for Twin Cities Schools
	Restoration \$3.75,000	, ,	Eco Education\$75,000
	City of Minneapolis\$175,000	ENERGY\$3,792,000	
	Restoration of Indian Lake		Tamarack Nature Center Exhibits
	MN Environmental	*Clean Energy Resource Teams and	Ramsey County Parks &
	Services\$200,000	Community Wind Energy Rebate	Recreation\$95,000
	類 ※	Programs /	
	LAND USE AND	Dept. of Commerce\$700,000	CHILDRENA
,			CHILDRENS
	NATURAL RESOURCE	Planning for Economic Development	ENVIRONMENTAL
	INFO\$2,000,000	via Energy Independence U of M - Duluth\$240,000	HEALTH\$200,000
	*Minnesota County Biological Survey		Minnesota Children's Pesticide
	DNR\$1,000,000	*Manure Methane Digester Compatible Wastes and Electrical Generation.	Exposure Reduction Initiative Dept. of Agriculture\$200,000
	Soil Survey	Dept. of Agriculture \$100,000	
	BWSR\$500,000	*Dairy Farm Digesters	
		The Minnesota Project\$336,000	ADMINISTRATION
	Land Cover Mapping for Natural Resource Protection		
	Hennepin County\$250,000	*Wind to Hydrogen Demonstration	
	***************************************	U of M - W. Central Research and Outreach Center\$800,000	LCMR Administrative Budget
	Open Space Planning and Protection Anoka Conservation		<i>LCMR</i> \$899,000
	District\$250,000	Natural Gas Production from Agricultural Biomass	Contract Administration
		Sebesta Blomberg & Assoc\$100,000	DNR\$150,000
	AGRICULTURE AND	1	
	NATURAL RESOURCE	*Biomass-Derived Oils for Generating	
	INDUSTRIES	Electricity and Reducing Emissions	CITIZEN ADVISORY
	\$2,683,000	<i>U of M</i> \$150,000	COMMITTEE\$20,000
ď	· · · · · · · · · · · · · · · · · · ·	Phillips Biomass Community Energy	*Citizen Advisory Committee Budget
	*Completing Third-Party Certification of	System	<i>LCMR</i> \$20,000
	DNR Forest Lands	Phillips Community Energy	and FY 2005 Carryforward\$15,000
	DNR\$250,000	Cooperative\$900,000	
	*Third Party Certification of Private	Laurentian Energy Authority Biomass	*
	Voodlands	Project	装 33 36
	U of M\$376,000	Virginia Public Utility\$466,000	



"It's important to restore the habitat and I thought I should (help) since I like to watch the birds here."

Anne, a volunteer at Great River Greening restoration event

HABITAT CONSERVATION THROUGH METRO WILDLIFE CORRIDORS

This restoration event in the Minnesota Valley where many partners are working together epitomizes the Metro Wildlife Corridors partnership approach to habitat conservation.

Since joining together in 2002, the eight nonprofit organizations and five Department of Natural Resources programs of Metro Wildlife Corridors have collaborated to acquire and restore a habitat network in the greater Twin Cities Metropolitan Area to protect and improve the health of native vegetation, fish, and wildlife species.

In the first 13 months implementing projects funded by the Environment and Natural Resource Trust Fund-funded projects, the Metro Wildlife Corridors completed 4 restoration projects totaling 92 acres and closed on 2 fee title acquisition and 3 conservation easement projects protecting 161 and 55 acres respectively. Plus, another 16 restoration and 13 acquisition projects are in progress.

By early 2008, through the Trust Fundapproved Phase I and proposed Phase II, the partners anticipate restoring 2,450 acres and through acquisition or easements 1,790 acres of habitat that would otherwise be lost to urban growth.

This effort received \$4,850,000 from the Trust Fund in July 2003 and is recommended to receive \$3,530,000 beginning July 2005.

Partners include:

- Ducks Unlimited
- Friends of the Minnesota Valley
- Friends of the Mississippi River
- ♦ Great River Greening
- Minnesota Land Trust
- Minnesota Valley National Wildlife Refuge Trust
- Pheasants Forever
- The Trust for Public Land
- Department of Natural Resources (Metro Greenways, Scientific and Natural Areas, Wildlife and Fisheries, and Forestry)

LCMR Staff:

John Velin, Director Susan Thornton Susan Von Mosch Sandy Smith

Information from this document may be copied and distributed to others. This publication can be made available in alternate formats, such as large print or cassette tape, upon request.

Any suggestions or questions can be sent to the address below.

Phone:

651-296-2406

TTY:

651-296-9896 OR 1-800-657-3550

Fax:

651-296-1321

Email:

lcmr@commissions.leg.state.mn.us

Legislative Commission on Minnesota Resources

100 Rev. Dr. Martin Luther King Jr., Blvd. Rm. 65 - State Office Building St. Paul, MN 55155

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I. Strategic Plan / RFP

" a copy of the current strategic plan..."

Following the Strategic Plan / RFP:

- Environment and Natural Resources Trust Fund Constitutional Language amended November 3, 1998
- M.S. 116P The Minnesota Environment and Natural Resources Trust Fund (Trust Fund)
- M.S. 116Q.02 Great Lakes Protection Account
- Section 4.071, subdivision 2 Oil Overcharge

Legislative Commission on Winnesota Resources

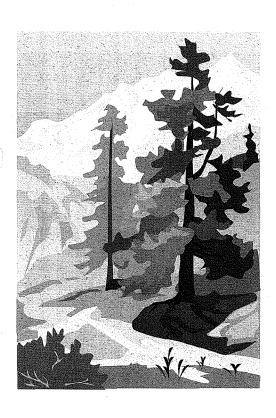
December 2003.

REQUEST FOR PROPOSALS

FUNDING BEGINNING: JULY 1, 2005

DEADLINE TO SUBMIT: FEBRUARY 20, 2004

FIRM DEADLINE: POSTMARKED BY OR RECEIVED AT THE LCMR OFFICE BY 4:30 P.M.



The LCMR has identified the following funding priorities for the 2006-2007 biennium.

- Water
- Habitat
- Energy
- State Parks, Recreation Areas, Trails and other enhancements to the State Outdoor Recreation System
- Matching Grant Programs
- Continuation Projects



FUNDING SOURCES:

MN Environment & Natural Resources Trust Fund - \$30 million

Great Lakes Protection Account—to be determined

Land & Water Conservation Fund (LAWCON) - \$1.6 million

all dollar amounts are estimates

BACKGROUND INFORMATION



LCMR MEMBERS

SENATORS

Jim Vickerman, Chair
Ellen Anderson
D. Scott Dibble
Dennis Frederickson
Linda Higgins
Pat Pariseau
Carrie Ruud
Dallas Sams
David Tomassoni
Charles Wiger

REPRESENTATIVES

Lyndon Carlson
Doug Fuller
Tom Hackbarth
Larry Howes
Phyllis Kahn
Jim Knoblach
Mark Olson
Joe Opatz
Dennis Ozment
Kathy Tingelstad

Membership as of December 2003

DEADLINE FOR SUBMISSION:

February 20, 2004 at 4:30 p.m.

This is a firm deadline. Hard copies must be postmarked by or received at the LCMR office by 4:30 p.m.

FINAL PROPOSALS MUST BE SUBMITTED IN HARD COPY.

Final proposals sent by e-mail or fax cannot be accepted.

SUBMIT PROPOSALS TO:

Legislative Commission on MN Resources Room 65, State Office Building 100 Rev. Dr. Martin Luther King Jr. Blvd. St. Paul, MN 55155

ELIGIBILITY—OPEN TO EVERYONE:

Application is open to everyone, as long as there is a demonstrated public benefit. The LCMR is an ADA/equal opportunity employer.

The spirit and intent of the LCMR is to provide access to EVERYONE who has innovative ideas for environmental and natural resource projects with a distinct public benefit which reflect the Commission's adopted Funding Priorities. No grant-making or lobbying assistance is necessary for success. The LCMR staff will assist in proposal development.

For a complete list of eligible and non-eligible costs see page 10.

PROJECT IMPLEMENTATION:

Projects are intended for a two-year duration (July 2005 to June 2007), however, LCMR will consider requests for multiple biennium funding.

PROPOSAL ASSISTANCE:

LCMR staff are available to assist proposers and answer questions or review draft proposals. If you would like proposal development assistance, staff can assist you by phone, e-mail, fax or by appointment.

Phone: (651) 296-2406

Fax: (651) 296-1321

e-mail: lcmr@commissions.leg.state.mn.us

FUNDING BACKGROUND:

Funding Priorities are reviewed and adopted every two years. The priorities are for projects to begin July 2005. The order of the Funding Priorities does not reflect any prioritization.

Although other proposals may be considered, adopted priorities will be given first consideration. The priorities apply to all funding sources. Proposers are requested to respond to a funding priority not a funding source.

Reinvest in Minnesota: RIM related activities are eligible and may be recommended for funding by the LCMR. (M.S. 84.95)

If land acquisition is part of the priority it includes both conservation easements and purchase of development rights.

2005 FUNDING PRIORITIES

The LCMR has identified the following funding priorities for seeking proposals for the 2006-2007 biennium.



WATER

Improve the quality and/or quantity of ground and surface waters.



HABITAT

Acquire, restore or protect fish, wildlife and native plant habitat.



ENERGY

Develop and promote efficient energy resources which are clean, renewable and/or innovative.



STATE PARKS, RECREATION
AREAS, TRAILS AND OTHER
ENHANCEMENTS TO THE STATE
OUTDOOR RECREATION SYSTEM
(AS DEFINED IN MS 86A.04)



MATCHING GRANT PROGRAMS

The LCMR intends to recommend money to support the four matching grant programs: 1) Local Initiative Grants Program, 2) Local & Regional Trails, 3) Metropolitan Regional Parks & Trails, and 4) Local Water Management Matching Challenge Grants, listed on page 4 & 5. Submit to the identified program, not the LCMR.



CONTINUATION PROJECTS

In an effort to continue the work started by LCMR funding, consideration will be given to the list of projects listed on pg. 5.

CITIZEN ADVISORY COMMITTEE (CAC)

for the Trust Fund

Appointed by the Governor

District 1 & At Large

John Kvasnicka

District 2

Nalani McCutcheon

District 3

Janet McMillan

District 4

Greta Hesse Gauthier

District 5

Nancy Gibson, Chair

James Nelson

District 5 & At Large

David Hartwell

District 6

Catherine Thayer Nicholson

District 7

Kristin Eggerling

District 8

Ann Glumac

Vacancy

If interested in serving on the CAC contact the Secretary of State's Office, Open Appointments, at 651-296-5845 or www.sos.state.mn.us/

Membership as of December 2003

MATCHING GRANT PROGRAMS

If your proposal fits one of the grant programs listed, DO NOT submit a proposal to the LCMR. The LCMR intends to recommend money to these programs. Directly contact the individuals listed for grant proposal format and information. The format on pages 8 & 9 is not applicable to these programs.

1) LOCAL INITIATIVES GRANTS PROGRAM

The LCMR intends to recommend money to support the matching grants program in the Department of Natural Resources (DNR) for Local Initiative Grants for the following types of projects:

Outdoor Recreation Matching Grant Program (for counties, cities and townships) for acquisition, development and/or redevelopment costs of local parks and recreation areas.

Regional Park Matching Grant Program (for cities, counties, townships located outside the seven county metropolitan area) for acquisition, development and/or redevelopment costs of regional parks.

Natural and Scenic Area Matching Grant Program (for cities, counties, townships and school districts) for acquisition of natural and scenic areas (up to \$500,000).

Conservation Partners Matching Grant Program (for private/nonprofit organizations and local governments, including cooperative projects involving local governments) provides assistance (up to \$20,000) for projects that enhance fish, wildlife and native plant habitat or for research or survey projects related to habitat enhancement.

Environmental Partnerships Matching Grant Program (for private/nonprofit organizations) to help carry out a variety of projects to help protect and enhance our natural environment (up to \$20,000).

For further information about the Local Initiative Grants Program and submitting a proposal contact: Wayne Sames, (651) 296-1567, or e-mail: wayne.sames@dnr.state.mn.us

Do not submit proposals to the LCMR, submit directly to the Local Initiative Grants Program.

2) LOCAL AND REGIONAL TRAILS

The LCMR intends to recommend money to support the Local and Regional Trails program during the biennium beginning July 2005.

Local Trail Connections Matching Grant Program (for cities, counties and townships) to develop trail connections between communities and existing park and trail facilities (up to \$100,000).

Regional Trail Matching Grant Program (for cities, counties and townships) to develop new long distance trails of regional significance (up to \$250,000).

For further information about the Local and Regional Trails Grants and submitting a proposal contact: Tim Mitchell, (651) 297-1718, or e-mail: tim.mitchell@dnr.state.mn.us

Do not submit proposals to the LCMR, submit directly to the Local and Regional Trails program.

3) METROPOLITAN REGIONAL PARKS AND TRAILS

The LCMR intends to recommend money to support Metropolitan Parks and Trails programs during the biennium beginning July 2005.

Projects eligible for funding through the Metropolitan Parks and Open Space program will only be considered as part of the Metropolitan Council's 2004—2009 Regional Parks Capital Improvement Program (CIP).

For information about the 2004—2009 Regional Parks Capital Improvement Program, please contact: Arne Stefferud, (651) 602-1360 or e-mail: arne.stefferud@metc.state.mn.us

Do not submit proposals to the LCMR, submit directly to the Metropolitan Council and Parks Open Space Commission Capital Improvement (CIP) Program.

4) LOCAL WATER MANAGEMENT MATCHING CHALLENGE GRANT

The LCMR intends to recommend money to support the implementation of priority activities identified in state approved local water management plans via the Board of Water and Soil Resources Local Water Management Challenge Grant Program during the biennium beginning July 2005.

Eligible applicants are counties, watershed management organizations, watershed districts and soil and water conservation districts that have been delegated under the M.S. 103B.301 local water management program.

Potentially fundable implementation categories and some example activities include:

Land and Water Treatment includes activities applied to the land or a water resource such as erosion control structures, shoreline protection measures, inlake restoration projects.

Planning and Environmental Controls includes the development of lake management plans, official controls relating to water, linking comprehensive plans to land use plans.

Monitoring and Modeling includes activities such as citizen monitoring networks, modeling ground water flow or surface water runoff.

Inventory and Mapping includes conducting detailed inventories of drainage systems, wetlands or feedlots.

Education and Information includes workshops and seminars.

For further information about the Local Water Management Challenge Grant Program and submitting a proposal contact: Marybeth Block, (651) 297-7965, or e-mail: marybeth.block@bwsr.state.mn.us

Do not submit proposals to the LCMR, submit directly to the Local Water Planning Challenge Grant Program.

CONTINUATION PROJECTS

Continued from page 3...



To be considered, the following Continuation Projects proposals must be submitted and meet all application requirements. The continuation project proposals will be evaluated according to the same criteria as all other proposal submissions. These projects include:

ML 2003, Ch. 128, Art. 1, Sec. 9, Subd.

- 5(h) Developing Pheromones for Use in Carp Control
- 5(i) Biological Control of European Buckthorn
 & Spotted Knapweed
- 6(f) Gitchi-Gami State Trail
- 6(h) Mesabi Trail
- 7(b) Accelerating & Enhancing Surface Water Monitoring for Lakes & Streams- Results 1 & 2
- 8(a) Minnesota County Biological Survey
- 8(b) Updating Outmoded Soil Survey

ML 2001, 1st Special Session, Ch. 2, Sec. 14, Subd.

• 8(a) Evaluating Timber Harvesting and Forest Management Guidelines

EVALUATION CRITERIA



- LCMR members will review ALL of the proposals for consideration.
- No proposals will be eliminated by the LCMR staff or the Citizen Advisory Committee (CAC).
- LCMR staff will sort all proposals by Funding Priorities and rank them according to the Criteria for use by the LCMR & CAC members during their initial selection process.
- Trust Fund expenditures must conform to the Trust Fund law (MS 116P.08 see back page)
- All projects are subject to additional proposal requirements: accessibility, data availability, land acquisition, and recyclable material requirements. Information located at www.lcmr.leg.mn

Project Managers and partners must be accountable and able to complete project objectives.

The criteria will be applied as one part of the proposal evaluation and recommendation process. The total potential score for each criterion is written in parentheses. All points will be awarded on a sliding scale. (up to 50 points total)

- Long-term Impact (up to 10 pts)
- **Demonstrated Outcomes** (up to 10 pts)
- **Project Readiness** (up to 7.5 pts)
- **Innovation** (up to 7.5 pts)
- Statewide/Regional Significance (up to 5 pts)
- Partnerships (up to 5 pts)
- Leverage Other Funds & Resources (up to 5 pts)

Total possible points (up to 50 pts)

SUBMISSION REQUIREMENTS

Please Submit:

4 Items - 3 Copies of Each

- 1) Proposal 3 page limit.
- 2) Map showing project site(s) 1 page limit, black & white.
- 3) Project Manager Qualifications and Organization Description 1 page limit.
- 4) Letter or Resolution For non-profits and local units of government (state/federal agencies and universities are excluded) submit a letter or resolution authorizing proposal submission.

1) Proposal—3 page limit

- Send 3 copies of proposal (maximum of three 8
 1/2 x 11 sheets single sided).
- Leave a blank one inch margin at the bottom.
- The proposal must be in the format explained on pages 8-9 and is limited to three single sided pages.
- Minimum font-type size is 12. This page is typeset on 12 points.
- Project title should be clearly marked on the top of each page.
- Plastic covers, plastic bindings, and staples will NOT be accepted.
- The proposal format is designed to provide concise information. It begins with a brief project summary of intended results, followed by a description of specific project results and budgets associated with completion of the activities of the project.
- **Proposal Template**: A template of the proposal format is available on the LCMR web page at: http://www.lcmr.leg.mn



"The format is designed to be simple and does not require professional grantsmaking."

2) Map

Send 3 copies of a map (maximum of one 8 1/2 x 11 sheet - single sided). Should be easy to duplicate. NO COLOR MAPS.

Be site specific to the project. Maps should be clearly legible, with enough orientation to bring a reader to a quick understanding of the location of the project within the city, county, region and/or state.

3) Project Manager Qualifications

& Organization Description

Send 3 copies of Project Manager Qualifications and Organization Description (maximum of one 8 1/2 x 11 sheet - single sided).

In this document include the project manager description of qualifications and responsibilities pertaining to this specific project proposal. It does not need to be a complete resume.

The organization description should be a simple, brief explanation of the organization and its mission. One to two sentences. e.g. Local Government Unit, 501 (c)(3) etc.

4) Letter or Resolution (if applicable)

Send 3 copies of the letter or resolution. For non-profits and local units of government send a letter or resolution authorizing proposal submission from their governing board. State / federal agencies and universities are excluded from submitting this.

LCMR staff are available to assist proposers, answer questions and review draft proposals.

PROPOSAL FORMAT (3 PAGE LIMIT)

LCMR Proposal 2005 (repeat this phrase in the upper left hand corner)

Title: (limit 8 words) - repeat on the top of each page submitted, including submissions of map and of project manager qualifications and organization description.

Total Biennial Project Budget: (requested from LCMR) \$

Other Funds (explain in IV. B.)

Funding Priority: (state the title of the funding priority responding to, e.g. Water)

Project Manager: (One name only. Note: list team members under IV. A. Project Partners)

Affiliation:

Mailing Address:

Telephone Number: (be sure to provide a reliable phone number in case of questions)

E-Mail: (if available)

Fax: (if available)

Web Address: (if available)

Location: (Where will the work impact? Be as specific as possible e.g. county, city, township, stream or lake

name, and map coordinates.)

I. PROJECT SUMMARY AND RESULTS: The summary is LIMITED TO 30 WORDS and must be a free standing summation of the project. Be specific. Provide a clear, concise summary of the proposed project and its results. It is important that the summary be able to stand on its own as a description of the proposal because it will be used with the project title as the project description during the proposal review.

II. DESCRIPTION OF PROJECT RESULTS: Begin this section with a brief explanation as to WHY this project needs to be done and the specific outcomes of the project.

Break the project into specific results. Indicate the budget for each result. FOR EXAMPLE:

Result 1 " *Title of Activity*" **Budget:** \$ *Assign a lump sum cost (budget) to each discrete result.*

Give a detailed description of the activity you are proposing to do and the outcomes. Be specific. For example, indicate miles of trail acquired and developed, acres impacted, number of people reached.

Further break down the Result budget dollar amount into these categories. ONLY LIST THE CATEGORIES THAT APPLY TO THE RESULT LISTED:

Personnel: \$

Equipment: \$

Development: \$

Acquisition: \$

Other (Specify): \$

PROPOSAL FORMAT

Result 2 " Title of Activity" Budget: \$ Assign a lump sum cost (budget) to each discrete result.

Give a detailed description of the activity you are proposing to do and the outcomes. Be specific. For example, indicate miles of trail acquired and developed, acres impacted, number of people reached.

Further break down the Result budget dollar amount into these categories. ONLY LIST THE CATEGORIES THAT APPLY TO THE RESULT LISTED:

Personnel: \$

Equipment: \$

Development: \$

Acquisition: \$

Other: (Specify) \$

ADD ADDITIONAL RESULTS AS NEEDED: SAME FORMAT AS ABOVE

III. TOTAL PROJECT REQUEST BUDGET: (In this section describe the details of your budget. The budget for each result above will be a summary.)

All Results: Personnel: \$ (who is getting paid to do what, their % of full time employment for the project period)

All Results: Equipment: \$ (what equipment, to be rented or purchased – a general description and cost)

All Results: Development: \$ (improvement to land or building)

All Results: Acquisition: \$ (how many acres, also who will hold the title to the land)

All Results: Other: \$ (Describe the specific activity and cost):

TOTAL BUDGET: \$ (requested from LCMR)

IV. OTHER FUNDS & PARTNERS:

- **A. Project Partners:** If the project has cooperators (project team), list names and agency/entity affiliate. Specifically state the dollar amount each cooperator <u>will receive from the dollars requested</u> in this proposal.
- **B. Other Funds being Spent during the Project Period:** What additional money will be spent on the project during the funding period, cash or inkind? State the source of the other funds.
- **C. Past Spending:** List the money spent or to be spent on this specific project, cash or inkind for the 2-year time frame prior to July 1, 2005.
- **D. Time:** *If the proposed project will exceed two years, explain completely the additional time and funding requirements.*

ELIGIBLE & NON-ELIGIBLE COSTS

ELIGIBLE COSTS

Eligible costs are those costs <u>directly</u> incurred through Project activities that are <u>solely related</u> to and necessary for producing the work products described in the approved Work Program during the appropriation period. All dollars are awarded on a reimbursement basis, unless specifically authorized.

Eligible costs may include the following and are eligible only if specified in the approved Attachment A of the Work Program. Eligible costs must be documented as specified in the Reimbursement Manual available from the authorized contract person for the State:

- Expenditures incurred only after the effective date in the approved Work Program. No expenditures will be allowed after June 30, 2007 unless approved by specific law;
- b. Capital expenditures for facilities, equipment & other capital assets as expressly approved in the Work Program. For expenditures greater than \$3,500, the Recipient must include in the Work Program an explanation as to how all the equipment purchased with the appropriation will continue to be used for the same program through its useful life, or, if the use changes, a commitment to pay back to the Environment & Natural Resources Trust Fund an amount equal to either the cash value received or a residual value approved by the director of the LCMR if it is not sold:
- Computers, if unique to the project and specifically approved in the work program;
- d. Materials and supplies specific to the project and incoming freight charges for them;
- e. Publication & printing costs (including the process of composition, plate-making, press work, & binding & the end products produced) necessary for contract administration; work products production; & biennial reports relating to work program accomplishments;
- f. Transportation & travel expenses such as lodging, meals, & mileage of personnel involved in the Project in the same manner and in no greater amount than provided for in the current "Commissioner's Plan" promulgated by the Commissioner of Employee Relations and as provided by LCMR or, for University of Minnesota (U of M) projects, the University of Minnesota plan found at http://www.fpd.finop.umn.edu/groups/ppd/documents/policy/travel.cfm. Allowable meal & lodging expenses are for employees only. Purchasing meals for others is not an allowable expense. All out of state travel must be explicitly approved in the Work Program;
- g. Wages & expenses of salaried Recipient employees if specified and documented in the Work Program. For State Agencies: use of unclassified staff only OR request approval for the use of

- classified staff accompanied by an explanation of how the agency will backfill that part of the classified staff salary proposed to be paid for with this appropriation. This is subject to specific discussion and approval by LCMR;
- Fringe benefit costs limited to salary, FICA/Medicare, retirement, and health insurance of Recipient's employees if specified in the Work Program;
- Professional services specified in the approved Work Program that are rendered by individuals or organizations not a part of the Recipient;
- Eligible expenditures incurred after the effective date of the approved Work Program and before the effective date of their Agreement.

NON-ELIGIBLE COSTS

Non-eligible costs for reimbursement mean all costs not defined as eligible costs, including but not limited to the following:

- Any costs incurred before the project is authorized, July 1,
 2005 or Work Program approval; whichever is later;
- b. Fund raising;
- c. Taxes, except sales tax on goods and services;
- d. Insurance, except title insurance;
- e. Attorney fees, except for acquisition and clearing title to land;
- f. Loans, grants, or subsidies to persons or entities for development;
- g. Bad debts, late payment fees, finance charges or contingency funds; Interest, Investment management fees;
- h. Lobbyists, Political contributions;
- i. Memberships (including subscriptions and dues);
- j. Indirect costs, such as office maintenance, office utility costs, refreshments for staff, decorations, office material & supplies;
- k. Directors or officers salary;
- 1. Office rental fees (including storage space rental);
- m. Publications & periodicals;
- n. Merit awards and bonuses;
- o. Employee worksite parking;
- p. Entertainment; Gifts and prizes; Food and refreshments;
- q. Audio visual equipment;
- r. Advertising costs;
- s. Communication costs incurred for telephone calls, postage, and similar services. Purchase of communication devices such as pagers, cell phones, personal data assistants (PDAs);
- Computers (unless unique to the project & specifically approved in the work program).



2003

AUGUST - OCTOBER

- Resource Evaluation and state-wide site visits.
- Citizen Input Forum on Natural Resource funding priorities on web site. Over 475 responses were received.
- LCMR Commission & Citizen Advisory
 Committee joint Strategic Planning Seminar on priorities & criteria for Trust Fund expenditures
- Citizen Advisory Committee develop a draft strategic plan for the Trust Fund as advice to the LCMR.

NOVEMBER

The CAC presented recommended draft Strategic
 Plan for the Trust Fund to the LCMR Commission

DECEMBER

- LCMR adopted Strategic Plan & RFP for the Trust Fund
- The Request for Proposals (RFP) is issued electronically mid-December. RFP mailed end of December.

2004

FEBRUARY

February 20, 2004 at 4:30 p.m.

This is a firm deadline. Hard copies must be postmarked by or received at the LCMR office by 4:30 p.m. Faxed or e-mailed proposal will not be accepted.

MARCH—APRIL

• Staff and outside review of proposals—criteria applied and proposals scored and ranked.

PROCESS TIMELINE

MAY

- The CAC determine advice to the LCMR for proposals to be asked in for a presentation.
- LCMR initial review of proposals received.
- LCMR selects proposals for further review to be asked in for presentations. All proposers will be notified (first cut) whether or not they have been selected for further review.

JUNE - JULY

- Presentations on proposals selected for further review
- After presentations, CAC meets to determine advice to the LCMR for Trust Fund funding.
- LCMR meets to determine final recommendations to the 2005 Legislature.

SEPTEMBER

 Revised proposals are due to the LCMR on recommended projects.

OCTOBER—NOVEMBER

 Research projects are reviewed by an outside scientific peer review panel.

2005

JANUARY

• LCMR recommendations presented to the Legislature

FEBRUARY - APRIL

Legislative review and appropriation.

MAY—JUNE

- Final legislative actions on proposals, signed by governor
- LCMR meets to adopt work programs

<u>JULY</u>

• July 2005—June 2007: Project Implementation.

LCMR Staff:

John Velin, Director Susan Thornton Susan Von Mosch Sandy Smith

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Any suggestions or questions can be sent to the address below.

Phone:

651-296-2406

TTY:

651-296-9896 OR 1-800-657-3550

Fax:

651-296-1321

Email:

lcmr@commissions.leg.state.mn.us

Web Address: www.lcmr.leg.mn

MS 116P.08 TRUST FUND EXPENDITURES; EXCEPTIONS. .

Subdivision 1. **Expenditures.** Money in the trust fund may be spent ONLY for:

- (1) the reinvest in Minnesota program as provided in section 84.95, subdivision 2;
- (2) research that contributes to increasing the effectiveness of protecting or managing the state's environment or natural resources;
- (3) collection and analysis of information that assists in developing the state's environmental and natural resources policies;
- (4) enhancement of public education, awareness, and understanding necessary for the protection, conservation, restoration, and enhancement of air, land, water, forests, fish, wildlife, and other natural resources;
- (5) capital projects for the preservation and protection of unique natural resources;
- (6) activities that preserve or enhance fish, wildlife, land, air, water, and other natural resources that otherwise may be substantially impaired or destroyed in any area of the state;

- (7) administrative and investment expenses incurred by the state board of investment in investing deposits to the trust fund; and
- (8) administrative expenses subject to the limits in section 116P.09.

Subdivision 2. **Exceptions.** Money from the trust fund may not be spent for:

- (1) purposes of environmental compensation and liability under chapter 115B and response action under chapter 115C;
- (2) purposes of municipal water pollution control under the authority of chapters 115 and 116;
- (3) costs associated with the decommissioning of nuclear power plants;
- (4) hazardous waste disposal facilities;
- (5) solid waste disposal facilities; or
- (6) projects or purposes inconsistent with the strategic plan.

Legislative Commission on Minnesota Resources 100 Rev. Dr. Martin Luther King Jr. Blvd. Rm. 65 - State Office Building St. Paul, MN 55155

s company

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Sec. 14. ENVIRONMENT AND NATURAL RESOURCES FUND. A permanent environment and natural resources trust fund is established in the state treasury. Loans may be made of up to five percent of the principal of the fund for water system improvements as provided by law. The assets of the fund shall be appropriated by law for the public purpose of protection, conservation, preservation, and enhancement of the state's air, water, land, fish, wildlife, and other natural resources. The amount appropriated each year of a biennium, commencing on July 1 in each odd-numbered year and ending on and including June 30 in the next odd-numbered year, may be up to 5-1/2 percent of the market value of the fund on June 30 one year before the start of the biennium. Not less than 40 percent of the net proceeds from any state-operated lottery must be credited to the fund until the year 2025. [Adopted, November 8, 1988; Amended, November 6, 1990; November 3, 1998]

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Minnesota Statutes 2003, Chapter 116P.

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==116P.01

116P.01 Findings.

The legislature finds that all Minnesotans share the responsibility to ensure wise stewardship of the state's environment and natural resources for the benefit of current citizens and future generations. Proper management of the state's environment and natural resources includes and requires foresight, planning, and long-term activities that allow the state to preserve its high quality environment and provides for wise use of its natural resources. The legislature also finds that to undertake such activities properly, a long-term, consistent, and stable source of funding must be provided.

HIST: 1988 c 690 art 1 s 5

==116P.02

116P.02 Definitions.

Subdivision 1. Applicability. The definitions in this section apply to this chapter.

- Subd. 2. Advisory committee. "Advisory committee" means the advisory committee created in section 116P.06.
- Subd. 3. Board. "Board" means the state Board of Investment.
- Subd. 4. Commission. "Commission" means the Legislative Commission on Minnesota Resources.
- Subd. 5. Natural resources. "Natural resources" includes the outdoor recreation system under section 86A.04 and regional recreation open space systems as defined under section 473.351, subdivision 1.
- Subd. 6. Trust fund. "Trust fund" means the Minnesota environment and natural resources trust fund established under Minnesota Constitution, article XI, section 14.

HIST: 1988 c 690 art 1 s 6; 1989 c 335 art 1 s 269; 2003 c 128 art 1 s 146

==116P.03

116P.03 Trust fund not to supplant existing funding.

- (a) The trust fund may not be used as a substitute for traditional sources of funding environmental and natural resources activities, but the trust fund shall supplement the traditional sources, including those sources used to support the criteria in section 116P.08, subdivision 1. The trust fund must be used primarily to support activities whose benefits become available only over an extended period of time.
- (b) The commission must determine the amount of the state budget spent from traditional sources to fund environmental and natural resources activities before and after the trust fund is established and include a comparison of the amount in the report under section 116P.09, subdivision 7.

HIST: 1988 c 690 art 1 s 7

==116P.04

116P.04 Trust fund account.

Subdivision 1. Establishment of account and investment. A Minnesota environment and natural resources trust fund, under article XI, section 14, of the Minnesota Constitution, is established as an account in the state treasury. The commissioner of finance shall credit to the trust fund the amounts authorized under this section and section 116P.10. The state Board of Investment shall ensure that trust fund money is invested under section 11A.24. All money earned by the trust fund must be credited to the trust fund. The principal of the trust fund and any unexpended earnings must be invested and reinvested by the state Board of Investment.

- Subd. 2. Repealed, 1990 c 610 art 1 s 59
- Subd. 3. Revenue. Nothing in sections 116P.01 to 116P.12 limits the source of contributions to the trust fund.
- Subd. 4. Gifts and donations. Gifts and donations, including land or interests in land, may be made to the trust fund. Noncash gifts and donations must be disposed of for cash as soon as the board prudently can maximize the value of the gift or donation. Gifts and donations of marketable securities may be held or be disposed of for cash at the option of the board. The cash receipts of gifts and donations of cash or capital assets and marketable securities disposed of for cash must be credited immediately to the principal of the trust fund. The value of marketable securities at the time the gift or donation is made must be credited to the principal of the trust fund and any earnings from the marketable securities are earnings of the trust fund.
- Subd. 5. Audits required. The legislative auditor shall audit trust fund expenditures to ensure that the money is spent for the purposes provided in the commission's budget plan.

HIST: 1988 c 690 art 1 s 8; 1990 c 610 art 1 s 44; 1991 c 343 s 1

==116P.05

116P.05 Legislative Commission on Minnesota Resources.

Subdivision 1. Membership. (a) A Legislative Commission on Minnesota Resources of 20 members is created, consisting of the chairs of the house and senate committees on environment and natural resources or designees appointed for the terms of the chairs, the chairs of the house and senate committees on environment and natural resources finance or designees appointed for the terms of the chairs, the chairs of the house Ways and Means and Senate Finance Committees or designees appointed for the terms of the chairs, seven members of the senate appointed by the Subcommittee on Committees of the Committee on Rules and Administration, and seven members of the house appointed by the speaker.

At least three members from the senate and three members from the house must be from the minority caucus. Members are entitled to reimbursement for per diem expenses plus travel expenses incurred in the services of the commission.

(b) Members shall appoint a chair who shall preside and convene meetings as often as necessary to conduct duties

prescribed by this chapter.

- (c) Members shall serve on the commission until their successors are appointed.
- (d) Vacancies occurring on the commission shall not affect the authority of the remaining members of the commission to carry out their duties, and vacancies shall be filled in the same manner under paragraph (a).
- Subd. 2. Duties. (a) The commission shall recommend a budget plan for expenditures from the environment and natural resources trust fund and shall adopt a strategic plan as provided in section 116P.08.
- (b) The commission shall recommend expenditures to the legislature from the state land and water conservation account in the natural resources fund.
- (c) It is a condition of acceptance of the appropriations made from the Minnesota environment and natural resources trust fund, and oil overcharge money under section 4.071, subdivision 2, that the agency or entity receiving the appropriation must submit a work program and semiannual progress reports in the form determined by the Legislative Commission on Minnesota Resources. None of the money provided may be spent unless the commission has approved the pertinent work program.
- (d) The peer review panel created under section 116P.08 must also review, comment, and report to the commission on research proposals applying for an appropriation from the oil overcharge money under section 4.071, subdivision 2.
- (e) The commission may adopt operating procedures to fulfill its duties under chapter 116P.

HIST: 1988 c 690 art 1 s 9; 1989 c 335 art 1 s 269; 1990 c 594 art 1 s 56; 1991 c 254 art 2 s 39; 1991 c 343 s 2; 1993 c 4 s 15; 1994 c 580 s 1; 1997 c 202 art 2 s 36; 2003 c 128 art 1 s 147

==116P.06

116P.06 Advisory committee.

Subdivision 1. Membership. (a) An advisory committee of 11 citizen members shall be appointed by the governor to advise the Legislative Commission on Minnesota Resources on project proposals to receive funding from the trust fund and the development of budget and strategic plans. The governor shall appoint at least one member from each congressional district. The members shall elect the chair.

- (b) The governor's appointees must be confirmed with the advice and consent of the senate. The membership terms, compensation, removal, and filling of vacancies for citizen members of the advisory committee are governed by section 15.0575. Notwithstanding section 15.059, subdivision 5, or other law to the contrary, the advisory committee does not expire.
 - Subd. 2. Duties. (a) The advisory committee shall:
- (1) prepare and submit to the commission a draft strategic plan to guide expenditures from the trust fund;
 - (2) review the reinvest in Minnesota program during

development of the draft strategic plan;

- (3) gather public input during development of the draft strategic plan;
- (4) advise the commission on project proposals to receive funding from the trust fund; and
 - (5) advise the commission on development of the budget plan.
- (b) The advisory committee may review all project proposals for funding and may make recommendations to the commission on whether the projects:
- (1) meet the standards and funding categories set forth in sections 116P.01 to 116P.12;
- (2) duplicate existing federal, state, or local projects being conducted within the state; and
- (3) are consistent with the most recent strategic plan adopted by the commission.

HIST: 1988 c 690 art 1 s 10; 1989 c 335 art 1 s 269; 1991 c 254 art 2 s 40; 1991 c 343 s 3; 2001 c 161 s 18; 2002 c 225 s 1

==116P.07

116P.07 Information gathering.

The commission may convene public forums to gather information for establishing priorities for funding.

HIST: 1988 c 690 art 1 s 11; 1991 c 254 art 2 s 41; 1991 c 343 s 4; 2002 c 225 s 2

==116P.08

116P.08 Trust fund expenditures; exceptions; plans.

Subdivision 1. Expenditures. Money in the trust fund may be spent only for:

- (1) the reinvest in Minnesota program as provided in section 84.95, subdivision 2;
- (2) research that contributes to increasing the effectiveness of protecting or managing the state's environment or natural resources;
- (3) collection and analysis of information that assists in developing the state's environmental and natural resources policies;
- (4) enhancement of public education, awareness, and understanding necessary for the protection, conservation, restoration, and enhancement of air, land, water, forests, fish, wildlife, and other natural resources;
- (5) capital projects for the preservation and protection of unique natural resources;
- (6) activities that preserve or enhance fish, wildlife, land, air, water, and other natural resources that otherwise may be substantially impaired or destroyed in any area of the state;
- (7) administrative and investment expenses incurred by the state Board of Investment in investing deposits to the trust

fund; and

- (8) administrative expenses subject to the limits in section 116P.09.
- Subd. 2. Exceptions. Money from the trust fund may not be spent for:
- (1) purposes of environmental compensation and liability under chapter 115B and response actions under chapter 115C;
- (2) purposes of municipal water pollution control under the authority of chapters 115 and 116;
- (3) costs associated with the decommissioning of nuclear power plants;
 - (4) hazardous waste disposal facilities;
 - (5) solid waste disposal facilities; or
- (6) projects or purposes inconsistent with the strategic plan.
- Subd. 3. Strategic plan required. (a) The commission shall adopt a strategic plan for making expenditures from the trust fund, including identifying the priority areas for funding for the next six years. The strategic plan must be updated every two years. The plan is advisory only. The commission shall submit the plan, as a recommendation, to the house of representatives appropriations and senate finance committees by January 1 of each odd-numbered year.
- (b) The commission may accept or modify the draft of the strategic plan submitted to it by the advisory committee before voting on the plan's adoption.
- Subd. 4. Budget plan. (a) Funding may be provided only for those projects that meet the categories established in subdivision 1.
- (b) Projects submitted to the commission for funding may be referred to the advisory committee for recommendation.
- (c) The commission must adopt a budget plan to make expenditures from the trust fund for the purposes provided in subdivision 1. The budget plan must be submitted to the governor for inclusion in the biennial budget and supplemental budget submitted to the legislature.
- (d) Money in the trust fund may not be spent except under an appropriation by law.
- Subd. 5. Public meetings. All advisory committee and commission meetings must be open to the public. The commission shall attempt to meet at least once in each of the state's congressional districts during each biennium.
- Subd. 6. Peer review. (a) Research proposals must include a stated purpose, timeline, potential outcomes, and an explanation of the need for the research. All research proposals must be reviewed by a peer review panel before receiving an appropriation.
- (b) In conducting research proposal reviews, the peer review panel shall:

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- (1) comment on the methodology proposed and whether it can be expected to yield appropriate and useful information and data;
- (2) comment on the need for the research and about similar existing information available, if any; and
- (3) report to the commission and advisory committee on clauses (1) and (2).
- (c) The peer review panel also must review completed research proposals that have received an appropriation and comment and report upon whether the project reached the intended goals.
- Subd. 7. Peer review panel membership. (a) The peer review panel must consist of at least five members who are knowledgeable in general research methods in the areas of environment and natural resources. Not more than two members of the panel may be employees of state agencies in Minnesota.
- (b) The commission shall select a chair every two years who shall be responsible for convening meetings of the panel as often as is necessary to fulfill its duties as prescribed in this section. Compensation of panel members is governed by section 15.059, subdivision 3.

HIST: 1988 c 690 art 1 s 12; 1989 c 335 art 1 s 178; 1991 c 254 art 2 s 42,43; 1991 c 343 s 5,6; 1994 c 580 s 2,3; 2001 c 7 s 31

==116P.09

116P.09 Administration.

- Subdivision 1. Administrative authority. The commission may appoint legal and other personnel and consultants necessary to carry out functions and duties of the commission. Permanent employees shall be in the unclassified service. In addition, the commission may request staff assistance and data from any other agency of state government as needed for the execution of the responsibilities of the commission and advisory committee and an agency must promptly furnish it.
- Subd. 2. Liaison officers. The commission shall request each department or agency head of all state agencies with a direct interest and responsibility in any phase of environment and natural resources to appoint, and the latter shall appoint for the agency, a liaison officer who shall work closely with the commission and its staff.
- Subd. 3. Appraisal and evaluation. The commission shall obtain and appraise information available through private organizations and groups, utilizing to the fullest extent possible studies, data, and reports previously prepared or currently in progress by public agencies, private organizations, groups, and others, concerning future trends in the protection, conservation, preservation, and enhancement of the state's air, water, land, forests, fish, wildlife, native vegetation, and other natural resources. Any data compiled by the commission shall be made available to any standing or interim committee of the legislature upon the request of the chair of the respective committee.
- Subd. 4. Personnel. Persons who are employed by a state agency to work on a project and are paid by an

appropriation from the trust fund are in the unclassified civil service, and their continued employment is contingent upon the availability of money from the appropriation. When the appropriation has been spent, their positions must be canceled and the approved complement of the agency reduced accordingly. Part-time employment of persons for a project is authorized. The use of classified employees is authorized when approved as part of the work program required by section 116P.05, subdivision 2, paragraph (c).

- Subd. 5. Administrative expense. The prorated expenses related to commission administration of the trust fund may not exceed an amount equal to four percent of the amount available for appropriation of the trust fund for the biennium.
- Subd. 6. Conflict of interest. A commission member, advisory committee member, peer review panelist, or an employee of the commission may not participate in or vote on a decision of the commission, advisory committee, or peer review panel relating to an organization in which the member, panelist, or employee has either a direct or indirect personal financial interest. While serving on the legislative commission, advisory committee, or peer review panel, or being an employee of the commission, a person shall avoid any potential conflict of interest.
- Subd. 7. Report required. The commission shall, by January 15 of each odd-numbered year, submit a report to the governor, the chairs of the house appropriations and senate finance committees, and the chairs of the house and senate committees on environment and natural resources. Copies of the report must be available to the public. The report must include:
 - (1) a copy of the current strategic plan;
- (2) a description of each project receiving money from the trust fund during the preceding biennium;
- (3) a summary of any research project completed in the preceding biennium;
- (4) recommendations to implement successful projects and programs into a state agency's standard operations;
- (5) to the extent known by the commission, descriptions of the projects anticipated to be supported by the trust fund during the next biennium;
- (6) the source and amount of all revenues collected and distributed by the commission, including all administrative and other expenses;
- (7) a description of the assets and liabilities of the trust fund;
- (8) any findings or recommendations that are deemed proper to assist the legislature in formulating legislation;
- (9) a list of all gifts and donations with a value over \$1,000;
- (10) a comparison of the amounts spent by the state for environment and natural resources activities through the most recent fiscal year; and
 - (11) a copy of the most recent compliance audit.

HIST: 1988 c 690 art 1 s 13; 1991 c 254 art 2 s 44-46; 1991 c 343 s 7-10; 1994 c 580 s 4; 2003 c 128 art 1 s 148-150

==116P.10

116P.10 Royalties, copyrights, patents.

This section applies to projects supported by the trust fund and the oil overcharge money referred to in section 4.071, subdivision 2, each of which is referred to in this section as a "fund." The fund owns and shall take title to the percentage of a royalty, copyright, or patent resulting from a project supported by the fund equal to the percentage of the project's total funding provided by the fund. Cash receipts resulting from a royalty, copyright, or patent, or the sale of the fund's rights to a royalty, copyright, or patent, must be credited immediately to the principal of the fund. Receipts from Minnesota future resources fund projects must be credited to the trust fund. Before a project is included in the budget plan, the commission may vote to relinquish the ownership or rights to a royalty, copyright, or patent resulting from a project supported by the fund to the project's proposer when the amount of the original grant or loan, plus interest, has been repaid to the fund.

HIST: 1988 c 690 art 1 s 14; 1993 c 172 s 79; 2003 c 128 art 1 s 151

==116P.11

116P.11 Availability of funds for disbursement.

- (a) The amount biennially available from the trust fund for the budget plan developed by the commission is as defined in the Minnesota Constitution, article XI, section 14.
- (b) Any appropriated funds not encumbered in the biennium in which they are appropriated cancel and must be credited to the principal of the trust fund.

HIST: 1988 c 690 art 1 s 15; 1990 c 594 art 1 s 57; 1990 c 612 s 14; 1992 c 513 art 2 s 27; 1992 c 539 s 10; 1993 c 300 s 10; 1994 c 580 s 5; 1995 c 220 s 111; 2002 c 225 s 3

==116P.12

116P.12 Water system improvement loan program.

Subdivision 1. Loans authorized. (a) If the principal of the trust fund equals or exceeds \$200,000,000, the commission may vote to set aside up to five percent of the principal of the trust fund for water system improvement loans. The purpose of water system improvement loans is to offer below market rate interest loans to local units of government for the purposes of water system improvements.

- (b) The interest on a loan shall be calculated on the declining balance at a rate four percentage points below the secondary market yield of one-year United States treasury bills calculated according to section 549.09, subdivision 1, paragraph (c).
- (c) An eligible project must prove that existing federal or state loans or grants have not been adequate.
- (d) Payments on the principal and interest of loans under this section must be credited to the trust fund.

- (e) Repayment of loans made under this section must be completed within 20 years.
- (f) The Minnesota public facilities authority must report to the commission each year on the loan program under this section.
- Subd. 2. Application and administration. (a) The commission must adopt a procedure for the issuance of the water system improvement loans by the public facilities authority.
- (b) The commission also must ensure that the loans are administered according to its fiduciary standards and requirements.

HIST: 1988 c 690 art 1 s 16

==116P.13

116P.13 Minnesota future resources fund.

Subdivision 1. Revenue sources. The money in the Minnesota future resources fund consists of revenue credited under section 297F.10, subdivision 1, paragraph (b), clause (1).

- Subd. 2. Interest. The interest attributable to the investment of the Minnesota future resources fund must be credited to the fund.
- Subd. 3. Revenue purposes. Revenue in the Minnesota future resources fund may be spent for purposes of natural resources acceleration and outdoor recreation, including but not limited to the development, maintenance, and operation of the state outdoor recreation system under chapter 86A and regional recreation open space systems as defined under section 473.351, subdivision 1.

HIST: 1988 c 690 art 1 s 17; 1989 c 335 art 1 s 179; 1997 c 106 art 2 s 4

==116P.14

116P.14 Federal land and water conservation funds.

Subdivision 1. Designated agency. The Department of Natural Resources is designated as the state agency to apply for, accept, receive, and disburse federal reimbursement funds and private funds, which are granted to the state of Minnesota from section 6 of the federal Land and Water Conservation Fund Act.

- Subd. 2. State land and water conservation account; creation. A state land and water conservation account is created in the natural resources fund. All of the money made available to the state from funds granted under subdivision 1 shall be deposited in the state land and water conservation account.
- Subd. 3. Local share. Fifty percent of all money made available to the state from funds granted under subdivision 1 shall be distributed for projects to be acquired, developed, and maintained by local units of government, providing that any project approved is consistent with a statewide or a county or regional recreational plan and compatible with the statewide recreational plan. All money received by the commissioner for local units of government is appropriated annually to carry out the purposes for which the funds are received.

Subd. 4. State share. Fifty percent of the money made available to the state from funds granted under subdivision 1 shall be used for state land acquisition and development for the state outdoor recreation system under chapter 86A and the administrative expenses necessary to maintain eligibility for the federal Land and Water Conservation Fund.

HIST: 1Sp2001 c 2 s 140; 2003 c 128 art 1 s 152,153

==116P.15

116P.15 Land acquisition restrictions.

Subdivision 1. Scope. A recipient of an appropriation from the trust fund or the Minnesota future resources fund who acquires an interest in real property with the appropriation must comply with this section. If the recipient fails to comply with the terms of this section, ownership of the interest in real property transfers to the state. For the purposes of this section, "interest in real property" includes, but is not limited to, an easement or fee title to property.

- Subd. 2. Restrictions; modification procedure. (a) An interest in real property acquired with an appropriation from the trust fund or the Minnesota future resources fund must be used in perpetuity or for the specific term of an easement interest for the purpose for which the appropriation was made.
- (b) A recipient of funding who acquires an interest in real property subject to this section may not alter the intended use of the interest in real property or convey any interest in the real property acquired with the appropriation without the prior review and approval of the commission. The commission shall establish procedures to review requests from recipients to alter the use of or convey an interest in real property. These procedures shall allow for the replacement of the interest in real property with another interest in real property meeting the following criteria:
- (1) the interest is at least equal in fair market value, as certified by the commissioner of natural resources, to the interest being replaced; and
- (2) the interest is in a reasonably equivalent location, and has a reasonably equivalent usefulness compared to the interest being replaced.
- (c) A recipient of funding who acquires an interest in real property under paragraph (a) must separately record a notice of funding restrictions in the appropriate local government office where the conveyance of the interest in real property is filed. The notice of funding agreement must contain:
- (1) a legal description of the interest in real property covered by the funding agreement;
 - (2) a reference to the underlying funding agreement;
 - (3) a reference to this section; and
 - (4) the following statement:

"This interest in real property shall be administered in accordance with the terms, conditions, and purposes of the grant agreement or work program controlling the acquisition of the property. The interest in real property, or any portion of the

interest in real property, shall not be sold, transferred, pledged, or otherwise disposed of or further encumbered without obtaining the prior written approval of the Legislative Commission on Minnesota Resources or its successor. If the holder of the interest in real property fails to comply with the terms and conditions of the grant agreement or work program, ownership of the interest in real property shall transfer to this state."

HIST: 1Sp2001 c 2 s 141; 2002 c 225 s 4

Minnesota Statutes 2003, Table of Chapters

Table of contents for Chapter 116Q

116Q.02 State receipts from the fund.

Subdivision 1. Great Lakes protection account. Any money received by the state from the Great Lakes protection fund, whether in the form of annual earnings or otherwise, must be deposited in the state treasury and credited to a special Great Lakes protection account. Money in the account must be spent only as specifically appropriated by law for protecting water quality in the Great Lakes. Approved purposes include, but are not limited to, supplementing in a stable and predictable manner state and federal commitments to Great Lakes water quality programs by providing grants to finance projects that advance the goals of the regional Great Lakes toxic substances control agreement and the binational Great Lakes water quality agreement.

Subd. 2. LCMR review. The legislature intends not to appropriate money from the Great Lakes protection account until projects have been reviewed and recommended by the Legislative Commission on Minnesota Resources. A work plan must be prepared for each project for review by the commission. The commission must recommend specific projects to the legislature.

HIST: 1990 c 594 art 1 s 59

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Minnesota Statutes 2003, Table of Chapters

Table of contents for Chapter 4

4.071 Oil overcharge money.

Subdivision 1. Appropriation required. "Oil overcharge money" means money received by the state as a result of litigation or settlements of alleged violations of federal petroleum pricing regulations. Oil overcharge money may not be spent until it is specifically appropriated by law.

Subd. 2. Minnesota resources projects. The legislature intends to appropriate one-half of the oil overcharge money for projects that have been reviewed and recommended by the Legislative Commission on Minnesota Resources. A work plan must be prepared for each proposed project for review by the commission. The commission must recommend specific projects to the legislature.

Subd. 3. Repealed, 1998 c 273 s 15

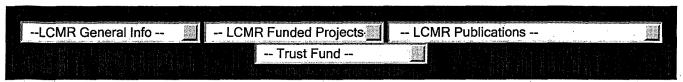
HIST: 1988 c 686 art 1 s 36; 1988 c 690 s 1; 1989 c 335 art 1 s 269; 1990 c 568 art 2 s 1; 1994 c 483 s 1

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II. Project Description

"a description of each project receiving money from the trust fund during the preceding biennium; a summary of any research project completed in the preceding biennium..."

The following documents are short abstracts for projects funded during the 2002 - 2003 biennium. The abstracts describe the general accomplishments of each project Research projects have been marked as such in the description. Full workprograms are available at the LCMR office Room 65, State Office Building. The abstracts are current as of 12/30/04.



LCMR 2001 PROJECT ABSTRACTS

<u>Laws 2001, First Special Session, Chapter 2</u> Section 14 (July 1, 2001 through June 30, 2003) Environment and Natural Resources Trust Fund (TF) Future Resources Fund (FRF)
Oil Over Charge (OOC)
Great Lakes Protection Account (GLP)

The following documents are short abstracts for projects funded during the 2002-2003 biennium. The final date of completion for these projects is listed at the end of the abstract. When available, we have provided links to the programs web site. The sites listed on this page are not created, maintained, or endorsed by the Minnesota Legislature. If you would like further information about specific projects, please contact the appropriate program manager at the address or phone number listed.

Subd. 3 Administration

03a Legislative Commission on Minnesota Resources 03b Pass Through Administration

03c LAWCON administration

Subd. 4 Fish and Wildlife Habitat

04a Forest and Prairie Stewardship of Private Lands

04b State Fish Hatchery Rehabilitation

04c Enhancing Canada Goose Hunting and Management

04d Biological Control of Eurasian Watermilfoil and Purple Loosestrife-Continuation - RESEARCH

04e Restoring Minnesota's Fish and Wildlife Habitat Corridors

04f Engineering Support for Public Lands Waterfowl Projects

04g Metro Greenways

04h Acquisition of Lands as Scientific and Natural Areas

04i Big Rivers Partnership: Helping Communities to Restore Habitat

04j Acquisition and Restoration of Eagle Creek's Last Private Land

04k Neighborhood Wilds Program

Subd. 5 Recreation

05a Metropolitan Regional Parks Acquisition, Rehabilitation and Development

05b Local Grants Initiative Program Outdoor Recreation Grants

05c Regional and Local Trail Grants (Part of Local Grants Initiative)

05d Outdoors for Everyone: Accessing Recreational Trails and Facilities

05e Water Recreation: Boat Access, Fishing Piers and Shorefishing

05f Grays Bay, Lake Minnetonka Public Water Access

05g McQuade Small Craft Harbor

05h Land Acquisition at the Minnesota Landscape Arboretum

05i Gateway Trail Bridge

05j State Trail Projects

05k Gitchi Gami State Trail

05l Forest History Center Interpretive Trail

05m Mesabi Trail Facility

05n Regional Trailhead Building

05o Development and Rehabilitation of Recreational Shooting Ranges

05p State Park & Recreation Area Land Acquisition

05q LAWCON

Subd. 6 Water Resources

06a Accelerated Implementation of Local Water Plans

06c Denitrification Strategies for Minnesota's Contaminated Aquifers - RESEARCH

06d Determination of Fecal Pollution Sources in Minnesota Watersheds- RESEARCH

06e Mississippi Headwaters Board Environmental Economic Assessments

Subd. 7 Land Use and Natural Resource Info

07a Hydraulic Impacts of Quarries and Gravel Pits - RESEARCH

07b GIS Management in Koochiching County

07c Updating Outmoded Soil Surveys-Continuation

07d County Biological Survey-Continuation

07e Lake Superior Lakewide Management Plan (LaMP)

Subd. 8 Agriculture and Natural Resource Industries

08a Evaluating Timber Harvesting and Forest Management Guidelines - RESEARCH

08b Agricultural Land Preservation

08c Environmental Practices on Dairy Farms

08d Accelerated Technology Transfer for Starch-Based Plastics - RESEARCH

Subd. 9 Energy

09 Using Biodiesel in Generators

Subd. 10 Environmental Education

10b WaterScapes: Outdoor Non-Point Source Pollution Education

10c Sustainable Inner- City Communities through Environmental Literacy

10d Integrated Pest Management in Schools

10e Burn, Plant and Learn: Restoring Upland Habitats - partial RESEARCH

10f Connecting with Wildlife at the Minnesota Zoo

10g Project Green Start: Environmental Education

10h Raptor Propagation: Student Education

10i Hennepin Parks Farm Education

10j Residential Environmental Education for Youth

2002 Appropriation

ML 2002, Chapter 220, Section 8, Subd. 1 - Uncommon Ground: An Educational Television Series

Funding Sources:

Environment and Natural Resources Trust Fund (TF)

Future Resources Fund (FRF)

Oil Overcharge (OOC)

Great Lakes Protection Account (GLP)

ADMINISTRATION

LEGISLATIVE COMMISSION ON MINNESOTA RESOURCES

3 (a) \$1,065,000 TF/MFRF

John Velin, Director

LCMR

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Web Address: http://www.commissions.leg.state.mn.us/lcmr/lcmr.htm

The LCMR Administrative Budget, including budget for Citizen Advisory Committee (CAC) expenses.

PASS THROUGH ADMINISTRATION

3 (b) \$150,000 TF/MFRF Bill Becker DNR, Office of Management and Budget Services 500 Lafayette Road St. Paul, MN 55155 Telephone:(651) 296-3093

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E-mail: bill.becker@dnr.state.mn.us

Overall Project Outcome and Results

To administer this program DNR staff redesigned and improved LCMR agreement forms and related. Improvements include addition of an appendix showing required actions to acquire land with LCMR funds, an updated agreement conforming to statutes and revisions of confusing passages. DNR developed and delivered information to recipients ensuring recipients have the knowledge necessary to comply with LCMR and other state regulations. Staff reached sub-recipients, such as the US Fish and Wildlife Service, as well as initial pass through recipients. Staff met personally with each project manager and their fiscal staff, providing them with a draft manual. That manual reached final form in the fall of 2003.

A few recipients failed to comply with requirements. Improper claims for reimbursement were rejected. DNR acted to guarantee a clear hearing of recipient problems. When possible staff resolved the problem. Sometimes staff helped recipients articulate their issues with LCMR staff and cooperatively work out a solution. Examples include cash flow issue resolution, developing supporting materials enabling reimbursement of lumped expenses, and developing rationale to support stipend reimbursement.

DNR implemented a program guaranteeing quick payment of requests for reimbursement that reimburse only allowable expenses. Generally expenses are reimbursed in a day or two.

Finally, DNR reconciled the expenditures in a major appropriation to enable the recipient's efforts to make the state whole regarding a number of LCMR and DNR program allocations to the recipient. In addition the staff reviewed other recipients' claims resolving issues regarding indirect and unsupported expenditures.

Project Results Use and Dissemination

The results of this project are used and disseminated through written materials such as manuals and forms. Staff meets personally with recipients, contacts them frequently by e-mail and phone and provides information at meetings arranged for by LCMR staff.

This project completed June 30, 2004.

LAWCON ADMINISTRATION

3 (c) \$320,000 MFRF Wayne Sames DNR, Office of Management and Budget Services 500 Lafayette Road St. Paul, MN 55155 Telephone:(651) 296-1567 Fax: (651)296-6047

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To the commissioner of natural resources for administrative expenses consistent with Minnesota Statutes, section 116P.14. See 5(q) below for details on the LAWCON project facilities funded.

This project completed June 30, 2004.

FISH AND WILDLIFE HABITAT

FOREST AND PRAIRIE STEWARDSHIP OF PRIVATE LANDS

4(a) \$545,000 TF Doug Anderson **DNR** 500 Lafavette Road St. Paul. MN 55155-4044 Telephone: (651) 296-4467 Fax: (651) 296-5954

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Overall Project Outcome and Results

This project was highly successful in providing management plans for 190 private forest landowners on 19,750 acres and 40 private prairie landowners on 4,166 acres. These plans are the foundation for protecting the forest and prairie resources on private lands in Minnesota.

The plans also provide direction for enhancement of these resources by cost shared management activities on the land. On the prairie lands, the landowners become eligible for prairie habitat assistance through the Landowner Incentive Program for Prairie Species at Risk, and other conservation programs.

The forest portion of the project included funding for cost share practices. This portion funded 3298 acres of tree and shrub planting and seeding; 1076 acres of forest stand improvement; 1167 acres of planting site preparation; 18 acres of grass seeding; 2739 feet of fencing; creation of 2 wetlands, 2 wildlife openings and 6 wildlife water facilities. 50% of this was funded by the owners as a cost share match. The plans also made this forested land eligible for additional cost share projects.

Project Results Use and Dissemination

This program involves private forestry consultants, Soil and Water Conservation Districts, forest industry, The Nature Conservancy, the US Forest Service, the Minnesota Forestry Association and other conservation groups. Information about it has been disseminated through forestry publications, brochures handed out at fairs and events, and through web sites. Considerable information travels by word of mouth as well.

This project completed June 30, 2004.

STATE FISH HATCHERY REHABILITATION

4(b) \$145,000 MFRF Linda Erickson-Eastwood & Darryl Bathel DNR 500 Lafayette Road St. Paul, MN 55155 Telephone: (651) 296-0791 Fax: (651) 297-4916

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Overall Project Outcome and Results

This project resulted in the improvement and maintenance of the Minnesota Department of Natural Resources, Division of Fish and Wildlife's Lanesboro Hatchery so that rainbow trout and brown trout can continue to be stocked in trout waters statewide. The work that was done included the following two projects.

- 1. Design and construction of a cover and sides to enclose the brood stock raceways. This provided the State's rainbow trout and brown trout brood fish low light conditions for a more comfortable environment and protection from predators. This structure also provided a much improved work environment for employees for handling and spawning these brood fish. (Photos attached)
- 2. Design and construction of eight new concrete raceways. This project allows for better employee access to these raceways making feeding, cleaning and fish removal chores more efficient. The raceways also facilitate public viewing of the fish held in the raceways. (Photos attached)

The hatchery rehabilitation program exists to improve and maintain statewide facilities for fish culture, rearing, and holding. There are 17 fish hatcheries statewide including 5 coldwater hatcheries that provide trout and salmon and 12 warmwater hatcheries that provide walleye, muskellunge, channel catfish, and smallmouth bass. Approximately 1,333 lakes and 125 streams are stocked with fish raised at these facilities.

This project completed June 30, 2004.

ENHANCING CANADA GOOSE HUNTING AND MANAGEMENT

4(c) \$340,000 MFRF

**Bill Becker

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Overall Project Outcome and Results

This project piloted the notion that paying people who own land near concentrations of nuisance geese to allow hunters on their land to hunt the nuisance geese would be a good way to thin nuisance goose flocks and provide recreation opportunity. The key resource management problem addressed stems from the fact that farmers near goose concentrations suffer economic harm from crop depredation by geese. The project also included measuring willingness to pay for the hunting experience, so as to ascertain whether this could be self-financing.

The project was conducted during two early season nuisance goose hunts and included landowners statewide, but concentrated near nuisance flocks in the Grand Rapids area, west central Minnesota, and southeast Minnesota. Landowners were paid to allow hunters on their land to hunt geese, and to leave forage crops for geese. Over the two seasons an estimated 2,000 to 2,700 nuisance geese were taken. Hunters surveyed were willing to pay \$11.50 per day per hunter to gain access to the land. The leases paid the landowner \$500 per season per set-up area for a hunting group. All in all the hunters were moderately satisfied, rating their hunting experience as medium to good (2.4) on a five point

scale where 1= very poor and 5 = excellent.

Anecdotally, DNR field representatives found this to be a positive way to work with landowners suffering crop depredation by geese.

Project Results Use and Dissemination

The pilot project is complete. The legislature was contacted about continuing the program using other funds. No additional funds were appropriated.

This completed June 30, 2004.

** as amended in ML 2003.

BIOLOGICAL CONTROL OF EURASIAN WATERMILFOIL AND PURPLE LOOSESTRIFE-CONTINUATION

4(d) \$90,000 TF
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RESEARCH

Overall Project Outcome and Results

The purpose of this research was to evaluate biological controls for Eurasian watermilfoil, *Myriophyllum spicatum*, and purple loosestrife, *Lythrum salicaria*, two exotic aquatic plants that are degrading Minnesota's aquatic resources statewide. Researchers found that the milfoil weevil, *Euhrychiopsis lecontei*, can cause sustained declines of the invasive, non-native Eurasian watermilfoil if sufficient densities of the insect are maintained throughout the summer each year. Unfortunately, in many lakes, weevils do not reach adequate densities, or their densities do not persist through the summer over several years, to sustain control. In many lakes, sunfish appear to limit densities of the milfoil weevil, and so prevent sustained declines in Eurasian watermilfoil. Also, sustained control of this non-native plant is likely to require an increase in rooted native plants following reductions in the amount of the invasive species. For a complete description of the Eurasian watermilfoil research, see Newman (2004).

Evaluation of purple loosestrife biological control found that the leaf-beetles, *Galerucella* spp., can provide long-term control of purple loosestrife. As purple loosestrife populations were reduced, the diversity of other plant species increased (Skinner et al.2004). *Galerucella* ssp. populations fluctuate over time in response to purple loosestrife abundance. At some sites, the leaf beetle populations declined and have not rebounded, suggesting control may vary depending on a number of factors *Galerucella* spp. did not impact two native Lythrum species. Although *Galerucella* larvae were present and some feeding observed on swamp and winged loosestrife, plant growth or reproductive parameters were not affected (Stamm Katovich et al. 2004). *Galerucella* spp. can readily disperse and colonize purple loosestrife infestations within wetlands and across landscapes. *Galerucella* spp. on average, dispersed 5 km to new purple loosestrife infestations within 3 years. The maximum dispersal distance recorded was 20 km. Beetles were found in 85% non-release sites visited (McCornack et al. 2004).

Project Results Use and Dissemination

Results of this project will be published in peer-reviewed scientific journals and also in special

publications and newsletters. Results also will be presented at national, regional and state scientific meetings to peers in the field, as well as to resource managers and planners who will use the results of this project. Currently, the research results are used in decision making for management activities in the state. For example, recent results provide guidance for releasing purple loosestrife control agents and what to expect after release. A list of future publications can be found in the final report.

This project completed June 30, 2004.

RESTORING MINNESOTA'S FISH AND WILDLIFE HABITAT CORRIDORS

4(e) \$11,745,000 TF **Matt Holland Pheasants Forever 679 W. River Drive New London, MN 56273 Telephone: 320-354-4377 Fax: 320-354-4377

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For acceleration of agency programs and cooperative agreements with eleven other organizations (Minnesota Deer Hunters Association, Ducks Unlimited, Inc., National Wild Turkey Federation, Pheasants Forever, The Nature Conservancy, Minnesota Land Trust, Trust for Public Land, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, Natural Resources Conservation Service, and the U.S. Forest Service), to restore and acquire fragmented landscape corridors that connect areas of quality habitat to sustain fish, wildlife, and plants.

This project due to be completed June 30, 2005. ** as amended in ML 2004.

ENGINEERING SUPPORT FOR PUBLIC LANDS WATERFOWL PROJECTS

4(f) \$275,000 MFRF Tom Landwehr Ducks Unlimited, Inc. 5824 Churchill Street Shoreview, MN 55126 Telephone:(651) 283-3838

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Overall Project Outcome and Results

Ducks Unlimited (DU) staff provided survey, engineering design, construction management and other technical assistance services to DNR and US Fish and Wildlife Service on 24 wetland projects encompassing more than 4,500 acres. Additionally, DU worked with DNR and other partners to identify funding sources for completing most of these projects. To date, 8 of these projects have been completed (1,308 acres), 11 are in process for completion in the next 18 months (2,802 acres), and 5 are stalled indefinitely for a variety of reasons (410 acres). The projects are located throughout Minnesota. Since they are all on public land they provide several benefits, including: increased wildlife habitat, better public recreational opportunities, and increased management potential. Because funding for technical assistance is often a limiting factor - especially for projects in the feasibility stage - these funds helped catalyze many of these projects. At least \$572,899 of additional funding for projects was secured by DU to date, and completion of these 24 projects will involve many hundreds of thousands of other dollars – all leveraged by the appropriation.

This project completed June 30, 2003.

METRO GREENWAYS

4(g) 2,730,000 TF Peggy Booth DNR 1200 Warner Rd St. Paul, MN 55106 Telephone 651/772-7562

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Web Address: http://www.dnr.state.mn.us/greenprint/metro-green.html

Overall Project Outcome and Results

The goal of Metro Greenways is to protect, connect and restore a metro-wide network of significant natural areas and open spaces. Though administered and coordinated by the DNR, Metro Greenways relies on partnerships with a wide range of nonprofit conservation organizations, government agencies, and private landowners to achieve this goal.

Many local governments lack the staff, expertise, and resources to adequately assess and protect significant natural resources located within their boundaries. By focusing much of its effort on encouraging and assisting local conservation initiatives, Metro Greenways empowers communities to protect and improve the natural resources that are important to them. At the same time, the coordinated seven-county scope assures that individual projects contribute to a regional network of green spaces and natural areas.

The two primary components of this project were:

1. Natural Resource Planning Grants:

Metro Greenways awarded 11 planning grants to local governments to inventory and assess 241,474 acres of land for natural resource protection and restoration opportunities. Trust funds totaling \$219,808 leveraged an additional \$335,148 in local and other state funds.

The natural resources information, plans and partnerships developed through these planning grant projects engaged local citizens and government officials in natural resource planning and decision-making and built local support for the vision of a regional network of natural areas, parks, and other open space.

2. Land Protection and Restoration:

Metro Greenways also provided technical and financial assistance to augment other federal, state, regional and local efforts to protect and improve significant natural areas. Four parcels totaling 221 acres were acquired in fee, and six parcels totaling 178 acre were permanently protected with the acquisition of conservation easements. In addition, a 40-acre tract of rare sand prairie was restored. Metro Greenways funds of \$2,509,443 leveraged an additional \$6,954,294 of private, local, federal and other state funds to help complete these projects.

This project completed June 30, 2004.

ACQUISITION OF LANDS AS SCIENTIFIC AND NATURAL AREAS

4(h) 455,000 TF Bob Djupstrom DNR

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Funding provided to acquire Scientific and Natural Areas (SNA) this biennium used to acquire critical lands with plant communities such as native prairie and rare species habitat. A total of 30 landowners were contacted concerning land protection. Of these, 8 agreed to have an appriaisal conducted resulted in approximately 179 acres of land being acquired as SNAs with the Trust Fund. These lands were acquired at Prairie Coteau SNA in Pipestone County (92 acres), Sedan Brook SNA in Stearns County (40 acres), Cottonwood River Prairie SNA in Brown County (approx. 2 acres), and Pine Bend Bluffs SNA in Dakota County (45 of 118 acres with funds provided to SNA).

At least 4 other appraisals are underway as a result of landowner contacts made during this project. One of the parcels appraised during this period will be acquired with new funds in the metro area this biennium. In addition, due to contacts made during this acquisition project, another 2 landowners have since agreed to have appraisals conducted.

In summary, funds provided through the Trust Fund have been successfully used to protect critical tracts of land as State Scientific and Natural Areas for nature plant communities and rare plant and animal species. In addition, contact made with landowners during this period are resulting in new land appraisals that in turn will result in the protection of additional parcels of land with rare and unique natural resources, in the future.

This project completed June 30, 2003.

BIG RIVERS PARTNERSHIP: HELPING COMMUNITIES TO RESTORE HABITAT

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Overall Project Outcome and Results

Led by Great River Greening, the Big Rivers Partnership is one of the first important restoration collaborations in the state, bringing together nonprofit, government and private landowners to restore river valley habitat in the Twin Cities. Guided by ecological and resource criteria, projects were located within the important and beautiful Mississippi River Gorge running through Minneapolis and Saint Paul: the Pine Bend Bluff Natural Area, a regionally significant ecological resource on the urban Mississippi; the Minnesota River Valley, a critical and unmatched urban corridor of wetland and associated upland habitat; and numerous native plant community remnants. Projects consisted of plant and animal surveys and restoration activities that regularly engaged volunteers. More than 3,600 volunteers participated in habitat projects, triple the goal. The partnership also leveraged over \$1.3 million in non-state funds, almost double the goal, and implemented restoration on over 1,500 acres, 150% of the goal.

Project Results Use and Dissemination

Great River Greening lists projects and surveys on its website, promoting them to partners, cooperators, and landowners. Where possible, we work with cooperators to continue stewardship beyond state funding with volunteers or other community members. The Partnership also completed an ecological ranking of sites within the river valleys to complement the regionally significant areas identified by the Minnesota Department of Natural Resources and disseminated the ranking information through various conservation forums. The success of the project proves that multiple organizations can work together to achieve conservation goals.

This project completed June 30, 2004.

ACQUISITION AND RESTORATION OF EAGLE CREEK'S LAST PRIVATE LAND

4(j) \$910,000 MFRF Ann Mahnke City of Savage 13770 Dakota Avenue Savage, MN 55378 Telephone: (612) 447-8333

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Overall Project Outcome and Results

The City of Savage acquired 16.45 acres of land bordering Eagle Creek, one of the last naturally producing brown trout streams in the metropolitan area. This land was the last privately owned parcel within the Eagle Creek corridor and for over 35 years was the site of warehouse, shop, open storage and other industrial uses that were incompatible with the state designated trout stream. In cooperation with the DNR, who owns all other riparian parcels along the creek, the City of Savage deeded over approximately 11 acres of land for inclusion into the Eagle Creek Aquatic Management Area. The total corridor now consists of approximately 80 acres and includes the east and west branches as well as the headwaters of Eagle Creek.

The City of Savage contributed approximately \$3.5 million for the purpose of acquiring the entire property. The city used condemnation proceedings to acquire the property along with two commercial buildings on site. The use of condemnation, although successful in meeting the ultimate goal, was much more costly than the city anticipated. Several businesses that were tenants on site had to be relocated and the city had to pay for those relocation costs. In addition, site improvement costs were bore by the city in order to bring the property into compliance with city and state codes. Although the city received \$910,000 in support, it ultimately cost the city \$2.6 million or \$237,000 per acre to acquire this property.

The benefit of purchasing the property will be realized for years to come. The site has been cleaned up and is no longer an eye sore in the community. The previous commercial activity on site has been eliminated and is no longer a threat to the sustainability of the creek. Significant state and local resources have been spent to protect this state designated trout steam, a worthwhile cause now and for future generations to come.

Project Results Use and Dissemination

The result of this project has provided more awareness and action on the part of adjacent landowners and partners in the Eagle Creek AMA. Cleanup days, invasive species removal, planting projects and management plans for the entire corridor have been completed since the project has been underway. The DNR has been active in implementing management strategies for both in-stream and upland areas. The Eagle Creek AMA Advisory Committee has been meeting regularly and is working closely with the Mdewakanton Sioux Community to include the entire corridor in the National Register of Historic Places. Local and governmental media have cooperated in disseminating information on special events and also keeping the public aware of activities that occur throughout the year. A joint

effort is currently underway for a special event some time in the fall of 2003, to publicize the fact that the entire corridor is now protected.

This project was completed June 30, 2003.

NEIGHBORHOOD WILDS PROGRAM

4(k) \$135,000 MFRF
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Overall Project Outcome and Results

The purpose of the Neighborhood Wilds Program is to provide education and technical assistance to suburban property owners that will encourage them to manage their landscape in an ecologically rational manner. Sixteen neighborhoods that are adjacent to significant natural areas were targeted with a series of workshops. Information presented in the workshops was tailored for the unique natural resource challenges and opportunities found in that neighborhood. Each of the 300 participants received a notebook containing aerial photographs, publications selected for the neighborhood, and a Suggested Activity Plan that provided direction on landscape management for private residential lots as well as collectively-owned property. If participants would implement some or all of the items in the Activity Plan, it would make their property healthier from an ecological perspective and provide a buffer for the adjacent natural area. Acting collectively the participants could be much more effective than each of them taking a few small steps on their own.

Nine of the neighborhoods that hosted workshops were selected to also receive funds to implement portions of the activity plan. These neighborhoods would serve as demonstration projects to encourage others to manage their landscape in a similar fashion for the protection and enhancement of remaining natural areas. Approximately 100 acres of land was treated directly by restoring native plant communities, removing exotic species, and buffering streams and wetlands. Indirect benefits can be attributed to a much larger area because the projects protected significant natural resources like the Seminary Fen, the St. Croix River, the Vermillion River bottoms, and the Maplewood Nature Center.

Project Results Use and Dissemination

The primary dissemination of information occurred during the series of neighborhood workshops. However, the workshop format and materials are now available to DNR staff and partner organizations so that future workshops can be organized with a minimal amount of effort. The master list of publications from which the notebooks were created will be available on the DNR web site. Most of the demonstration sites are readily accessible by the public so they can be used to educate other property owners who are interested in changing their landscape management practices.

This project completed June 30, 2004.

RECREATION

METROPOLITAN REGIONAL PARKS ACQUISITION, REHABILITATION AND DEVELOPMENT 5(a) \$5,645,000 TF

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Overall Project Outcome and Results

Funds from the Trust Fund appropriation were matched on a 60/40 basis with bonds issued by the Metropolitan Council, which were then granted to regional park implementing agencies as subgrants. The subgrants financed the following capital improvements:

- 1. Partially finance the acquisition of the 699-acre St. Croix Bluffs Regional Park in Washington County.
- 2. Acquire 1/2 acre, replace a play structure, plant 300 trees and construct a trail between the East and West Bush Lake areas of Hyland-Bush-Anderson Lakes Park Reserve in Bloomington.
- 3. Partially finance the acquisition of 37.5 acres in Lake Waconia Regional Park, Carver County.
- 4. Acquire about 50 acres of land within approved boundaries of regional parks, park reserves, and trails in Dakota County.
- 5. Partially finance the acquisition of a 400-acre parcel for the Doyle-Kennefick Regional Park in Scott County.
- 6. Finance the first phase construction to rehabilitate the Como Conservatory's fern room and the growing house in St. Paul.
- 7. Continue rebuilding trails and restoring the shoreline of Lake of the Isles in Minneapolis Chain of Lakes Regional Park.
- 8. Construct a campground visitor center building, related parking lot and utilities, relocate the equestrian center, build 1.5 miles of paved trails and install signs at Bunker Hills Regional Park, Anoka County.
- 9. Partially finance the rehabilitation of 7 miles of paved trail originally constructed in 1978 at Baker Park Reserve, Three Rivers Park District.
- 10. Rebuild 9.3 miles of paved trail and boardwalk originally constructed in 1978 at Elm Creek Park Reserve, Three Rivers Park District.
- 11. Begin to replace the beach bathhouse, seating terrace at the beach, a boardwalk trail, and path connections at Theodore Wirth Regional Park, Minneapolis.
- 12. Reimburse Dakota County for a sewer connection to picnic areas at Lebanon Hills Regional Park the county installed in 1996 and for youth group camp improvements at Spring Lake Park Reserve the county constructed in 1994.
- 13. Develop a part of three sections of the North Hennepin Regional Trail, Three Rivers Park District: 1) Elm Creek Park Reserve to Fish Lake Regional Park, 2) U.S. 169 to Theodore Wirth Regional Park, 3) Luce Line State Trail to West Medicine Lake.
- 14. Build 650 ft. of a historic plank road, a pedestrian path system within the lower tailrace area, and stabilize/restore exposed historic ruins in the "Mill Ruins Park" portion of Central Mississippi Riverfront Regional Park, Minneapolis.
- Begin building a picnic area at Sucker Lake in Grass-Vadnais-Snail Lake Regional Park, Ramsey County.

Project Results Use and Dissemination

The parks that received capital improvement funds from the Trust Fund appropriation hosted 12,837,400 visits in 2003, or 42% of the total visits to the Metropolitan Regional Park System (30,500,000).

This completed June 30, 2004.

LOCAL GRANTS INITIATIVE PROGRAM OUTDOOR RECREATION GRANTS

5(b) \$5,080,000 TF/MFRF Wayne Sames DNR 500 Lafayette Road, Box 10 St. Paul, MN 55155-4010 Telephone:(651) 296-1567

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Overall Project Outcome and Results

Local Initiative Grant programs provide matching grants to local governments and private organizations to acquire and develop land for outdoor recreation and open space; to implement fish, wildlife and native plant habitat improvement projects; and for conservation projects to protect and enhance the environment.

Project funds were divided among the programs as follows:

Natural and Scenic Area grants: \$1,630,360 Regional Park (Outside Metro) grants: \$799,640 Local Park (Outdoor Recreation) grants: \$1,000,000 Conservation Partner grants: \$601,229

Environmental Partnership grants: \$298,771
Legislatively Designated Projects: \$750,000

Total: \$5,080,000

For the Local Parks, Natural/Scenic and Regional Park grant programs a total of 34 projects were completed. A total of 953 acres of land was acquired, including Mississippi River and Cannon River shore land and bluff land, big woods remnants, native prairie, a tamarack bog, and shoreline on two lakes and a trout stream. Numerous outdoor recreation facilities were developed, including campgrounds, nature trails, picnic shelters, beach improvements, athletic courts and fields, playgrounds, boat and canoe accesses, and rest rooms.

For the Conservation Partners/Environmental Partnerships grant programs about 100 projects have been completed (several projects have balances that must be claimed by August 30, 2004). A variety of habitat projects have been completed, including prairie and forest restoration and replanting; fish habitat restoration; shelterbelts; shoreline/wetland restoration; beaver control; wood duck box construction and placement; wild rice bed protection; installation of buffer strips; buckthorn and other exotic plant removal; resource inventory, assessment and mapping; GIS data base development to guide restoration and promote research; water quality assessments; runoff control measures; erosion control; and several research projects related to habitat improvement.

The three legislatively designated projects resulted in improvements to a nature center in St. Louis Park and a paved bicycle trail in Chanhassen. The Lake Links Trail project period was extended to June, 2006 and results will be reported then.

Project Results, Use and Dissemination

Information from those Conservation Partners/Environmental Partnership projects involving research or information development has been disseminated in various ways. Information on specific projects can be provided on request.

This project completed June 30, 2004.

REGIONAL AND LOCAL TRAIL GRANTS

5(c) \$1,000,000 MFRF Tim Mitchell DNR 500 Lafayette Road, Box 10 St. Paul, MN 55155 Telephone: (651)297-1718

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Overall Project Outcome and Results

Every year the department solicits grant proposals from local governments for local trail connections, and regional trails outside the metro area. Project proposals for all of these programs are evaluated and ranked on a competitive basis. The LCMR approves a priority ranked list presented by the DNR. If one or more approved projects subsequently are dropped from the list, the DNR is authorized by the LCMR to reallocate those funds to the next highest ranked project.

Descriptions of the grant programs are as follows:

Local Trail Connections Grant Program - helps link communities to trails and parks through development of connecting trail segments. The maximum grant amount of \$50,000 was established administratively and is not defined in statute.

Regional Trail Grant Program - provides grants of up to \$250,000 to cities, counties, and townships for development of regionally significant trails funded with local or federal funding. Primary determinants of significance include length, expected use and resource quality and/or attractiveness.

Projects funded through this appropriation are listed below:

Recipient	Project Cost	Grant	Miles	Project Name & Status
City of Brainerd	\$100,000	\$50,000	1.0	Boom Lake Trail Completed
City of Oakdale	\$100,000	\$50,000	0.5	Hadley Avenue Trail Completed
IRRRB	\$120,000	\$50,000	0.0	Highway 53 Underpass Completed
City of Warroad	\$120,000	\$50,000	0.4	Warroad Trail Connection Completed
City of St. Francis	\$45,000	\$21,913	0.6	Seeyle Brook Trail Completed
City of St. Francis	\$75,620	\$36,341	1.3	Rum River Trail Completed
City of Mountain Lake	\$87,350	\$43,675	0.5	Mountain Lake Trail Completed
City of Duluth	\$200,000	\$20,000	0.1	Lincoln Park Trail Completed

City of Osakis	\$79,380	\$39,690	1.6	Central Lakes Trail Completed
City of Hill City	\$360,000	\$30,000	0.0	Hill Lake Trail – Phase 2A In Progress
City of St. Michael	\$100,000	\$50,000	0.8	School Creek Trail West Completed
City of Northfield	\$77,963	\$38,900	0.5	Sibley Swale Park Trail Completed
Stearns County	\$1,140,000	\$250,000	9.3	Lake Wobegon Trail – III Completed
Stearns County	\$468,000	\$113,000	3.6	Lake Wobegon Trail – IV In Progress
Mille Lacs County	\$1,656,400	\$90,000	0.0	Soo Line Bridge – T.H. 169 In Progress
Totals	\$4,729,713	\$933,519*	20.2 miles	

^{*} Funds granted to not equal appropriation due to projects that were given grants but failed.

This project due to be completed approx. June 30, 2006 (the availability of the financing for this project is extended to equal the period of the federal grant).

OUTDOORS FOR EVERYONE: ACCESSING RECREATIONAL TRAILS AND FACILITIES

5(d) \$230,000 TF

Mike Passo

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Overall Project Outcome and Results

Wilderness Inquiry has conducted Universal Design / Accessibility Consultations in **71 different agencies, comprising approximately 181 separate recreation areas.** Following is a summary of the outdoor elements surveyed as compared to those proposed in the original grant:

Outdoor Developed Element	# Proposed	# Actual	% Accomplished
Trails and Access Routes (miles):	130	108.6	83%
Picnic Areas:	40	170	425%
Camping Areas:	20	37	185%
Beaches and Swimming Ponds/Pools:	10	12	120%
Playgrounds:	50	112	224%
Fishing Piers / Sites:	n/a	56	n/a

I			
		40	
Visitor Centers	lin/a	17	n/a
VIOLOT OCTION	11/A	· /=	μπα

In comparison to the stated goals for this grant, these numbers constitute an average of a 200% increase over the original proposed number of elements estimated to be assessed under current funding levels.

Wilderness Inquiry conducted research and completed a report on the viability and means of sustaining the Outdoors for Everyone program beyond the current funding cycle. This final report fully outlines the means by which the program can be sustained in the future and provides an action plan that Wilderness Inquiry will follow to further develop this program.

Project Results Use and Dissemination

WI has calculated, compiled, and sent reports of the findings from each park's Universal Design Consultation to all 71 agencies served.

At the close of the Outdoors for Everyone project, 109 recreation areas have agreed to post the findings of their Wilderness Inquiry park assessments on Minnesota's Accessibility Guidebook. By upgrading the existing web site to a database-driven website, we have the capacity for all surveys to be continually updated by park managers, park users and WI staff. This creates a progressively better information source as time goes on with little additional outlay of money outside of the Outdoors for Everyone Project.

This project completed June 30, 2003.

WATER RECREATION: BOAT ACCESS, FISHING PIERS AND SHOREFISHING

5(e) \$910,000 TF Michael Markell DNR

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St. Paul, MN 55155

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E-mail: mike.markell@dnr.state.mn.us

Overall Project Outcome and Results

This project provides the public with access to lakes and rivers statewide. Access includes boat access, fishing piers and shore fishing improvements. Access opportunities are provided to people with or without a boat, to people of all ages and race, and to people with a diverse range of physical abilities.

Throughout various regions of the state, five water access sites were developed, three parcels of land were purchased to provide new or expanded access, fifteen fishing piers were purchased and installed, three existing piers were modified, and two shore fishing sites were constructed. Access sites are treated with best management practices to protect shorelines, uplands and wetlands.

Minnesotans greatly appreciate public access to the state's lakes and rivers as evidenced by the large number of boats registered and fishing licenses sold. It's no secret that our lakes and rivers are an integral part of the social and economic fabric of the state. Studies have shown that water access sites are not just for boaters, but are used by birdwatchers, people who want to view the lake, or as a place to stop and relax. Fishing piers are popular places for children to recreate and to pick up a life long interest in fishing and the outdoors. Boaters benefit by having additional access to water through high quality boat launch facilities that are safe and convenient. Local units of government gain benefit via

grants and technical assistance for providing new or improved access.

Project Results Use and Dissemination

The public water access sites, fishing piers and shore fishing areas will be identified on the DNR's system of water access maps and the DNR website. Signs will be posted on each access site, fishing pier and shore fishing project giving attribution to the environment and natural resources trust fund.

This project completed June 30, 2004.

GRAYS BAY, LAKE MINNETONKA PUBLIC WATER ACCESS

5(f) \$2,850,000 TF/MFRF Michael Markell DNR

Trails and

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Overall Project Outcome and Results

The DNR acquired over 5 acres of land on Lake Minnetonka and constructed the Gray's Bay Public Water Access in cooperation with the City of Minnetonka. The Trust for Public Land was instrumental in negotiating the acquisition and donated \$10,000 toward the project. The acquisition cost was \$6,000,000 with \$4,000,00 appropriated from state bonds and \$2,000,000 from this appropriation. The City ran the public process, which included a task force that met for over 2 years. The Lake Minnetonka Conservation District (LMCD) and the Minnehaha Creek Watershed District were active partners providing funding and/ or support. The City of Minnetonka as part of the overall Access plan, is converting the former small boat accesses on the Gray's Bay Causeway to a shorefishing site and the Dam site to a canoe launch for Minnehaha Creek and shorefishing on the lake. The City of Minnetonka also operates a public gas dock and provides for site maintenance on all the sites.

The development contains a 112 car/trailer parking lot, 3 launch ramps 21 car only parking spaces restrooms and accessible walkways to shorefishing. It is the largest boat access in the state. The design includes sophisticated stormwater management and native vegetation plantings.

The boat access site is needed because from DNR and LMCD boating studies 27% of the boating in the metro area is done on Lake Minnetonka.

Project Results Use and Dissemination

The DNR and the City of Minnetonka held a grand opening on Jun 5, 2002 which was well publicized in the local media. There were feature article in the local newspapers over several months. The site has signing on County Road 101 and is identified by DNR and LMCD access maps.

This project completed June 30, 2003.

MCQUADE PUBLIC ACCESS

5(g) \$500,000 MFRF
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Overall Project Outcome and Results

The project is construction of a small craft harbor on Lake Superior developed in cooperation with the DNR, US Army Corps of Engineers, and local governments. Other sources of funding totaling \$7,350,000 include state bonding, county state aid road funds, and federal Corps of Engineers' funds. An agreement was signed between the Corps of Engineers and the DNR on March 10. 2004 for construction of the project. Under the agreement, the DNR was required to transfer state funds to the Corps and the transfer took place in late spring 2004. The Corps then bid the project in the summer of 2004 and is responsible for completion of construction which started in October. The protected harbor at McQuade Road will provide boat access and shelter from storms for a wide range of boating activities (primarily fishing). The facility includes a 3.1 acre harbor basin created by modified berm-like breakwaters, boat launch ramps, docks at the ramps, and 60 car/trailer and 23 car only parking areas. The project includes lighting, walkways, landscaping, and shore fishing structures. A bridge is being constructed on County Road 61 to allow boaters to access the launch ramps underneath. Future plans include restrooms and a fish cleaning station. The project is the result of a fourteen-year extensive planning process incorporating stakeholder and local communities' interests. Partners include the City of Duluth, Lakewood and Duluth Townships, and St. Louis County-all parties to a Joint Powers Agreement. Construction will be completed by fall 2006.

When completed, the project is intended to serve all citizens by providing both shoreline and boat access. The safe harbor will provide a park-like setting, and in addition to boating and shore fishing, citizens will be able to experience the lake from shore or by accessing the breakwater on an accessible route.

Project Results Use and Dissemination

The project will be identified on DNR maps and the DNR website. A grand opening will be planned upon completion and the media will be notified.

This project completed June 30, 2004. ** as amended in ML 2003

LAND ACQUISITION AT THE MINNESOTA LANDSCAPE ARBORETUM

5(h) \$730,000 TF Peter J. Olin Minnesota Landscape Arboretum/ U of M PO BOX 39 Chanhassen, MN 55317 Telephone:(612) 443-14712 Fax: (612) 443-2521

E-mail: peter@arboretum.umn.edu

Web address: http://www.arboretum.umn.edu/

Overall Project Outcome and Results

The objective of the Arboretum's land purchase is to protect its watershed from development.

During this phase, the Arboretum purchased 10 acres from one property owner, and 7 acres from another property owner. Funds expended included \$730,000 from the LCMR 2001 allocation, approximately \$121,000 from the Trust Fund 2003 allocation, and approximately \$851,000 in private match.

Arboretum research and education programs are recognized internationally, and over 250,000 people

visit annually. A major part of the visitor experience is the ambience of woodland, prairie, wetlands, gardens, and model landscapes, all set in prime land in the western metro area.

Control of all lands within the roadways surrounding the Arboretum core will protect water quality and native plant habitat, and preserve the visitor experience. This land includes over 90% of the Arboretum's watershed.

This project completed June 30, 2004.

GATEWAY TRAIL BRIDGE

5(i) \$530,000 MFRF

Tom Danger

DNR

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St. Paul, MN 55155

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A trail bridge was constructed over Hwy 96.

The project was completed in the summer 2004.

STATE TRAIL PROJECTS

5(i) 910,000 MFRF

Tom Danger

DNR

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To provide matching funds for state trail projects eligible to receive federal TEA-21 funds.

This project due to be completed June 30, 2008. ** as amended in ML 2004

GITCHI GAMI STATE TRAIL

5(k) \$1,000,000 TF

Kevin Johnson

DNR

1568 Hwy #2

Two Harbors, MN 55616

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In cooperation with the Gitchi-Gami Trail Association, for the second biennium to acquire and develop approximately four miles of the Gitchi-Gami trail between Gooseberry Falls State Park and the Split Rock River.

This project due to be completed June 30, 2005. ** as amended in ML 2003

FOREST HISTORY CENTER INTERPRETIVE TRAIL

5(I) \$90,000 MFRF Robert "Skip" Drake Minnesota Historical Society 2609 County Rd. 76 Grand Rapids, MN 55744 Telephone: (218) 327-4482

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Web Address: http://www.mnhs.org/foresthistory

The newly redesigned and re-engineered Forest of Today Trail at the Minnesota Historical Society Forest History Center makes this possible for all persons regardless of their physical limitations.

The one mile long, Forest of Today trail, an integral part of a 3-mile trail system, has been re-graded and resurfaced with class five aggregate to be fully ADA wheel chair accessible. It has been augmented with two Minnesota Historical Society funded learning stations designed to enhance the usability of the trail and to increase educational programming opportunities for all persons.

Twenty thousand people, including between 4000-5000 students visit the Center annually and experience how the Center connects people to forests through educational, meaningful and entertaining experiences so they appreciate and understand the importance of forests past, present and future to their lives. To fully integrate the upgraded trail and learning stations, new educational programs are being developed by forestry experts and exhibit professionals that will take students and the public into the woods for meaningful and memorable immersion experiences.

This project completed June 30, 2003.

MESABI TRAIL FACILITY

5(m) \$190,000 MFRF Bob Manzoline St. Louis & Lake Ctny Reg. Rail Auth. 801 SW Hwy 169, Suite 4 Chisholm, MN 55719 Phone: (218) 254-2575

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Overall Project Outcome and Results

Mesabi Trail Central Facility was designed, land acquired and plans completed for road and utility accesses to the site at Rouchleau mine in the Hwy 53 trail corridor area. Cottage Creek Studios performed overall design of facility, DSWG Architects performed architectural functions and Benchmark Engineering civil engineering components. Plans are complete to proceed with construction of facility including roadway access and utilities.

Mesabi Trail Central Facility, or Trail Central, is integrated into a much larger Master Plan for the Mesabi Trail project. Trail Central is one component of the 132-mile long Mesabi Trail and will be an important point of access and departure for Mesabi and other trails systems in Northern Minnesota.

Project Results Use and Dissemination

Trail Central will serve trail users and guests to Mesabi Trail, other trail systems and visitors to Northeast Minnesota. It is an access point to information and more importantly a departure point for finding many resources in this region. This project completes the second step in this project with the

third and final step being construction. Information from this design and planning process will assist moving forward into construction as we have a complete set of plans and information we can use to demonstrate how this facility will function.

This project completed June 30, 2003.

REGIONAL TRAILHEAD BUILDING

5(n) \$135,000 MFRF Roger Clark Itasca County Land Department 123 NE 4th Street Grand Rapids, MN 55744 Telephone:(218) 327-7347 Fax: (218) 327-2848

E-mail: Roger.Clark@co.itasca.mn.us

Completed construction of the Itasca County Regional Trailhead Building located at the Fairgrounds in Grand Rapids, MN. The facility is approximately 5000 square feet in size and is designed to function as a multi-purpose trail user information center, including external and internal kiosks, a contact station, handicapped accessible restrooms, a multi-purpose meeting room for trail user groups, training needs, and other activities. The facility also provides an office space for the County Park System and the Itasca County Agricultural Association. Grand Rapids is a popular tourist area for thousands of visitors. Many visitors are including recreational trail use in their vacation plans. This facility is the starting/ending point for several well known and popular public recreational trails

The **State Taconite Snowmobile Trail** running from Grand Rapids to Ely (170 miles), connecting hundreds of miles of snowmobile trail. External kiosk and bathroom facilities are available during daylight hours and internal information will be made available during special events.

The Itasca County bike trail running 6 miles north to Gunn Park located along the Highway 38 National Scenic Byway and,

The **Mesabi Bike Trail** (bituminous), currently being developed from Grand Rapids to Ely, connecting 20 plus Iron Range communities (132 miles in length). As this trail gains more popularity, this facility will be made available to thousands of visitors to the Itasca County area. This facility is the first of several main trailheads which are planned to be located along the Mesabi Bike Trail.

This project completed June 30, 2003.

DEVELOPMENT AND REHABILITATION OF RECREATIONAL SHOOTING RANGES

5(o) \$910,000 MFRF Chuck Niska DNR 500 Lafayette Rd. St. Paul, MN 55155-4047 Telephone:(651) 297-2449 Fax: (651) 297-3727 E-mail: chuck.niska@dnr.state.mn.us

Overall Project Outcome and Results

Key objectives of this project included:

To rehabilitate or start safely run rifle and pistol ranges. Forty total rifle and pistol ranges were worked with, including building 8 new facilities. To work with new trap and skeet facilities; 11 grants were for

new trap and skeet facilities. To update and improve existing trap and skeet facilities; 20 facilities received rehabilitation grants. To address environmental concerns; nine grants were awarded to address these concerns. To improve shooting range site access, based on ADA Standards: 21 grants were awarded for this purpose. To provide utility upgrades, so that either lighting improvements, hand washing for lead removal, or ADA standard bathroom upgrades could be provide. Thirteen grants were issued for this purpose.

A total of 63 range operations received 81 grants. Fourteen recipients were original participants during the 1999/2001LCMR grant program, when 30 ranges received grants. So, since 1999, a total of 79 ranges have received \$1,142, 600 in state match funding to make new shooting ranges, or range improvements.

The positive impact of the range development or improvement projects on Minnesota's shooting sports capacity varies locally for each range, based on parameters such as physical location, population (both local & regional), date of project completion, prior history and activities undertaken by the recipient organization. Three range groups receiving grants were approached for specific, detailed information regarding how their obtaining a grant improved their range. Each group was chosen for a specific reason: one group's range existed prior to 1999; another range was begun during the first cycle of the grant program, and the third during the 2001 grant cycle. These are best chronicled in an accompanying attachment. All other recipients have likewise been asked to return similar information.

A discussion of recommendations to improve the quality of the project will be included in the Final Report's Outline of Project Results. Accomplishments of the first four years are included in the booklet Outdoor Ranges: Best Practices.

This project completed June 30, 2003.

STATE PARK & RECREATION AREA LAND ACQUISITION

5(p) \$1,726,000 MFRF Larry Peterson DNR 500 Lafayette Road St. Paul, MN 55155-4039 Telephone:(651) 296-0603 Fax: (651) 296-6532

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Overall Project Outcomes and Results

The purpose of this project was to acquire in-holdings from willing sellers within state park and recreation area boundaries. Approximately 1153 acres in the following locations were completed using the 2001 appropriation:

Big Bog SRA - 200 acres
Crow Wing - 115 acres
MN Valley SRA - 5 acres
Frontenac - 38.5 acres
William O'Brien - 55 acres
Nerstrand Big Woods - 6.2 acres
Cuyuna County SRA - 691 acres (partial divided interests)
Split Rock Light House - 42 acres
Mille Lacs Kathio - 0.27 acres

This appropriation is significant in that it continues the progress toward reducing the backlog of acquiring private in-holdings within statutory state park boundaries. These private in-holdings currently

total about 52,000 acres.

Project Results Use and Dissemination

Parcels acquired have been shown on updated state park boundary maps, and have been described in the MN State Park Traveler newspaper and other publications.

This project completed June 30, 2004.

LAWCON

5(q) \$740,000 MFRF Wayne Sames DNR - OMBS, Box 10 500 Lafayette Road St. Paul, MN 55155-4039 Telephone:651-296-1567

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Overall Project Outcome and Results

The key objective of the federal LAWCON grant program is to assist state and local governments in the acquisition, development and redevelopment of outdoor recreation areas and facilities. The FFY 00 and 01 LAWCON reimbursements were used to acquire, develop and redevelop 20 local park areas and one state park. The types of facilities funded included:

7 Picnic Areas

10 Trails

11 Playgrounds

9 Walkways/Parking

3 Beaches

5 Restroom/Shower Buildings

5 Athletic Courts

1 Ball Field

2 Landscaping/Lighting

1 Campground

1 Fishing Pier

1 In-line Skating Facility

In addition, 54.6 acres of new park land was acquired.

The state park project involved the construction of a new campground at Lac Qui Parle State Park.

Project Results Use and Dissemination

The projects resulted in acquisition, development and redevelopment of the above described facilities.

This project completed June 30, 2004. ** as amended in ML 2003

WATER RESOURCES

ACCELERATED IMPLEMENTATION OF LOCAL WATER PLANS

6(a) \$1,365,000 MFRF

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Overall Project Outcome and Results

Grants were awarded to 23 projects identified as high-priority actions in water management plans of local government units, enabling them to carry out water protection measures beyond what their general budgets would have afforded. All grant monies were matched with cash at a minimum of one-to-one. Some examples of projects carried out by implementation category are cited below.

Eleven projects installed land or water treatment measures. Nobles County installed best management practices saving an estimated 32,000 tons of soil annually. Polk County repaired bank erosion in Crookston that had exposed sewer pipes posing a severe threat to the Red Lake River. Cover crops planted on canning crop acres saved an estimated 10,000 tons/yr of soil in Mower County.

Five projects focused on resource plans or environmental controls. Lake of the Woods developed a comprehensive wetland management plan and wetland ordinance. Olmsted and Dodge counties developed a stormwater management and capital improvement plan for the 297 square miles South Zumbro Watershed. This plan aims to protect natural stream corridors, drainages and other hydrologic features of this unique area.

Four projects carried out monitoring and assessment activities. North Cannon WMO monitored water quantity and quality, and macorinvertebrates in the Pine Creek and Trout Brook subwatersheds. Itasca County modeled the impacts of varying levels and types of lake development, and from that data developed specific recommendations to the county relating to present and future land use.

Three projects focused on inventory and mapping. Carnelian Marine WD inventoried the unique communities associated with the springs along the St. Croix River and prescribed long-term protection and management strategies. This plan is being used by WDs and WMOs in with their water management plan updates.

Each project disseminated the results in the manner most appropriate. Many used websites, newspaper articles and fact sheets.

This project due to be completed June 30, 2004.

GREEN INFRASTRUCTURE DESIGN STRATEGIES IN WASHINGTON, RAMSEY AND DAKOTA COUNTIES—GOVERNOR VETO

6(b) \$275,000 MFRF
Mary Vogel
U of M
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Minneapolis, MN 55455
Telephone:(612) 626-7417
Fax: (612) 624-5743

E-mail: vogel001@maroon.tc.umn.edu Web Address: http://www.cala.umn.edu To develop green infrastructure design strategies for incorporation into public works projects.

DENITRIFICATION STRATEGIES FOR MINNESOTA'S CONTAMINATED AQUIFERS

6(c) \$230,000 TF Paige J. Novak U of M 122 Civil Engineering, 500 Pillsbury Drive SE Minneapolis, MN 55455 Telephone:(612) 626-9846 Fax: (612) 626-7750

RESEARCH

Overall Project Outcome and Results

Nitrate (NO₃) is a common groundwater pollutant that has been linked to cancer and methemoglobinemia. We have developed a technology to stimulate biological NQ reduction (denitrification) by supplying hydrogen (H) to groundwater via gas-permeable membranes. Autotrophic bacteria consume the dissolved H₂, converting NO₃ to NO₂ and then to N₂. The purpose of this project was to investigate this technology at a field scale, determining whether it could be successfully scaled-up and if so, developing protocols for its use. The site that was used (in Becker, MN) was non-ideal, as it contained extremely high NQ (22.8± 1.98 mg- NQ -N/L) and dissolved oxygen (DO) concentrations (7± 1 mg-DO/L), and was very deep (48.2± 0.5 ft to groundwater). Membranes installed in groundwater wells at the site were successful in delivering H to the groundwater over the two-year operating period. The added H stimulated DO and NO₃ reduction, degrading up to 7 mg/L DO and converting up to 10.0 mg/L NQ -N to NO2 -N when operated passively. Complementary laboratory and modeling studies showed that complete DO reduction and denitrification to No was possible with the aquifer material and groundwater from the site, but required phosphate addition (9.62± 1.25 mg-P/L as a nutrient) and better contact between the membranes and the passing groundwater. Because of this, water was recirculated in the field from downgradient to upgradient membrane-containing wells to increase the number of times a parcel of water was exposed to H₂. The depth to groundwater caused some difficulty with water recirculation, resulting in water reoxygenation. It was determined that this technology can be used at a field-scale to denitrify water that contains extremely high quantities of NQ and DO, but it should only be used at shallow sites to avoid reoxygenation during water recirculation and to facilitate closer placement of membrane-containing wells.

Project Results Use and Dissemination

Results have been disseminated at several Minnesota Water conferences. In addition, two manuscripts are being written and will be submitted for publication this fall (2004), likely to the journal *Water Research*.

This project completed June 30, 2004.

DETERMINATION OF FECAL POLLUTION SOURCES IN MINNESOTA WATERSHEDS

6(d) \$275,000 MFRF Dr. Michael J. Sadowsky U of M

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RESEARCH

Overall Project Outcome and Results

We used a library of DNA fingerprints, created using the rep-PCR and HFERP techniques, in an attempt to define sources of fecal bacterial pollution, E. coli, in three Minnesota watersheds, Minneopa Creek (Blue Earth County), High Island Creek (Sibley County), and Vermillion River (Dakota County). Sampling from 10 sites per watershed took place in 2001 and 2002. Approximately 25 E. coli isolates were obtained from each site per sampling date. About 1,776, 1,651, and 1,762 E. coli were DNA fingerprinted from the Vermillion River, High Island Creek, Minneopa Creek Watersheds, respectively. The most reliable results from data came from bootstrap analyses of fecal bacteria segregated into Human vs. Non-human categories, or into groupings consisting of Humans, Pets (dogs and cats). Waterfowl (geese, ducks), Wildlife (deer), and Domesticated animals (chickens, cows, goats, horses, pigs, sheep, turkeys). Analysis of the Vermillion River showed that 93 and 6.1 % of the isolates identified were of Non-Human and Human origin, respectively. The greatest potential contributors to fecal pollution in this watershed were domesticated animals (23 %), pets (45%), and deer (19%). Similar results were found with the Minneopa Creek isolates, where 90 and 10% of the isolates were from non-human and human origin, respectively. Of these 23% were from Domesticated animals, 36% from Pets, and 21% from deer. In contrast, while 84 and 16% of High Island Creek isolates were Non-Human and Human sources, respectively, the majority came from domesticated animals (42%, mostly from cows), with the remainder contributed by geese, 14%, and humans 16%. It should be noted however, that our research showed that much larger database of DNA fingerprints is needed for more accurate assignments to the animal level. A reliable bacterial source tracking method would aid watershed managers tremendously, giving them another tool to efficiently direct efforts to clean watersheds of bacterial pollutants.

Project Results Use and Dissemination

Results from this project have been disseminated in reports made to the LCMR, in periodic update reports made to cooperators, in seminars given throughout the state, nationally and internationally, and in scientific publications in peer-reviewed journals. In addition, results from our studies are posted and will be updated on the *E. coli* rep-PCR web page (see http://www.ecolirep.umn.edu/) which is housed on computers at the University of Minnesota, Department of Soil, Water, and Climate. A Website specific for this project was developed as part of our previous LCMR projects. Data obtained from our studies will be utilized by cooperating agencies and the U.S. EPA to prioritize pollution abatement efforts, implement best management practices, and validate existing pollution prevention efforts in the three watershed areas.

E. coli rep-PCR web page (see http://www.ecolirep.umn.edu) which is housed on computers at the University of Minnesota, Department of Soil, Water, and Climate. The website specific for this project was developed as part of the 1999 LCMR project and was updated throughout this project period.

This project completed June 30, 2004.

MISSISSIPPI HEADWATERS BOARD ENVIRONMENTAL ECONOMIC ASSESSMENTS

6(e) \$100,000 MFRF
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Mississippi Headwaters Board
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Web Address: http://www.mhbriverwatch.dst.mn.us

The project funding was for two main components: 1) accelerating the river watch watershed monitoring program and 2) assessing the relationship between water quality and lakeshore property price variability. A report was produced titled "Lakeshore Property Values and Water Quality: Evidence from property sales in the Mississippi Headwaters Region". by Drs. Patrick Welle and Charles Parson at Bemidji State.

The findings and implications of the "Lakeshore Property Values and Water Quality" report are:

Water quality was shown to be a significant explanatory variable of lakeshore property prices in all lake groups in both versions of the model. Water quality has a positive relationship with property prices.

Site quality, the other environmental variable used in the Minnesota (MN) model, was found to be significant in four of the six lake group and the relationship is negative in the other three lake groups.

Using the estimated hedonic equations from the MN model, the implicit prices of water quality were determined and calculations were made to illustrate the changes of water quality were determined and calculations were made to illustrate the changes in property prices on the study lakes if a one-meter change in water clarity would occur. Expected property price changes for these lakes are in the magnitude of tens of thousands to millions of dollars. The evidence shows that managements of the quality of lakes is important to maintaining the natural and economic assets of this region.

As of fall 2004, study results have been presented at over 40 meetings and conferences, including one international conference.

Link to the report: http://info.bemidjistate.edu/News/currentnews/lakestudy/lakestudy.pdf The report is also available on CD Rom.

This project completed June 30, 2003.

LAND USE AND NATURAL RESOURCE INFO

HYDRAULIC IMPACTS OF QUARRIES AND GRAVEL PITS

7(a) \$320,000 TF
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Fax: (507) 285-7144

E-mail: jeff.green@dnr.state.mn.us

RESEARCH

To research and evaluate the impact of aggregate extraction on groundwater quality and quantity.

This project due to be completed June 30, 2005. ** as amended in ML 2003

GIS MANAGEMENT IN KOOCHICHING COUNTY

7(b) \$70,000 MFRF

Jaci Nagle Koochiching County 715 4th Street International Falls, MN 56649 Telephone:(218) 283-1171 Fax: (218) 283-1104

Overall Project Outcome and Results

Several sources of information were utilized to create a parcel layer shapefile to assist with the GIS management in Koochiching County. This parcel layer will be an invaluable tool in the performing of GIS functions and data analysis within the county.

The final product contains 58,536 individual polygons. Of this total, 18,771 have data extracted from the AS/400 and are clearly identified as parcels from the property tax system; 213 polygons are miscellaneous in that they are identified by the local unit of government or agency identified as the owner; 7,587 polygons are identified as parcels owned by the State of Minnesota; 7,281 are identified as tax forfeited property (also State of Minnesota); and 2,806 are identified as Federal land.

This product contains information currently being sought under Hazard Mitigation and Emergency Response endeavors. It will provide for overall better land management including but not limited to planning and zoning, sales ratios, land use, timber harvesting, forfeited land sale, road construction, etc.

GIS users throughout the county departments can access the parcel layer and joined data via county purchased ArcView software programs/PC systems. Such access will facilitate prompt responses to taxpayer, realtor, state and local agency and other informational requests.

Project Results Use and Dissemination

The parcel layer has already been utilized for both tax forfeit land sale management and to provide information for a joint member economic development agency. The data resides on a file server and is available for access by several county departments. A concerted effort has been made to ensure that all county processes include dissemination to the GIS Technician, facilitating the maintenance of the product. The metadata for this product is available on the ARDC Data Clearinghouse.

This project was completed June 30, 2003.

UPDATING OUTMODED SOIL SURVEYS-CONTINUATION

7(c) \$500,000 TF
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Overall Project Outcome and Results

Existing soil surveys for three counties, Goodhue, Fillmore and Wabasha, were orthorectified by the University of Minnesota, Department of Soil, Water and Climate. About 75 percent of Dodge County, the fourth and final county in the project area, was completed. Dodge County will be completed by June 30, 2005 as part of final map finishing. These orthorectified products are being used to develop a legend for update mapping, editing soil lines and as an interim digital soil survey. The BWSR hired (from county funds) a student intern-GIS graduate student-to assist the NRCS staff with line editing.

Two private sector soil scientists worked under contract with BWSR (using county funds) to collect soil data for legend development and soil interpretations. Through June 30, 2003 seven hundred eighty transects (780), including over 7,800 soil cores to a depth of 80 inches, have been described. These data are providing essential information concerning the use and management of soil, and will assist in the update of soil interpretations. Development of a legend to guide update mapping is about 90 percent complete. Update mapping is underway in areas that have a legend. About 1,400,000 (of 1.65M) acres has been addressed in the four county project area. Research at the UM focused on the investigation of methods to incorporate remotely sensed imagery into the making of soil maps, including interactive delivery of soil survey information over the Internet.

Project Results Use and Dissemination

As data is certified as accurate, it is made available to the public. Interim digital products, including soil lines, will be available before June 30, 2006. Members of the project team make frequent presentations to local government staff and officials in the project area.

This project completed June 30, 2004.

COUNTY BIOLOGICAL SURVEY-CONTINUATION

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Overall Project Outcomes and Results

The Minnesota County Biological Survey (MCBS) is a systematic survey of rare biological features that began in 1987. The goal of MCBS is to identify significant natural areas and to collect and interpret data on the distribution and ecology of rare plants, rare animals, and native communities.

MCBS has completed surveys in 57 of Minnesota's 87 counties since 1987. In this biennium, field surveys were completed in Aitkin, Carlton, Crow Wing, Kandiyohi, McLeod, Meeker, and Pope counties and continued in Douglas and Itasca counties. In Cook, Lake and St. Louis counties, surveys, continued in North Shore Ecological Subsection and expanded into the Laurentian Highlands and Toimi Uplands subsections. They began in Todd County and the un-surveyed portions of Becker and Otter Tail counties.

In this biennium, new records of 1,324 locations of rare features were added to the DNR Rare Features Database. Since MCBS began in 1987, 14,105 new records have been added by MCBS. Since July 2001, 453 vegetation samples (releves) were added to statewide Releve Database, for a total MCBS contribution of 3,219 samples of the over 7,400 records now in the database. These vegetation data have been analyzed resulting in a revision of MN Native Plant Community Classification. Since 1987, 16 species of native plants and two species and 1 hybrid of amphibians not previously documented in MN have been recorded by MCBS.

Project Results Use and Dissemination

Published maps of MCBS results in 24 counties are available upon request. Digital files of native plant community and MCBS sites of biodiversity significance are available on the DNR "Data Deli" for 32 counties. (See the Division of Ecological Services on the DNR website www.dnr.state.mn.us)

A report, Minnesota County Biological Survey: Landscape Study Areas and Sites of Crow Wing

County, MN was delivered to Crow Wing Cunty to assist with countywide planning.

A Compact Disk, Survey of Biological Features in the Glacial Lakes and Morraines Landscape of West-Central Minnesota. Biological Report No. 76 includes summaries and maps of results. Two high priority prairies identified by MCBS in this landscape have been protected as natural areas. Advice was provided to the US Fish and Wildlife Service regarding an important prairie in Meeker County.

Staff participate in DNR's Subsection Forest Resource Management Planning team for the three subsection, were members of DNR's area field teams, provided comments on the Chippewa and Superior National Forest plans, reviewed data layers for discussion of sustainable forest management as part of the Manitou Collaborative, provided vegetation mapping for the Lower St. Louis River Habitat Plan, and produced reports and vegetation maps for use in State Park management.

Aquatic plant data collected at 277 lakes are available for use in Itasca County's Lake Sensitivity and Classification project designed to provide analysis of lakes to help direct zoning and planning.

A DNR publication, Field Guide to the Native Plant Communities of Minnesota: the Laurentian Mixed Forest Province is in press and will also be available on the DNR website.

Project proposals for potential natural areas at Myhr Creek Ridge (Cook County), Ice Ramperts (Aitkin County) and 6 sites in Pope and Kandiyohi counties were presented to the Commissioners Advisory Committee resulting in their nomination as projects. Survey results were presented at 7 county board meetings.

MCBS results were featured in a series of "Case Studies of communities" (see DNR website).

This project completed June 30, 2003.

LAKE SUPERIOR LAKEWIDE MANAGEMENT PLAN (LaMP)

7(e) \$87,000 GLPA

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PCA

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Overall Project Outcome and Results: Manufacturing of polychlorinated biphenyls (PCBs) has been discontinued but use of PCB bearing equipment continues. PCBs are one of nine toxic chemicals targeted by the Lake Superior Zero Discharge Demonstration. This project's objective was to assist owners of small quantities of PCBs to remove contaminated polemounted transformers in the Lake Superior watershed.

- Four utilities shared their transformers' serial numbers with the MPCA. The agency compared their serial numbers to manufacturing serial numbers. 720 transformers (about 4%) were on the manufacturers' list of transformers that may contain PCBs.
- The MPCA visited each of the suspect transformers in the Lake Country Power and Cooperative Power and Light districts within the Lake Superior watershed. The coordinates were entered in a GPS unit and the closest body of water was also entered. This allowed the MPCA to prioritize transformers using the distance to water.
- Lake Country Power volunteered to remove all of their 292 suspect transformers, although the contract could cover only a portion of the cost.
- Cooperative Power and Light contracted to replace 145 suspect transformers manufactured by GE that were closest to Lake Superior. (GE transformers are most likely to contain PCBs and are therefore a priority.)

- The City of Grand Marais contracted to replace 14 suspect transformers and test others.
- Summary: This project and voluntary actions by participants will result in the replacement of 82% of the transformers owned by the three facilities that participated and 64% of the suspect transformers originally identified.

<u>Project Results Use and Dissemination</u>: The project manager has been asked to assist the MPCA with PCB phase-out agreements per MN Stat. 116.07, subd. 2b. Results will be distributed to other Great Lakes states when the project ends at the end of the federal fiscal year.

This project completed June 30, 2004.

AGRICULTURE AND NATURAL RESOURCE INDUSTRIES

EVALUATING TIMBER HARVESTING AND FOREST MANAGEMENT GUIDELINES

8(a) 200,000 MFRF Charles R. Blinn U of M 1530 Cleveland Avenue North St. Paul, MN 55108 Telephone:(612) 624-3788 Fax: (612) 625-5212 E-mail: cblinn@forestry.umn.edu

RESEARCH

Overall Project Outcome and Results

The purpose of this long-term effectiveness monitoring study is to determinate the extent to which Minnesota's forest management guidelines, once applied, protect the site-level forest resources that are potentially impacted by timber harvesting activities. Within this biennium, the study objectives were to locate and establish treatment sites, harvest the sites, and collect pre-harvest and immediate post-harvest data.

Eight sites were established on public lands in northern Minnesota. Pre-treatment vegetation, stream, and breeding bird data were collected. Seven of the eight sites were harvested during the winter of 2003/2004 and immediate post-harvest data was collected.

Preliminary vegetation data suggest differences in canopy and regeneration biomass following harvest. Preliminary data for snag and coarse woody debris suggests that coarse woody debris volume increased following harvest treatments, but snag volume decreased slightly. Most of the increase in the volume of coarse woody debris was attributed to logging debris from harvest.

The streams represent the array of aquatic environmental conditions expected across northern Minnesota and can be broadly categorized as trout streams or mudminnow streams. There was much more variation in habitat and biota among streams than among reaches within streams.

Bird communities within the riparian area varied geographically and were related primarily to amount of coniferous and sugar maple vegetation on the sites. Breeding bird communities changed between years, with the riparian treatment plots showing a significant difference in community composition after the treatment was applied. More bird species that were associated with early-successional habitats occupied the treatment sites after they were harvested. This result is consistent with our previous breeding bird studies on riparian harvest that have been conducted in northern Minnesota over the past 10 years.

Additional project details are available through a separate report to LCMR.

Project Results Use and Dissemination

Because data collection is still taking place, data were only available for select variables at the time of project completion. As long-term data has yet to be collected or analyzed, it is too early to evaluate responses from the applied treatments. Most questions we are addressing need to be evaluated over the long-term and it may not be appropriate to draw conclusions even after all the first year post-harvest data is collected and summarized. Ongoing sampling will continue in the years to come and from this research we hope to better understand riparian forests and how timber harvests affect their function and productivity. We also hope to contribute to a greater understanding of how different silvicultural prescriptions applied within riparian zones can meet long-term ecological objectives of long-lived, diverse stands and healthy ecosystems.

This project completed June 30, 2004.

AGRICULTURAL LAND PRESERVATION

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Overall Project Outcomes and Results

This project consisted of five results to implement agricultural land preservation plans and programs and rfine and demonstrate agricultural land preservation tools:

- 1) The Development Impact Assessment Model (DIAMaTR) was used to study the local budgetary impact of alternative residential growth patterns, from compact to sprawling, in three cities (Oronoco, Pine Island, and Long Prairie), counties (Goodhue, Olmsted, and Todd), and townships (Oronoco, Pine Island, and Long Prairie); two water and sewer utilities (Pine Island and Long Prairie); and two school districts (Pine Island and Long Prairie-Grey Eagle).
- 2) An outline of curriculum on fiscal impact analysis and a training manual were produced.
- 3) A GIS-based agricultural land preservation model for identifying and prioritizing lands to be preserved for agricultural use was completed by Todd County.
- 4) An implementation program was produced for the Dakota County Farmland and Natural Areas Plan, leading to a \$20 million bond referendum to purchase easements for farmland and natural areas protection.
- 5) Contacts were made with over 150 landowners and over 30 personal conservation proposals were prepared, resulting in 29 farmland protection and 22 natural area protection applications. The County identified top priority farmland and natural area applications; and hired a Farmland and Natural Area Program Manager to negotiate these landowners.

Project Results Use and Dissemination

Six individuals were trained in use of DIAMaTR at the City of Pine Island, Region 5 and Region 7E Development Commissions. Presentation were made on agricultural land preservation, fiscal impact analysis and DIAMaTR results to the Oronoco City Council and planning and zoning committee (approximately 20 people in attendance), Pine Island city staff (three people), and the Todd County Board of Commissioners (approximately 40 people in attendance). In Dakota County, workshops were held with 8 cities and 9 townships, and program guidelines were released and posted on the website.

This project completed June 30, 2004.

ENVIRONMENTAL PRACTICES ON DAIRY FARMS

8(c) \$245,000 MFRF

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Overall Project Outcome and Results

The Minnesota Milk Producers Association (MMPA) and project partners developed the Environmental Quality Assurance (EQA) program.

The EQA program assists dairy producers in complying with environmental quality regulations and certifies producer achievement of rigorous environmental quality standards in five major topic areas (Water Quality, Odor and Air Quality, Soil Quality and Nutrient Management, Habitat Quality and Diversity, and Community Image).

The EQA program worked with a total of 105 Minnesota dairy producers of which 52 achieved EQA "FIVE-STAR" Certification.

Steps in the Process to Achieve EQA "FIVE-STAR" CERTIFICATION:

Step 1: Send in Your Application.

Step 2: Develop Your Environmental Action Plan.

Step 3: Implement Your Plan.

Step 4: Achieve EQA Certification.

Step 5: Continue to be a Positive Example of Excellence in Environmental

Stewardship.

Producers develop their farm's Environmental Action Plan based on how their farm scored on the EQA Assessment. The Assessment identifies levels of management practices in each of over 100 categories. The Assessment together with the farm's EQA Technician help the producer develop an Environmental Action Plan.

Producers were further encouraged to invest in environmental improvements by the EQA Incentive Fund which provided up to \$5000 per farm (1:1 match required) for projects identified in the farm's Environmental Action Plan. An investment of just over \$70,000 in EQA Incentive Funding resulted in more than \$345,000 in total projects completed (21% incentive).

Project Results Use and Dissemination

The EQA program has been recognized by USDA: NRCS in the EQIP docket for Minnesota and by the Minnesota Pollution Control Agency (MPCA) as a valuable tool for achieving environmental results.

MPCA and MMPA have agreed to work together to continue to make the EQA program available to Minnesota dairy producers.

This project completed June 30, 2003.

ACCELERATED TECHNOLOGY TRANSFER FOR STARCH-BASED PLASTICS

8(d) \$90,000 OOC Kim A. Stelson U of M - Department of Mechanical Engineering 111 Church Street SE Minneapolis, MN 55455 Telephone:(612) 625-6528 Fax: (612) 625-9395

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RESEARCH

Overall Project Outcome and Results

A patented process to make starch-based plastics has been developed University of Minnesota. U of M starch-based plastics are biodegradable and can be made from corn, wheat or soybeans. The purpose of this project is to help move this technology out of the laboratory and into everyday life. We will raise public awareness of biodegradable plastics by distributing spoons made of U of M starch-based plastic with milkshakes sold by the Gopher Dairy Club at the Minnesota State Fair. We will also distribute literature describing the benefits of this new technology.

Starch based plastic - a completely biodegradable material containing 70% Minnesota grown and renewable resource such as starch and proteins were injection molded into a milkshake spoons. The current polymer is a blend of natural and synthetic polymer and is completely biodegradable. It degrades in a compost as well as in soil and marine environments. The material can be processed into end products having acceptable physical and chemical properties pertaining to their end use. The increased environmental friendliness of the product may open an avenue for increased usage of farm commodities and other renewable resources. Melt processing (usually done in an extruder) is a continuous process with good controls and results in economic savings over batch processes. The blends proposed here are manufactured continuously in an extruder without using any solvents. There are no deleterious effects during processing or product development. Also, none of the materials (polymers and processing aids) have any negative side effects that require special handling (other than proper ventilation). Therefore, the environmental impacts of production are benign. The powders are mixed together with the necessary liquids, depending upon the specific formulation, and extruded into a resin which is then cooled and packaged in totes. The scrap produced at start-up and shut-down can be reground and used as rework without causing production or quality problems. This is also true for off-grade product produced through production error.

These spoons were used by the University of Minnesota Gopher Dairy Club, at their booth in the Minnesota State Fair during both 2002 and 2003. A total of 140,000 spoons were distributed over the two years. In addition, pamphlets giving information on the product was also distributed to interested individuals. One outcome of this project is that a venture capital company (Yankee Tech Ventures) have taken the lead in conducting market research to develop price structure for disposable cutleries.

This project completed June 30, 2003.

Energy

USING BIODIESEL IN GENERATORS

09 \$90,000 OOC Kenneth L. Bickel U of M - Center for Diesel Research 111 Church Street SE Minneapolis, MN 55455-0150 Telephone: (612) 625-3864

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Overall Project Outcome and Results

The objective of this project was to evaluate biodiesel fuel for producing electricity, Laboratory testing and a field demonstration were conducted to determine generator performance and the change in emissions when biodiesel blends were used.

Initially, screening tests using a NOx- reducing fuel additive and biodiesel blends were conducted to see if the fuel additive could offset the increase in NOx emissions that normally occurs using biodiesel. The fuel additive was not effective at reducing NOx in the biodiesel blends. Full emissions tests of the biodiesel blends with charge-air cooling demonstrated that significant particulate, CO and gaseous HC reductions can be achieved using B20 or B85 while lowering emissions of NOX. Particulate emissions were reduced by up to 30 %, while NOx reductions of up to 19% were observed. The use of a catalytic convertor increased particulate emissions using B20, but reduced particulate emissions when used with B85. No significant change in generator performance was observed.

Based on lab test results, a B20 biodiesel blend combined with supplemental charge air-cooling was demonstrated on a standby generator at the School of Environmental Studies at the Minnesota Zoo in Apple Valley. Comparable emissions reductions were measured.

Utilities, regulators, policy makers and others interested in producing power from renewable energy sources can use the results from this study, The use of biodiesel for generating electricity can benefit Minnesota by increasing the market for soybean oil and decreasing dependence on fossil fuels, reducing emissions from generators, and by helping utilities meet state goals for producing electricity form renewable energy sources. The project results are summarized in a separate report entitled "Using Biodiesel in Generators."

In addition, a brief project description and pictures from the field demonstration are available at the Center for Diesel Research Center's web page (http://www.me.umn.edu/centers/cdr/zooschoo)/

This project completed June 30, 2003.

ENVIRONMENTAL EDUCATION

UNCOMMON GROUND: AN EDUCATIONAL TELEVISION SERIES GOVERNOR VETO

10(a) \$455,000 TF

Barbara Coffin

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To complete production of a multipart televised film series of the history of Minnesota's natural landscapes.

Legal Citation: ML 2002, Chapter 220, Section 8, Subd. 1 \$254,000 TF

Match: \$200,000 Barbara Coffin

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Overall Project Outcome and Results: Minnesota: A History of the Land (formerly titled Uncommon Ground: Minnesota's Once and Future Landscapes) is a four-hour documentary that chronicles changes in Minnesota's landscapes from the time of glaciers to the impacts of today's urban sprawl, providing powerful context for understanding the State's current environmental challenges. Viewers will learn that the best hope for the health of these lands rests with the people who live in them, and who care for them. The series is scheduled to premier on Twin Cities Public Televison in the winter of 2005. A companion website (www.historyoftheland.org) will provide extension materials including a teacher's guide with lesson plans (6-8 grade level), a viewer's guide (high school to adult audiences), and information for ordering DVD, VHS and other related series materials. Lesson plans and discussion questions associated with the teacher's and viewer's guides will be available for free in downloadable format from the project's website.

Minnesota: A History of the Land a \$2 million dollar project, has been sponsored by a partnership of public and private funding sources. The Minnesota Environmental Trust Fund as recommended by LCMR has played a critical role in bringing this innovative environmental education project to students and citizens of Minnesota through leadership funding in both Phase I and Phase II of this multi-year project.

<u>Program Results Use and Dissemination</u>: There has been much interest in the *Minnesota: A History of the Land* series (to be completed December 2004) even though it is not yet fully completed and has not yet premiered publicly. The series has been featured in teacher workshops (spring 2004) held by the MN Historical Society, used as classroom material in three University classes over the last three years, featured in a keynote address at the MN Environmental Atlas Conference, and the subject of college seminars. Computer animations from the series have been incorporated in the new *Forest Forecasting* exhibit at the Forest History Center. A proposal is pending to create instructional DVD curriculum from the series' materials for a statewide Master Naturalist training program. Numerous additional requests have been made for use of footage (natural history b-roll, interviews and animated graphics) from the series' extensive digital library.

The programs will be disseminated to a diverse audience through a variety of venues including: a) the general public through broadcast on public television stations statewide; b) to Minnesota's middle school students in partnership with the popular *Northern Lights* Minnesota history curriculum; and c) to natural resource professionals, college students, policymakers; and interested citizens through University Extension and Continuing Education.

This project completed June 30, 2004.

WATERSCAPES: OUTDOOR NON-POINT SOURCE POLLUTION EDUCATION

10(b) \$265,000 TF
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Overall Project Outcome and Results

WaterScapes is a key element of the **Big Back Yard**, the Museum's 1.2-acre outdoor science park. WaterScapes consists both of exhibits and landscape elements that call attention to non-point source pollution (NPS) and that model approaches intended to ameliorate NPS.

The primary results of the *WaterScapes* project were the development and construction of the Big Back Yard and the fabrication and installation of the NPS exhibits and landscape elements within it. The overall organizing framework for the *WaterScapes*portion of the Big Back Yard is 'source to sink' – sediment erosion, transport, and deposition.

Three of the nine miniature golf holes address NPS – urban stormwater runoff, rural drain tiling, and impervious vs. pervious landscapes. They are embedded in an educational landscape that highlights better management of runoff through native vegetation plantings, pervious pavement, and rainwater infiltration gardens.

Project Results, Use, and Dissemination

The Big Back Yard opened on June 26, 2004. As of August 8,2004 over 16,000 children and adults already had played the nine-hole miniature golf course and explored the park. The park has received prominent print and broadcast coverage (e.g. the StarTribune, St. Paul Pioneer Press, Highland Villages, The Avenues, The Forum, MPR, KARE-11, WCCO, KMSP).

Dragonfly TV, a nationally-distributed science program for youth produced by Twin Cities Public Television, used the Big Back Yard in July as a location to shoot pieces for an upcoming episode about rivers and landscape processes. The exhibit developer and owner's representative for the Big Back Yard are now providing the expertise they acquired on the project to Putting Green, Inc, which is in the process of constructing an environmental education park on the banks of the Minnesota River in New Ulm.

This project completed June 30, 2004.

SUSTAINABLE INNER- CITY COMMUNITIES THROUGH ENVIRONMENTAL LITERACY

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Overall Project Outcome and Results

The Sustainable Inner City Communities was a comprehensive environmental education, leadership and project with far-reaching impact. It increased citizen participation within inner-city communities We surpassed our original by serving roughly 30,000 people through 7 result areas (See Appended Table):

- 1. **School Environmental Education Outreach-** More than 2,000 students in 7 urban schools studied topics ranging from Asthma to Sustainability.
- 2. Community Environmental Health Outreach- Approximately 15,000 inner-city residents reached through community forums, media, local presentations, expos

- and by work with ethnic community trainers on such Issues as Lead Poisoning, Asthma, Pesticides.
- 3. **Teacher & Practitioner Training -** For 30 professionals who work with inner-city youth. Trainings provided insights/tools for delivering culturally relevant science education.
- 4. *EnvironMentors*, Youth Development An Integrated approach introducing 80 innercity youth to careers in environmental, agricultural and science fields, field trips, Career Fair, guest speakers, mentors, workshops, urban gardening & landscaping Science Camp & clubs
- 5. Youth Environmental Leadership Summit& Community Service Learning In 2 spring/summer programs we introduced 75 urban teens to environmental issues and activism through direct experience, field trips and service learning.
- Summer Environmental Day Camp- Engaged 80 children ages 6 –13 through the integration of performing arts with environment, science, field trips and service learning projects
- 7. **Urban Agriculture & Community Gardening-** Engaged inner-city families and students in intergenerational and peer gardens

Project Results Use and Dissemination

Project report and portions of written curricula will be posted on Sabathani's website: www.sabathani.org It has been featured in the Minnesota State Lottery's traveling exhibit and video. Components of our project, such as the youth leadership summit and the community environmental health & equity programs have served as springboards by other groups in Minneapolis such as the Urban League and Head Waters. Presentations have been made to cultural community groups as well as at schools.

This project completed June 30, 2003.

INTEGRATED PEST MANAGEMENT IN SCHOOLS

10(d) 180,000 MFRF

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The Minnesota Department of Agriculture (MDA) developed pest management informational materials and an integrated pest management (IPM) training workshop for K-12 public and private school personnel in maintenance roles. An IPM in schools trainer was hired in a full time temporary position. The MDA produced eight new IPM in schools facts sheets. These new IPM fact sheets along with eight previously produced IPM fact sheets were mass produced. The fact sheets included an IPM overview, eight for different insects, three for weed management, two on plant disease, one for rats and mice, and one for pesticide management. Fact sheets are available on the MDA web site at:

www.mda.state.mn.us/ipm/ipmpubs.htmlIn addition to fact sheets, IPM in schools resource materials and five IPM in Schools Power Point Presentations were developed for use in the workshops. The trainer completed a total of 22 workshops. A total of 414 Independent School Districts and 658 private schools were invited to workshops held state-wide of which a total of 327 individuals attended the workshops. This included individuals from 64 Independent School Districts, 15 private schools, and ten

individuals from health and safety organizations who work with schools. Individuals who attended the workshops received an overview of how to use IPM in their school settings. Participants were satisfied to learn that if they have a pest problem, there are many management alternatives to the use of pesticides. The workshop information also helped them in understanding the Parents' Right to Know legislation. Additionally, the MDA completed a state-wide mailing of IPM in Schools informational materials to 2,830 school principals. The mailing included a cover letter, set of IPM fact sheets, head lice poster, and resource material handout.

For the period ending June 30, 2003

BURN. PLANT AND LEARN: RESTORING UPLAND HABITATS

10(e) \$230,000 TF
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RESEARCH

Overall Project Outcome and Results

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- Overall, Burn, Plant and Learn has protected eight acres of habitat and directly assisted with the
 restoration of over 39 acres of prairie. Through outreach, technical assistance, and equipment
 lending, over 75 individuals, private landowners, or conservation groups have been assisted or
 educated in creating highly diverse prairie restorations.
- Research conducted through *Burn*, *Plant and Learn* will have a significant impact toward advancing the commitment and techniques for creating more diverse prairie habitats.
- Acquisition and permanent protection of eight acres of key habitat bordered by 160 acres of SCWRS preserved lands, adding to the existing the St. Croix Greenway Corridor
- Restoration of 28 acres to high diversity prairie for four landowners within Washington Co.
- Initiation of two major prairie restoration research studies encompassing six acres of the purchased site, and five acres of adjacent lands; serving as both restorations of native habitat and as study sites to evaluate techniques that increase floristic diversity in restorations.
- Development of a restoration equipment lending program providing access to a tractor, harrow, disk, sprayer and burn equipment.
- Leasing of equipment to eight different landowner/groups, assisting in the restoration of 22 acres, totaling over 145 hours of use.
- Creation of a shared restoration-research internship program between Bethel college and the SCWRS; sponsoring three undergraduate interns assisting with field research and restoration

Project Results Use and Dissemination

- Results from the two restoration-research studies: 1) Techniques for maximizing diversity in prairie restorations, 2) Role of floristic diversity in improving habitat quality of grassland restorations, were presented at three major conferences.
- Presentation by SCWRS staff on maximizing diversity in prairies were given to 7 local conservation organizations. SCWRS hosted three seminars/demonstration tours helping to educate over 60 participants on techniques to enhance habitat value in restorations.

This project completed June 30, 2004.

CONNECTING WITH WILDLIFE AT THE MINNESOTA ZOO

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Overall Project Outcome and Results

This integrated system of interpretive graphics and activities maximizes the educational impact of the Minnesota Zoo's natural areas and plant and animal collections to promote environmental literacy and stewardship. The *Connecting with Wildlife* project creates interactive educational experiences and provides increased opportunities for dynamic interaction with wildlife. The project provides environmental education opportunities to 1 million annual Minnesota Zoo visitors.

Minnesota Zoo visitors should better understand the significance of natural resources, sustainability, biodiversity and efforts to conserve animal and plant species. These interpretive displays also present ecological, zoological, botanical and cultural information to emphasize the interrelationships between people and nature and to encourage environmental stewardship.

Project Results Use and Dissemination

The Connecting with Wildlife at the Minnesota Zoointerpretive graphics are a primary way for an estimated 1 million annual Minnesota Zoo visitors to interact with conservation-related information and better understand the positive and negative environmental consequences of their daily choices.

A follow-up evaluation of visitor and tiger reaction to the changes in the tiger exhibits is on-going. Preliminary results indicate that the interactives are being used by many visitors. Viewing times spent at the improved exhibits range from 1.5-4.5 minutes/visitor group which based on previous average times of 30 seconds to a minute show that our improved educational message is engaging our visitors. The new exhibits have also raised over \$1500 to date for tiger conservation programs.

Other zoos across the country have shown interest in viewing photos and gleaning ideas about our new tiger interpretive displays for their own exhibits. A presentation on the new exhibits and preliminary results from the follow-up evaluation for tiger exhibits at the Minnesota Zoo was given to the Tiger Species Survival Plan meeting at the annual national meeting of the American Zoo and Aquarium Association in Fort Worth, TX in September of 2002.

This project completed June 30, 2003.

PROJECT GREEN START: ENVIRONMENTAL EDUCATION

10(g) \$340,000 MFRF
Bette Schmit (org. project manager - Marcie Oltman)
Minnesota Children's Museum
10 West 7th Street
St. Paul, MN 55102
Telephone:(651) 225-6085
Fax: (651) 225-6006

E-mail: greenstart@mcm.org

Web Address: http://www.mcm.org

Overall Project Outcome and Results

Earth World is Minnesota Children's Museum's most popular permanent gallery. Earth Worldncludes a series of Minnesota habitats that guide and encourage children to explore the seasons and cycles within wetland, forest and prairie. It is an immersive environment that allows visitors an opportunity to get an "inside" view of the wonders and mysteries of nature. More than 370,000 Museum visitors are introduced to Minnesota habitats and environmental concepts each year in Earth WorldThis includes 71,469 school age children (7,000 from a partnership with the St. Paul School District for K-2) and 1,616 Access members and their families (memberships given to lower income families through programs with Ramsey County RAP Headstart, Habitat for Humanity, Anoka County Headstart and the Museum Adolescent Parent Program).

With the funding the Children's Museum updated and strengthened two main habitats in the *Earth World* gallery – wetland and forest. In these areas, the following exhbits were designed and fabricated: a large freshwater aquarium that allows display and interpretation of native turtles and fish; an interactive turtle shell that supports dramatic play; a bouldering wall that allows children to "climb" laterally on a replicated stone surface, allowing practice and development of gross motor skills; a beaver den that allows children to "become a beaver" by putting on beaver costumes and entering the beaver den; a stream and water play area where children can explore the properties of flowing water using natural materials; and, a renovated ant hill maze. At the same time, educational activities were added to extend the learning experience about Minnesota habitats. The redevelopment includes new baby animal components and the Lodge, where staff conduct informal educational programs aimed at teaching children about the Minnesota habitats of wetland, forest and prairie.

This project completed April 30, 2003.

RAPTOR PROPAGATION: STUDENT EDUCATION

10(h) \$35,000 MFRF
Andrew Weaver
Stillwater Area High School
5701 Stillwater Area High School, Stillwater Blvd. N
Stillwater, MN 55082
Telephone:(651) 351-8240

Fax: (651) 351-8049

E-mail: weavera@stillwater.K12.MN.US
Web site: falcon.stillwater.k12.mn.us

Funding was provided to Stillwater Area High School to build a captive breeding facility for raptors and develop associated education activities. Three falcon breeding chambers were constructed. The live images are available on the web site.

This project completed February 2002.

HENNEPIN PARKS FARM EDUCATION

10(i) \$100,000 MFRF
Tom McDowell
Suburban Hennepin Regional Park District
3000 Xenium Lane North
Plymouth, MN 55441
Telephone:763-559-6705
Fax: 763-559-3287

E-mail:Tmcdowell@threeriversparkdistrict.org Web Address: www.threeriversparkdistrict.org.

Overall Project Outcome and Results

An agriculture education program was developed at Hennepin Parks' newest facility, Gale Woods Farm, to create opportunities for K-12 students and the general public to develop a basic understanding of agriculture.

The Park District hired a program coordinator to oversee the planning and development of a working educational farm including:

- 22 acres of pasture
- 13 breeds of sheep, 5 breeds of chickens, 1 breed of beef cattle and a working sheep dog
- 5 acres of gardens and orchards
- barn with a safe and enjoyable classroom and efficient livestock housing.

Learning stations were constructed to facilitate self-guided tours. These learning stations include:

- Two-panel kiosk detailing the history of the land, the Gale family and farming on site.
- Three-panel kiosk presenting information about contemporary agriculture and small-diversified farms
- Five trail signs located along the self-guided route explaining the elements of the farm.

In addition to establishing the farm elements, the program coordinator researched curriculum and developed meaningful ways to involve youth in farming. The groundwork and infrastructure were completed for The Community Food Project, a program engaging inner city and suburban youth and students from Augsburg College in growing produce for sale at farmer's markets. This project's funding helped develop the infrastructure and organization to initiate the Community Food Program.

Project Results Use and Dissemination

This project's funding provided for the initial development of the program at Gale Woods. To date approximately 750 school students, and 500 public visitors have attended programs at Gale Woods. The park officially opens in August 2003. With the assistance of this grant, the facility now has the capacity to serve up to 10,000 school students per year in addition to unlimited visits from the general public.

This completed June 30, 2003.

RESIDENTIAL ENVIRONMENTAL EDUCATION FOR YOUTH

10(j) \$90,000 MFRF Kurt Marple Camp Courage 8046 83rd Street NW Maple Lake, MN 55358 Telephone:(320)963-3121

Fax: (320)963-3698

E-mail: eecccourage@yahoo.com

Web Address: http://www.courageelc.org/

Camp Courage provided 2,649 student contact days to 35 MN school groups. A student contact day (student day) is determined by the number of nights stayed at Camp Courage. It typically includes four class periods, three meals, evening programs and one night's lodging.

At an average calculated cost of \$33.37 per student per day, Camp Courage reached students that have not had such an opportunity, within the past three years, due to geographic location or financial

limitations. Camps normal range of groups includes 3rd through 8th grand and special needs students. The latter groups are often ungraded and can be housed in any school including high schools. This program was offered to students from the general school population, but Courage is highly experienced in integrating students with special needs and students from diverse ethnic and cultural backgrounds.

Full scholarships were awarded to first-year schools during the 2001-2002 school year. Half scholarships were awarded to schools that retuned during the 2002-2003 school year and to first-year schools during the fall of 2002. From January to May of 2003 full scholarships were awarded to first year schools.

Schools realize the value of residential environmental education and renew their commitment for future years. Of the seven school groups that attended during the fall of 2002, six of them reserved dates for the fall of 2003. These schools have found the resources to continue the experience now that the grant is over.

This project completed June 30, 2003.

UNCOMMON GROUND: AN EDUCATIONAL TELEVISION SERIES

Legal Citation: ML 2002, Chapter 220, Section 8, Subd. 1 \$254,000 TF

Match: \$200,000 Barbara Coffin

Institute for Sustainable Natural Resources

College of Natural Resources, University of Minnesota

250 Skok Hall, 2330 Upper Buford Circle

St. Paul, MN 55108 Phone: (612) 624-4986 Fax: (612) 624-8701 E-mail: bcoffin@umn.edu

Web Page Address: www.cnr.umn.edu/CCE

Overall Project Outcome and Results: Minnesota: A History of the Land (formerly titled Uncommon Ground: Minnesota's Once and Future Landscapes) is a four-hour documentary that chronicles changes in Minnesota's landscapes from the time of glaciers to the impacts of today's urban sprawl, providing powerful context for understanding the State's current environmental challenges. Viewers will learn that the best hope for the health of these lands rests with the people who live in them, and who care for them. The series is scheduled to premier on Twin Cities Public Televison in the winter of 2005. A companion website (www.historyoftheland.org) will provide extension materials including a teacher's guide with lesson plans (6-8 grade level), a viewer's guide (high school to adult audiences), and information for ordering DVD, VHS and other related series materials. Lesson plans and discussion questions associated with the teacher's and viewer's guides will be available for free in downloadable format from the project's website.

Minnesota: A History of the Land a \$2 million dollar project, has been sponsored by a partnership of public and private funding sources. The Minnesota Environmental Trust Fund as recommended by LCMR has played a critical role in bringing this innovative environmental education project to students and citizens of Minnesota through leadership funding in both Phase I and Phase II of this multi-year project.

Program Results Use and Dissemination: There has been much interest in the *Minnesota: A History of the Land* series (to be completed December 2004) even though it is not yet fully completed and has not yet premiered publicly. The series has been featured in teacher workshops (spring 2004) held by the MN Historical Society, used as classroom material in three University classes over the last three years, featured in a keynote address at the MN Environmental Atlas Conference, and the subject of college seminars. Computer animations from the series have been incorporated in the new *Forest Forecasting* exhibit at the Forest History Center. A proposal is pending to create instructional DVD curriculum from the series' materials for a statewide Master Naturalist training program. Numerous

additional requests have been made for use of footage (natural history b-roll, interviews and animated graphics) from the series' extensive digital library.

The programs will be disseminated to a diverse audience through a variety of venues including: a) the general public through broadcast on public television stations statewide; b) to Minnesota's middle school students in partnership with the popular *Northern Lights* Minnesota history curriculum; and c) to natural resource professionals, college students, policymakers; and interested citizens through University Extension and Continuing Education.

This project completed June 30, 2004.

Send comments regarding this site to: lcmr@commissions.leg.state.mn.us

Updated: 12/28/04 (ss)

III. Project Description

"a description of each project receiving money from the trust fund during the preceding biennium; a summary of any research project completed in the preceding biennium..."

The following documents are short abstracts for projects funded during the 2004-2005 biennium. The abstracts describe the general accomplishments of each project as well as providing selected specific details, such as amount of land impacted, species studied, number of school children reached, or products produced. Research projects have been marked as such in the description. Full workprograms are available at the LCMR office Room 65, State Office Building. The abstracts are current as of 12/30/04.



LCMR 2003 PROJECT ABSTRACTS

Laws 2003, Chapter 128, Article 1, Section 9 (July 1, 2003 through June 30, 2005)

The following documents are short abstracts for projects funded during the 2004-2005 biennium. The final date of completion for these projects is listed at the end of the abstract. When available, we have provided links to a projects web site. The sites linked to on this page are not created, maintained, or endorsed by the LCMR office or the Minnesota Legislature. If you would like further information about specific projects, please contact the appropriate program manager at the address or phone number listed.

Subd. 3 - Administration

03(a) Legislative Commission on Minnesota Resources

03(b) LCMR Study Commission on the Park System

03(c) Contract Administration

Subd. 4 - Advisory Committee

Subd. 5 - Fish & Wildlife Habitat

05(a) Restoring Minnesota's Fish and Wildlife Habitat Corridors - Phase

ij

05(b) Metropolitan Area Wildlife Corridors

05(c) Restoring RIM Match

05(d) Acquisition & Development of Scientific and Natural Areas

05(e) Forest and Prairie Stewardship of Public & Private Lands

05(f) Local Initiative Grants (Conservation Partners & Env.

Partnerships)

05(g) Minnesota ReLeaf Community Forest Development and Protection

05(h) Developing Pheromones for Use in Carp Control - Research

05(i) 1 Biological Control of European Buckthorn and Spotted

Knapweed- Research

05(i) 2 Biological Control of European Buckthorn and Spotted

Knapweed- Research

05(j) Resources for Redevelopment of Brownfields to Greenspace

Subd. 6 - Recreation

06(a) State Park and Recreation Area Land Acquisition

06(b) LAWCON Federal Reimbursements

06(c) Local Initiative Grants (Parks and Natural Areas)

06(d) Metropolitan Regional Parks Acquisition, Rehabilitation and

06(e) Local and Regional Trail Grant Initiative Program

06(f) Gitchi-Gami State Trail

06(g) Water Recreation: Boat Access, Fishing Piers & Shorefishing

06(h) Mesabi Trail

06(i) Linking Communities Design, Technology & DNR Trail Resources

- 06(j) Ft. Ridgely Historic Site Interpretive Trail
- 06(k) Development and Rehabilitation of Minnesota Shooting Ranges
- 06(I) Land Acquisition, Minnesota Landscape Arboretum continuation

Subd. 7 - Water Resources

- 07(a) Local Water Planning (LWP) Matching Challenge Grants
- 07(b) Accelerating & Enhancing Surface Water Monitoring for Lakes & Streams
- 07(c) Intercommunity Groundwater Protection
- 07(d) TAPwaters: Technical Assistance Program for Watersheds
- 07(e)1 Wastewater Phosphorus Control and Reduction Initiative Research
- 07(e)2 Wastewater Phosphorus Control and Reduction Initiative Research
- 07(f) Maintaining Zooplankton (Daphnia) for Water Quality: Square Lake- Research

Subd. 8 - Land Use and Natural Resource Information

- 08(a) Minnesota County Biological Survey
- 08(b) Updating Outmoded Soil Survey
- 08(c)1 Mesabi Iron Range Geologic & Hydrologic Maps & Data Bases
- 08(c)2 Mesabi Iron Range Geologic & Hydrologic Maps & Data Bases

Subd. 9 - Agriculture & Natural Resource Industries

09 Native Plants and Alternative Crops for Water Quality-Research

Subd. 10 - Energy

- 10(a) Community Energy Development Program
- 10(b) Advancing Utilization of Manure Methane Digester Electrical

Subd. 11 - Environmental Education

- 11(a) Dodge Nature Center Restoration Plan
- 11(b) Bucks and Buckthorn: Engaging Young Hunters in Restoration
- 11(c) Putting Green Environmental Adventure Park: Sustainability

Subd. 12 - Children's Environmental Education

- 12(a) Healthy Schools: Indoor Air Quality and Asthma Management
- 12(b) Economic-based Analysis of Children's Environmental Health Risks
- 12(c) Continuous Indoor Air Quality Monitoring in MN Schools

<u>Funding Sources:</u> (**note: all projects are TF, unless otherwise noted)

Environment and Natural Resources Trust Fund (TF)

Oil Overcharge (OOC)

Great Lakes Protection Account (GLP)

ADMINISTRATION

Legislative Commission on Minnesota Resources

03(a) \$672,000

John Velin, Director

LCMR

100 Rev. Dr. Martin Luther King Blvd.

65 - State Office Building

St. Paul, MN 55155

Telephone:(651)296-2406

Fax: (651)296-1321

E-mail: lcmr@commissions.leg.state.mn.us

Web Address: http://www.commissions.leg.state.mn.us/lcmr/lcmr.htm

For the Administrative Budget for expenses of the LCMR. In addition, carryforward from 02-03 of \$196,000 for administrative expenses.

This project due to be completed: 6/30/2005

LCMR Study Commission on the Park System

03(b) \$26,000

John Velin, Director

LCMR

100 Rev. Dr. Martin Luther King Blvd.

65 - State Office Building

St. Paul, MN 55155

Telephone: (651) 296-2406

Fax: (651)296-1321

E-mail: lcmr@commissions.leg.state.mn.us

Web Address: http://www.commissions.leg.state.mn.us/lcmr/lcmr.htm

Evaluate the use of fees to assist the financial stability and the potential of fees to provide for self-sufficiency in Minnesota's park systems, including state parks, metropolitan regional parks, and rural regional parks in greater Minnesota. The study commission will report to the chairs of the senate and house environment finance committees by February 16, 2004.

This project due to be completed: 6/30/2005

Contract Administration

03(c) \$120,000

Bill Becker

DNR, Office of Management and Budget Services

500 Lafayette Road

St. Paul, MN 55155

Telephone:(651) 296-2406

Fax: (651)296-1321

E-mail: bill.becker@dnr.state.mn.us

Contract administration activities assigned to the commissioner for agreements with non-state agencies to receive project funding on a reimbursement basis.

This project due to be completed: 6/30/2006

ADVISORY COMMITTEE

Citizen Advisory Committee for the Trust Fund

04 \$45.000

100 Rev. Dr. Martin Luther King Blvd.

65 - State Office Building

St. Paul, MN 55155

Telephone:(651)296-2406

Fax: (651)296-1321

E-mail: lcmr@commissions.leg.state.mn.us

Web Address: http://www.commissions.leg.state.mn.us/lcmr/lcmr.htm

For expenses of the citizen advisory committee for the Environment & Natural Resources Trust Fund as provided in Minnesota Statutes, section 116P.06. The committee is appointed by the Governor and consists of 11 members, at least 1 from each of the 8 MN Congressional Districts. This project due to be completed: 6/30/2005

FISH AND WILDLIFE HABITAT

Restoring Minnesota's Fish and Wildlife Habitat Corridors - Phase II

05(a) \$4,850,000

Matt Holland

Pheasants Forever

679 W. River

New London, MN 56273

Telephone: 320-354-4377

Fax: 320-354-4377

E-mail: ringneck@tds.net

For the second biennium for acceleration of agency programs and cooperative agreements with Minnesota Deer Hunters Association, Ducks Unlimited, Inc., National Wild Turkey Federation, Pheasants Forever, the Nature Conservancy, Minnesota Land Trust, the Trust for Public Land, Minnesota Valley National Wildlife Refuge Trust, Inc., U.S. Fish and Wildlife Service, U.S. Bureau of Indian Affairs, Red Lake Band of Chippewa, Leech Lake Band of Chippewa, Fond du Lac Band of Chippewa, USDA-Natural Resources Conservation Service, and the board of water and soil resources to plan, restore, and acquire fragmented landscape corridors that connect areas of quality habitat to sustain fish, wildlife, and plants.

This project due to be completed: 6/30/2006

Metropolitan Area Wildlife Corridors

05(b) \$4,850,000

Peggy Booth

DNR

1200 Warner Rd

St. Paul. MN 55106

Telephone 651/772-7562

Fax: 651/772-7977

E-mail peggy.booth@dnr.state.mn.us

For acceleration of agency programs and cooperative agreements with the Trust for Public Land, Ducks Unlimited, Inc., Friends of the Mississippi River, Great River Greening, Minnesota Land Trust, and Minnesota Valley National Wildlife Refuge Trust, Inc., for the purposes of planning, improving, and protecting important natural areas in the metropolitan region, as defined by Minnesota Statutes, section 473.121, subdivision 2, through grants, contracted services, conservation easements, and fee acquisition. \$500,000 of this appropriation is for an agreement with the city of Ramsey for the Trott Brook Corridor acquisition. \$800,000 of this appropriation is for an agreement with the Rice Creek Watershed District for Hardwood Creek acquisition and restoration. Land acquired with this appropriation must be sufficiently improved to meet at least minimum management standards as determined by the commissioner of natural resources.

This project due to be completed: 6/30/2006

Restoring RIM Match

05(c) \$400,000

Kim Hennings

DNR

500 Lafayette Road

St. Paul, MN 55155

Telephone 651-297-2823

Fax: 651-297-4961

E-mail kim.hennings@dnr.state.mn.us

Acceleration of the RIM critical habitat matching program to acquire and enhance fish, wildlife, and native plant habitat. Up to \$27,000 of this appropriation is for matching the nongame program. This project due to be completed: 6/30/2005

Acquisition & Development of Scientific and Natural Areas

05(d) \$480,000

Bob Djupstrom

DNR

500 Lafayette Road

St. Paul, MN 55155

Telephone 651-297-2357

Fax: 651-2196-1811

E-mail bob.djupstrom@dnr.state.mn.us

Web www.dnr.state.mn.us/fish and wildlife/sna

To acquire and develop lands with natural features of state ecological or geological significance in accordance with the scientific and natural area program long-range plan.

This project due to be completed: 6/30/2005

Forest and Prairie Stewardship of Public & Private Lands

05(e) \$392,000

Peter Buesseler

DNR

1509 1st Ave. N

Fergus Falls, MN 56537

Telephone 218-739-7497

Fax: 218-739-7601

E-mail peter.buesseler@dnr.state.mn.us

Web www.foreststeward.org

\$147,000 to develop stewardship plans for private forested lands and implement stewardship plans on a cost-share basis and \$245,000 of this appropriation is to develop stewardship plans on private prairie lands and implement prairie management on public and private lands.

This project due to be completed: 6/30/2006

Local Initiative Grants (Conservation Partners and Environmental Partnerships)

05(f) \$512,000

Wavne Sames

DNR

500 Lafayette Road

St. Paul, MN 55155

Telephone 651-296-1567

Fax: 651-296-6047

E-mail wayne.sames@dnr.state.mn.us

For matching grants of up to \$20,000 to local government and private organizations for enhancement, research, and education associated with natural habitat and environmental service projects.

This project due to be completed: 6/30/2006

Minnesota ReLeaf Community Forest Development and Protection

05(a) \$514.000

Ken Holman

DNR / Tree Trust 500 Lafayette Road St. Paul, MN 55155 Telephone 651-296-9110 Fax: 651-296-5954 E-mail ken.holman@dnr.state.mn.us

For acceleration of the agency program and a cooperative agreement with Tree Trust to protect forest resources, develop inventory-based management plans, and provide matching grants to communities to plant native trees. At least \$350,000 of this appropriation must be used for grants to communities. This project due to be completed: 6/30/2006

Developing Pheromones for Use in Carp Control

05(h) \$100,000
Peter Sorensen
U of M - Fisheries and Wildlife
200 Hodson Hall
1980 Folwell Ave.
St. Paul, MN 55108
Telephone 612-624-4997
E-mail soren003@tc.umn.edu

RESEARCH

For research on new options for controlling common carp. This project due to be completed: 6/30/2006

Biological Control of European Buckthorn and Spotted Knapweed

05(i) 1 \$109,000 Luke Skinner DNR 500 Lafayette Road St. Paul, MN 55155 Telephone 651-297-3763 Fax: 651-296-1811

E-mail luke.skinner@dnr.state.mn.us

RESEARCH

To evaluate potential insects for biological control of invasive European buckthorn species. This project due to be completed: 6/30/2006

Biological Control of European Buckthorn and Spotted Knapweed

05(i) 2 \$89,000 Anthony Cortilet Dept. of Ag 90 West Plato Blvd. St. Paul, MN Telephone 651-282-6808 E-mail anthony.cortilet@state.mn.us

RESEARCH

To assess the effectiveness of spotted knapweed biological control agents. This project due to be completed: 6/30/2006

Resources for Redevelopment of Brownfields to Greenspaces

05(j) \$150,000

Megan Dobratz

MN Environmental Initiative

219 North 2nd Street, Suite 201

Minneapolis, MN 55401

Telephone 612-334-3388

Fax: 612-334-3093

E-mail mdobratz@mnh-ei.org

Web www.mn.ei.org

To identify and assess redevelopment of brownfields for recreation, habitat, and natural resource reuse.

This project due to be completed: 6/30/2005

RECREATION

State Park and Recreation Area Land Acquisition

06(a) \$1,500,000

Larry Peterson

DNR

500 Lafayette Road

St. Paul, MN 55155

Telephone 651-296-0603

Fax: 651-296-6532

E-mail larry peterson@dnr.state.mn.us

To acquire in-holdings for state park and recreation areas.

This project due to be completed: 6/30/2006

LAWCON Federal Reimbursements

06(b) \$2,000,000

Wayne Sames

DNR

500 Lafayette Road, Bx 10

St. Paul. MN 55155

Telephone 651-296-1567

Fax: 651-296-6047

E-mail wayne.sames@dnr.state.mn.us

For eligible state projects and administrative and planning activities consistent with Minnesota Statutes, section 116P.14, and the federal Land and Water Conservation Fund Act. This appropriation is contingent upon receipt of the federal obligation.

This project due to be completed: 6/30/2006

Local Initiative Grants (Parks and Natural Areas)

06(c) \$2,579,000

Wayne Sames

DNR

500 Lafayette Road, Box 10

St. Paul. MN 55155

Telephone 651-296-1567

Fax: 651-296-6047

E-mail wayne.sames@dnr.state.mn.us

For matching grants to local governments for acquisition and development of natural and scenic areas and local parks as provided in Minnesota Statutes, section 85.019, subdivisions 2 and 4a, and regional parks outside of the metropolitan area.

This project due to be completed: 6/30/2006

Metropolitan Regional Parks Acquisition, Rehabilitation and

06(d) \$3,339,000

Arne Stefferud

Metropolitan Council

230 East 5th Street

St. Paul, MN

Telephone 651-602-1360

Fax: 651-602-1442

E-mail arne.stefferud@metc.state.mn.us

Web www.metrocouncil.org/parks/parks.htm

For the acquisition, development, and rehabilitation in the metropolitan regional park system, consistent with the metropolitan council regional recreation open space capital improvement plan.

This project due to be completed: 6/30/2006

Local and Regional Trail Grant Initiative Program

06(e) \$320,000

Tim Mitchell

DNR

500 Lafavette Road

St. Paul, MN 55155

Telephone 651-297-1718

Fax: 651-297-5475

E-mail tim.mitchell@dnr.state.mn.us

Web www.dnr.state.mn.us

To provide matching grants to local units of government for the cost of acquisition, development, engineering services, and enhancement of existing and new trail facilities.

This project due to be completed: 6/30/2006

Gitchi-Gami State Trail

06(f) 1,300,000

Kevin Johnson

DNR

1568 Hwy #2

Two Harbors, MN 55616

Telephone 218-834-6240

Fax: 218-834-6639

E-mail kevin.johnson@dnr.state.mn.us

To design and construct approximately five miles of Gitchi-Gami state trail segments. This appropriation must be matched by at least \$400,000 of nonstate money. The availability of the financing from this paragraph is extended to equal the period of any federal money received. This project due to be completed equal to the period of any federal grant money received.

Water Recreation: Boat Access, Fishing Piers & Shorefishing

06(g) \$1,150,000

Michael Markell

DNR

500 Lafavette Road

St. Paul, MN 55155

Telephone 651-296-6413

Fax: 651-297-5475

E-mail mike.markell@dnr.state.mn.us

To acquire and develop public water access sites statewide, construct shore-fishing and pier sites, and restore shorelands at public accesses.

This project due to be completed: 6/30/2006

Mesabi Trail

06(h) \$380,000

Bob Manzoline

St. Louis and Lake Counties Regional Rail

801 SW Hwy 169, PO Box 627

Chisholm, MN 55719

Telephone 218-254-2575

Fax: 218-254-7972

E-mail bob.manzoline@ironworld.com

For the sixth biennium to acquire and developsegments of the Mesabi trail.

This project due to be completed equal to the period of any federal grant money received.

Linking Communities Design, Technology & DNR Trail Resources

06(i) \$184,000

Mary Vogel

U of M

141 Arch & Landscape

89 Church Street

Minneapolis, MN 55455

Telephone 612-626-7417

Fax: 612-626-7424

E-mail vogel001@tc.umn.edu

Web www.cala.umn.edu

To provide designs for up to three state trails incorporating recreation, natural, and cultural features.

This project due to be completed: 6/30/2005

Ft. Ridgely Historic Site Interpretive Trail

06(j) \$150,000

Tom Ellig

MN Historical Society

32469 Cty. Hwy 2

Morton, MN 56270

Telephone 507-697-6321

Fax: 507-697-6310

E-mail thomas.ellig@mnhs.org

Web www.mnhs.org

To construct a trail through the original fort site and install interpretive markers.

This project due to be completed: 6/30/2006

Development and Rehabilitation of Minnesota Shooting Ranges

06(k) \$240,000 Chuck Niska DNR 500 Lafayette Road, Bx 47 St. Paul, MN 55155 Telephone 651-297-2449

Fax: 651-297-3727

E-mail chuck.niska@dnr.state.mn.us

To provide technical assistance and matching cost-share grants to local recreational shooting and archery clubs for the purpose of developing or rehabilitating shooting and archery facilities for public use. Recipient facilities must be open to the general public at reasonable times and for a reasonable fee on a walk-in basis.

This project due to be completed: 6/30/2006

Land Acquisition, Minnesota Landscape Arboretum - continuation

06(I) \$350,000

Peter Olin

U of M- MN Landscape Arboretum

3675 Arboretum Blvd.

Chaska, MN 55318-96

Telephone 952-443-1412

Fax: 952-443-2946

E-mail peter@arboretum.umn.edu

Web www.arboretum.umn.edu

For the fifth biennium to acquire land for the arboretum. This appropriation must be matched by an equal amount of nonstate money.

This project due to be completed: 6/30/2006

WATER RESOURCES

Local Water Planning (LWP) Matching Challenge Grants

07(a) \$500,000 TF/GLPA

Dave Weirens

BWSR

1 West Water St., #200

St. Paul, MN 55107

Telephone 651-297-3432

Fax: 651-297-5615

E-mail david.weirens@bwsr.state.mn.us

Web www.bwsr.state.mn.us

To accelerate the local water planning challenge grant program under Minnesota Statutes, sections 103B.3361 to 103B.3369, through matching grants to implement high-priority activities in comprehensive water management plans, plan development guidance, and regional resource assessments.

This project due to be completed: 6/30/2006

Accelerating and Enhancing Surface Water Monitoring for Lakes & Streams

07(b) \$740,000

Daniel Helwig

MPCA, MN Lakes Assoc., Rivers Council, MN

520 Lafayette Road

St. Paul, MN 55155

Telephone 651-296-7215

Fax: 651-297-8324

E-mail daniel.helwig@pca.state.mn.us

Web www.pca.state.mn.us

For acceleration of agency programs and cooperative agreements with the Minnesota Lakes Association, Rivers Council of Minnesota, the Minnesota Initiative Foundation, and the University of Minnesota to accelerate monitoring efforts through assessments, citizen training, and implementation grants.

This project due to be completed: 6/30/2006

Intercommunity Groundwater Protection

07(c) \$125,000

Amanda Goebel

Washington County

PO Box 6

Stillwater, MN 55082

Telephone 651-430-6744

Fax: 651-430-6730

E-mail amanda.goebel@co.washington.mn.us

Web www.co.washington.mn.us

For groundwater monitoring, modeling, and implementation of management strategies.

This project due to be completed: 6/30/2005

TAPwaters: Technical Assistance Program for Watersheds

07(d) \$160,000

James Almendinger

Science Museum of Minnesota-SCWRS

16910 - 152nd Street North

Marine on St.Croix, MN 55047

Telephone 651-433-5953

Fax: 651-433-5924

E-mail dinger@smm.org

Web www.smm.org/SCERS/

To assess the St. Croix river and its tributaries to identify solutions to pollution threats.

This project due to be completed: 6/30/2006

Wastewater Phosphorus Control and Reduction Initiative

07(e)1 \$296,000

Ken Robinson

MN Environmental Science and Economic Review

400 - 2nd Street South

St. Cloud, MN 56301

Telephone 320-650-2812

Fax: 320-650-2830

E-mail krobinson@ci.stcloud.mn.us

Web www.meserb.org

RESEARCH

To assess phosphorus reduction techniques at wastewater treatment plants.

This project due to be completed: 6/30/2005

Wastewater Phosphorus Control and Reduction Initiative

07(e)2 \$244,000 Marvin Hora PCA 520 Lafayette Road St. Paul, MN 55155 Telephone 651/296-7201 Fax: 651/297-7709 E-mail Marvin.Hora@state.mn.us

RESEARCH

Overall Project Outcome and Results

The Minnesota Pollution Control Agency project had two efforts, 1) determination of the sources and relative contributions of non-ingested phosphorus which enters municipal wastewater treatment plants and 2) determination of the amount of all phosphorus contributed to waters of the state by point and nonpoint sources of pollution.

Phosphorous enters lakes and streams from both point sources (largely wastewater treatment facilities) and non-point sources (runoff from land areas). Statewide, under average flow conditions, point sources contribute about 31 percent of the total phosphorous load in Minnesota's surface waters. Sources are (from highest to lowest amounts):

- Commercial/industrial process water (12 percent)
- Human waste products (10.9 percent)
- Food wastes (from dishwashing and garbage disposal, 4.2 percent)
- Residential automatic dishwasher detergent (1.9 percent)
- Commercial automatic dishwasher detergent (0.9 percent)
- Raw/finished water supply (drinking-water additives, 0.8 percent)
- Dentifrices (toothpaste, oral products, 0.3 percent)
- Non-contact cooling water (which industrial sources discharge directly to surface waters, 0.2 percent)
- Groundwater inflow and infiltration to sewer systems, <0.1 percent).

Statewide, under average flow conditions, <u>nonpointsources</u> contribute about 69 percent of the total phosphorous load to the state's surface waters. Sources include (from highest to lowest):

- Cropland and pasture runoff (26 percent)
- Atmospheric deposition (13 percent)
- Streambank erosion (11 percent)
- Lesser amounts from non-agriculture rural runoff, urban runoff, individual sewage treatment systems and unsewered communities, agricultural tile drainage, roadway and sidewalk deicing chemicals, and feedlots make up the rest of the contributions.

Phosphorous from non-ingested sources (those not passing through the human digestive tract) make up about 58 percent of the total amount of phosphorus entering municipal wastewater treatment systems each year. Making up this 58% are:

- commercial/industrial process water (27 percent)
- food wastes (16 percent)
- residential and commercial automatic dishwasher detergent (11 percent)
- the remaining sources, including dentifrices, non-contact cooling water, drinking-water treatment agents, and groundwater inflow/infiltration, make up approximately four percent.

Project Results Use and Dissemination

- The report is available on the Minnesota Pollution Control Agency Web Site.
- 25 Full copies of final report have been distributed
- 300 CD copies of the report have been distributed
- 350 copies of the Executive Summary have been distributed

The report will form the basic source for future Legislative Policy decisions regarding phosphorus control in Minnesota.

This project completed 7/8/04.

Maintaining Zooplankton (Daphnia) for Water Quality: Square Lake

07(f) \$32,000

Leif Hembre

Marine-on-St. Croix Water Mgmt Organization

c/o Dean Tharp

14089 Oakland Rd.

Stillwater, MN 55082

Telephone 651-699-1045

Fax: 651-523-2620

E-mail lhembre@g.w.hamline.edu

To determine whether trout predation on Daphnia significantly affects Daphnia abundance and water quality of Square Lake, Washington county.

This project due to be completed: 6/30/2006

LAND USE AND NATURAL RESOURCE INFO

Minnesota County Biological Survey

08(a) \$900,000

Carmen Converse

DNR

500 Lafayette Road

St. Paul, MN 55155

Telephone 651-296-9782

Fax: 651-296-1811

E-mail carmen.converse@dnr.state.mn.us

Web www.dnr.state.mn.us/ecological

For the 9th biennium to accelerate the survey that identifies significant natural areas and systematically collects and interprets data on the distribution and ecology of native plant communities, rare plants, and rare animals.

This project due to be completed: 6/30/2005

Updating Outmoded Soil Survey

08(b) \$236,000

Greg Larson

BWSR

1 West Water Street, #200

St. Paul, MN 55107

Telephone 612-624-3427

Fax: 612-625-1244

E-mail greg.larson@bwsr.state.mn.us

Web www.bwsr.state.mn.us

To continue updating and digitizing outmoded soil surveys in Fillmore, Goodhue, Dodge, and Wabasha counties in southeast Minnesota. Participating counties must provide a cost share.

This project due to be completed: 6/30/2006

Mesabi Iron Range Geologic & Hydrologic Maps & Data Bases

08(c)1 \$115,000

John Adams

DNR

1201 East Highway 2

Grand Rapids, MN 55744

Telephone 218-327-4110

E-mail john.adams@dnr.state.mn.us

To develop a database of hydrogeologic data across the Mesabi iron range.

This project due to be completed: 6/30/2005

Mesabi Iron Range Geologic & Hydrologic Maps & Data Bases

08(c)2 \$131,000

Dale Setterholm

U of M / DNR

2642 University Ave. West

St. Paul, MN 55114-1057

Telephone 612-627-4780

Fax: 612-627-4778

E-mail sette001@umn.edu

Web <u>www.geo.umn.edu/mgs</u>

To develop geologic and hydrogeologic maps of the Mesabi iron range.

This project due to be completed: 6/30/2005

AGRICULTURE AND NATURAL RESOURCE INDUSTRIES

Native Plants and Alternative Crops for Water Quality

09 \$622,000

Linda Meschke

Blue Earth River Basin Initiative / U of M

426 Winnebago Avenue, Suite 100

Fairmont, MN 56031-38

Telephone 507-238-5449

Fax: 507-238-4002

E-mail meschkel@berbi.org

Web www.berbi.org

RESEARCH

To accelerate the use of native plants and alternative crops through easements, demonstration, research, and education in cooperation with the University of Minnesota.

This project due to be completed: 6/30/2006

ENERGY

Community Energy Development Program

10(a) \$519,000 OOC

Mike Taylor

MN Dept of Commerce 85 - 7th Place East, #500

St. Paul, MN 55101

Telephone 651-296-6830

Fax: 651-297-7891

E-mail mike.taylor@state.mn.us

Web www.commerce.state.mn.us

Carlton Wind Turbine Web link:

http://webapps.acs.carleton.edu/campus/facilities/Sustainability/wind_turbine/

Construction Photos: http://webapps.acs.carleton.edu/news/?content=content&module=&id=63797

To assist communities in identifying cost-effective energy projects and developing locally owned wind energy projects through local wind resource assessment and and financial assistance.

This project due to be completed: 6/30/2005

Advancing Utilization of Manure Methane Digester Electrical

10(b) \$221,000

Paul Burns

MN Dept of Agriculture

90 West Plato Blvd.

St. Paul. MN

Telephone 651-296-1488

Fax: 651-297-7678

E-mail paul.burns@state.mn.us

Web www.mda.state.mn.us

To maximize use of manure methane digesters by identifying compatible waste streams and the feasibility of microturbine and fuel cell technologies.

This project due to be completed: 6/30/2005

ENVIRONMENTAL EDUCATION

Dodge Nature Center - Restoration Plan

11(a) \$83,000

Ben Van Gundy

Dodge Nature Center

365 Marie Avenue West

W. St. Paul, MN 55118

Telephone 651-455-4531

Fax: 651-455-2575

E-mail byangundy@dodgenaturecenter.org

Web www.dodgenaturecenter.org

To restore up to 155 acres at Dodge Nature Center in Mendota Heights.

This project due to be completed: 6/30/2005

Bucks and Buckthorn: Engaging Young Hunters in Restoration

11(b) \$255,000

Wiley Buck

Great River Greening

35 West Water Street, #201

St. Paul, MN 55107

Telephone 651-665-9500

Fax: 651-665-9409

E-mail wbuck@greatrivergreening.org

Web www.greatrivergreening.org

In cooperation with Great River Greening, Minnesota Deer Hunters Association, and the St. Croix Watershed Research Station for a pilot program linking hunting and habitat restoration opportunities for youth.

This project due to be completed: 6/30/2006, as amended in ML 2004, Ch. 255, Sec. 47

Putting Green Environmental Adventure Park: Sustainability

11(c) \$132,000

Laura Gamm

Putting Green, Inc.

PO Box 91

New Ulm, MN 56073

Telephone 507-354-7888

E-mail gamm@newulmtel.net

To construct educational exhibits for up to nine putting green learning stations in New Ulm.

This project due to be completed: 6/30/2005

CHILDREN'S ENVIRONMENTAL HEALTH

Healthy Schools: Indoor Air Quality and Asthma Management

12(a) \$168,000

Dale Dorschner

MN Dept of Health

Metro Square, PO Box 64975

121 East 7th Place, #220

St. Paul, MN

Telephone 651-215-0887

Fax: 651-215-0975

E-mail dale.dorschner@state.mn.us

Web www.health.state.mn.us

To assist school districts with developing and implementing effective indoor air quality and asthma management plans.

This project due to be completed: 6/30/2005

Economic-based Analysis of Children's Environmental Health Risks

12(b) \$95,000

Pamela Shubat

MN Dept of Health

PO Box 64975

St. Paul, MN

Telephone 651-215-0927

Fax: 651-215-0975

E-mail pamela.shubat@health.state.mn.us

Web www.health.state.mn.us/childreneh

To assess economic strategies for children's environmental health risks.

This project due to be completed: 6/30/2005

Continuous Indoor Air Quality Monitoring in MN Schools

12(c) \$300,000 Robert Schulte Schulte Associates, LLC 9072 Palmetto Drive Eden Prairie, MN 55347 Telephone 952-949-2676

Fax: 952-906-1228

E-mail <u>rhs@schulteassociates.com</u>
Web <u>www.schulteassociates.com</u>

To provide continuous, real-time indoor air quality monitoring in at least six selected schools. This project due to be completed: 6/30/2005

Send comments regarding this site to: lcmr@commissions.leg.state.mn.us

Updated: 12/28/04 (ss)

IV. Agency Implementation

"recommendations to implement successful projects and programs into a state agency's standard operations..."

Agency Implementation Recommendations for 2005 Biennial Report:

Recommendation 1

For the FY 06-07 funding cycle, the LCMR received a proposal for a collaborative study by the Metropolitan Council, DNR, and nonmetropolitan regional park representatives to analyze appropriate fees and markets for State Parks, Metropolitan Regional Parks and Non-metro Regional Parks. The proposed study was to gather information from the general public and from park visitors on potential fee levels for entry and facility rental to determine what the market would bear for each of the three primary recreation systems while retaining affordable access to the public. In addition, market data was to be collected to exam the niche that each of the three systems serves within the state and assess the potential overlap and identify underserved markets.

This proposal was designed to meet the fee structure recommendations of the LCMR Parks Study Group Report of February 2004.

While the LCMR did not recommend the proposal for funding from the Trust Fund in FY 06-07, the LCMR recommends that the state, regional and local agencies responsible for park management consider the ongoing analysis of fee structures for park access and facility rental as part of their ongoing park planning and management responsibilities

Recommendation 2

The LCMR will be revising the Strategic Plan for expenditures in the fall of 2005. At that time, this recommendation will be reviewed to reflect the assessment of recently completed projects. Incorporation into the strategic planning process and overview of Minnesota's natural resources and environmental needs will also enable a more timely review by the state agencies for possible submission of these recommendations into the executive budget process.

V. Recommendations

"to the extent known by the commission, descriptions of the projects anticipated to be supported by the trust fund during the next biennium..."

LCM	R RECOMMENDATIONS FOR FUN	DING		
Begi	nning July 1, 2005	·		
Recomme	endations of the Citizen Advisory Committee (CAC) are noted in the	right column.		
(Updat	ted: 12/21/2004)			
/d.#	Title	LCMR Funding Recommendations		CAC Rec
30/5% 03a	3. Administration LCMR Administrative Budget	899,000	LCMR	
03b	Contract Administration	150,000	DNR	
	Subtotal	1,049,000		
Solbida 4	4. Advisory Committee Citizen Advisory Committee (CAC) Budget; \$15,000 carryforward from 04-05 additional for total \$35,000	20,000	LCMR	CAC Rec
****	Subtotal	20,000		
Suba	5. Fish and Wildlife Habitat			
05a	Restoring Minnesota's Fish and Wildlife Habitat Corridors - Phase III	4,062,000	Various Organizations & DNR	CAC Rec
05b	Metropolitan Area Wildlife Corridors - Phase II	3,530,000	Various Organizations & DNR	CAC Rec
05c	Development of Scientific and Natural Areas	134,000	DNR	CAC Rec
05d	Prairie Stewardship of Private Lands	100,000	DNR	-
6.3	Local Initiative Grants (Conservation Partners & Environmental Partnerships)	500,000	DNR	CAC Rec
05f	Minnesota ReLeaf Community Forest Development and Protection	500,000	DNR .	
05g	Integrated and Pheromonal Control of Common Carp	550,000	U of M	CAC Rec
05h	Biological Control of European Buckthorn and Garlic Mustard	200,000		CAC Rec
05i	Land Exchange Revolving Fund for Aitkin, Cass, and Crow Wing Counties	500,000	Aitkin County	
	Subtotal	10,076,000		
Stillio	6. Recreation	State of the State		
06a	State Park and Recreation Area Land Acquisition	2,000,000	DNR	
06b	LAWCON Federal Reimbursements (This entire appropriation is from the LAWCON Account - see below)	1,600,000	DNR	
06c	State Park and Recreation Area Revenue-Enhancing Development	200,000	DNR	
06d	Best Management Practices for Parks and Outdoor Recreation	200,000	MN Recreation & Park Association	·
06e	Metropolitan Regional Parks Acquisition, Rehabilitation and Development	2,000,000	Metropolitan Council	CAC Rec
	Gitchi-Gami State Trail	500,000	DNR	
06g	Casey Jones State Trail	1,200,000	DNR	

Subd. #	Title	LCMR Funding Recommendations	ATTILIZATION	CAC Rec
06h	Paul Bunyan State Trail Connection	400,000	DNR	
06i	Minnesota River Trail Planning	200,000	U of M	
06j	Local Initiative Grants (Parks & Natural Areas)	1,200,000	DNR	CAC Rec
06k	Regional Park Planning for Nonmetropolitan Urban Areas	86,000	U of M - Dept of Forestry	
061	Local and Regional Trail Grant Initiative Program	700,000	DNR	CAC Rec
06m	Mesabi Trail	1,000,000	St. Louis/Lake Counties Reg. Railroad Authority	
06n	Cannon Valley Trail Belle Creek Bridge Replacement	300,000	Cannon Valley Trail Joint Powers Board	
060	Arrowhead Regional Bike Trail Connections Plan	83,000	Arrowhead Reg. Development Comm.	
06p	Land Acquisition, Minnesota Landscape Arboretum	650,000	U of M - MN Landscape Arboretum	
06q	Development and Rehabilitation of Minnesota Shooting Ranges	300,000	DNR	
06r	Birding Maps	100,000	Audubon Minnesota	
	Subtotal	12,719,000		
	7. Water Resources			
07a	Local Water Management Matching Challenge Grants	1,000,000	BWSR	CAC Rec
07b	Accelerating and Enhancing Surface Water Monitoring for Lakes and Streams	600,000	PCA	CAC Rec
07c	Effects of Land Retirements on the Minnesota River	300,000	BWSR	CAC Rec
07d	Recycling Treated Municipal Wastewater for Industrial Water Use	300,000	Metropolitan Council	CAC Rec
07e	Unwanted Hormone Therapy: Protecting Water and Public Health	300,000	U of M	CAC Rec
07f	Climate Change Impacts on Minnesota's Aquatic Resources	250,000	U of M - NRRI	
07g	Green Roof Cost Share and Monitoring	350,000	Ramsey Conservation District	
07h	Woodchip Biofilter Treatment of Feedlot Runoff	270,000	Stearns County SWCD and U of M	
07i	Improving Water Quality on the Central Sands	587,000	Central Lakes College Agricultural Center & U of M	
07j	Improving Impaired Watersheds: Conservation Drainage Research	300,000	Dept of Agriculture	CAC Rec
07k	Hydrology, Habitat and Energy Potential of Mine Lakes	500,000	Central Iron Range Initiative	
071	Hennepin County Beach Water Quality Monitoring Project	100,000	Hennepin Cnty Epidemiology & Env. Health	
07m	Southwest Minnesota Floodwater Retention Projects	500,000	Area II MN River Basin Projects, Inc.	·
07n	Upgrades to Blue Heron Research Vessel (\$28,000 of this appropriation is from the GLPA- see below)	295.000	U of M - Large Lakes Observatory	

Subd. #	Title	LCMR Funding Recommendations	Aπiliation	CAC Rec
070	Bassett Creek Valley Channel Restoration	175,000	City of Minneapolis	
07p	Restoration of Indian Lake	200,000	MN Environmental Services	
/	Subtotal	6,027,000		
Suno	8. Land Use and Natural Resource Informat		1000	
08a	MN County Biological Survey	1,000,000	DNR .	CAC Rec
08b	Soil Survey	500,000	BWSR	
08c	Land Cover Mapping for Natural Resource Protection	250,000	Hennepin County - Environmental Services	
08d	Open Space Planning and Protection	250,000	Anoka Conservation District	
	Subtotal	2,000,000		
Siriard	9. Agriculture and Natural Resource Industr	Tes:		
09a	Completing Third-Party Certification of DNR Forest Lands	250,000	DNR	CAC Rec
09b	Third Party Certification of Private Woodlands	376,000	U of M - Cloquet Forestry Center	CAC Rec
09c	Sustainable Management of Private Forest Lands	874,000	DNR	CAC Rec
09d	Evaluating Riparian Timber Harvesting Guidelines: Phase 2 - Continuation	333,000	U of M	
).	3rd Crops for Water Quality - Phase 2	500,000	Rural Advantage/BERBI	
09f	Bio-conversion of Potato Waste into Marketable Biopolymers	350,000	Bemidji State University	
	Subtotal	2,683,000		
Suistali	10. Energy			,
10a	Clean Energy Resource Teams & Community Wind Energy Rebate Programs	700,000	Dept of Commerce	CAC Rec
10b	Planning for Economic Development via Energy Independence	240,000	U of M - Duluth	
10c	Manure Methane Digester Compatible Wastes and Electrical Generation	100,000	Dept of Agriculture	CAC Rec
10d	Dairy Farm Digesters	336,000	The Minnesota Project	CAC Rec
10e	Wind to Hydrogen Demonstration	800,000	U of M - W. Central Research & Outreach Ctr.	CAC Rec
10f	Natural Gas Production from Agricultural Biomass	100,000	Sebesta Blomberg & Assoc.	
10g	Biomass-Derived Oils for Generating Electricity and Reducing Emissions	150,000	U of M	CAC Rec
10h	Phillips Biomass Community Energy System	900,000	Phillips Community Energy Cooperative	
	Laurentian Energy Authority Biomass Project	466,000	Virginia Public Utility	
	Subtotal	3,792,000		

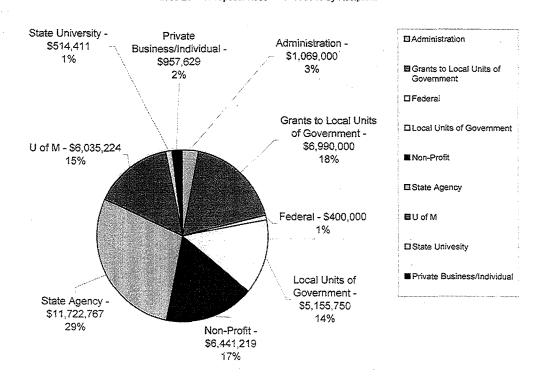
Subd. #	Title	R	LCMR Funding lecommendations	ATTILISTIAN	CAC Rec
Small	11. Environmental Education				
11a	Enhancing Civic Understanding of Groundwater		150,000	Science Museum of Minnesota	
11b	Cedar Creek Natural History Area Interpretive Center and Restoration		400,000	U of M - Cedar Creek Natural History Area	CAC Red
11c	Environmental Problem-Solving Model for Twin Cities Schools		75,000	Eco Education	CAC Red
11d	Tamarack Nature Center Exhibits		95,000	Ramsey County Parks & Rec Tamrack Nature Ctr.	V
	Subtotal		720,000		14447
Strbill,	12. Children's Environmental Health				
12a	Minnesota Children's Pesticide Exposure Reduction Initiative		200,000	Dept of Agriculture	MACO MACO MACO SE SE SE
	Subtotal		200,000		
	Total LCMR Appropriation	\$	39,286,000	,	
				,	
:					
	Appropriation Amounts by Fund				
•	Environment & Natural Resource Trust Fund	\$	37,658,000.00		
06b	LAWCON Receipts per 116P.14	\$	1,600,000.00		
07n	Great Lakes Protection Account	\$	28,000.00		
	Total	\$	39,286,000.00		

. . . .

		Amount		
Affiliation Type	Re	ecommended	% of total	_
Administration	\$	1,069,000	3%	(includes DNR contract administration for LCMR projects, CAC and LCMR
Grants to Local Units of Government Administered by State Agencies	\$	6,990,000	18%	Admin Budgets)
Federal	\$	400,000	1%	
Local Units of Government	\$	5,155,750	13%	
Non-Profit	\$	6,441,219	16%	
State Agency	\$	11,722,767	30%	
U of M	\$	6,035,224	15%	
State University	\$	514,411	1%	
Private Business/Individual	\$	957,629	2%	
Reco	\$.	39,286,000	100%	

NOTE: The 18 Proposals with multiple partners were broken out by dollar amounts being received by partner affiliation type. Assigning a number of proposals by affiliation is difficult due to several projects being shared by multiple affiliation types.

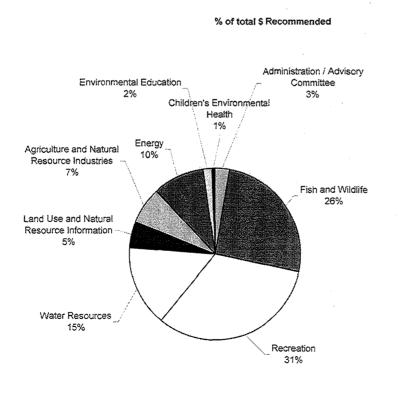
2005 LCMR Proposal Recommendations by Recipient

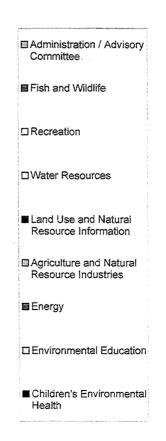


	Dollars Recommended		as a % of the \$	# of projects	as a % of the #
Administration / Advisory Committee	\$	1,069,000	3%	3	4%
Fish and Wildlife	\$	10,076,000	26%	9	13%
Recreation	\$	12,719,000	31%	18	25%
Water Resources	\$	6,027,000	15%	16	23%
Land Use and Natural Resource Information	\$	2,000,000	5%	4	6%
Agriculture and Natural Resource Industries	\$	2,683,000	7%	6	9%
Energy	\$	3,792,000	10%	9	13%
Environmental Education	\$	720,000	2%	4	6%
Children's Environmental Health	\$	200,000	1%	1	1%
Total	\$	39,286,000	100%	70	100%

Note

2) The LCMR recommendations for funding include 29 of the 33 proposals recommended by the Citizens Advisory Committee.





¹⁾ The distribution of dollars above is based on the categories contained in draft language which further defines the RFP funding priorities. For example, some proposals in the "Other" category are now labeled "Environmental Education and "Children's Environmental Health".

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1
                           A bill for an act
 2
         relating to appropriations; appropriating money for
 3
         environment and natural resource projects approved by
         the Legislative Commission on Minnesota Resources;
         amending Minnesota Statutes 2004, section 116P.05,
         subdivision 2; Laws 2003, chapter 128, article 1,
         section 9, subdivision 6; proposing coding for new law
. 8
         in Minnesota Statutes, chapter 116P.
    BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:
    Section 1. [ENVIRONMENT AND NATURAL RESOURCES APPROPRIATIONS.]
10
11
         The sums shown in the columns marked "APPROPRIATIONS" are
12
    appropriated from the named fund to the agencies and for the
    purposes specified in this act, to be available for the fiscal
    years indicated for each purpose.
                                                APPROPRIATIONS
15
                                            Available for the Year
16
                                                Ending June 30
17
                                                            2007
18
                                               2006
    Sec. 2. MINNESOTA RESOURCES
20
    Subdivision 1.
                    Total
    Appropriation
21
                                          $20,457,000
                                                         $18,829,000
22
23
                  Summary by Fund
24
    State Land and Water Conservation
   Account (LAWCON)
                          1,600,000
    Environment and Natural Resources
                         18,829,000
                                        18,829,000
    Trust Fund
27
    Great Lakes Protection
                             28,000
29
   Account
    Appropriations from the LAWCON account
30
    and Great Lakes protection account are
31
   available for either year of the
```

biennium. For appropriations from the environment and natural resources trust fund, any unencumbered balance remaining in the first year does not cancel and is available for the second year of the biennium. Unless otherwise provided, the amounts in this section are available until June 30, 2007, when projects must be completed and final products delivered. Subd. 2. Definitions 13 (a) "State Land and Water Conservation Account (LAWCON)" means the state land 14 and water conservation account in the natural resources fund referred to in Minnesota Statutes, section 116P.14. (b) "Great Lakes Protection Account" means the Great Lakes protection 19 account referred to in Minnesota 21 Statutes, section 116Q.02, subdivision 22 (c) "Trust fund" means the Minnesota environment and natural resources trust 25 fund referred to in Minnesota Statutes, section 116P.02, subdivision 6. 525,000 Subd. 3. Administration 524,000 28 Summary by Fund 524,000 525,000 Trust Fund 899,000 (a) Legislative Commission on Minnesota Resources \$449,000 the first year and \$450,000 the second year are from the trust fund for administration as provided in 34 Minnesota Statutes, section 116P.09, 35 subdivision 5. (b) Contract Administration 150,000 \$75,000 the first year and \$75,000 the second year are from the trust fund to the commissioner of natural resources 39 for contract administration activities 41 assigned to the commissioner in this section. This appropriation is available until June 30, 2008. 43 10,000 10,000 Subd. 4. Citizen Advisory Committee Summary by Fund 45 10,000 10,000 Trust Fund \$10,000 the first year and \$10,000 the second year are from the trust fund to the Legislative Commission on Minnesota 49 50 Resources for expenses of the citizen

51 advisory committee as provided in 52 Minnesota Statutes, section 116P.06.

53 Notwithstanding Minnesota Statutes,

54 section 16A.281, the availability of

5 \$15,000 of the appropriation from Laws

```
2003, chapter 128, article 1, section
    9, subdivision 4, advisory committee,
    is extended to June 30, 2007.
    Subd. 5. Fish and Wildlife Habitat
                                               5,038,000
                                                               5,038,000
 5
                   Summary by Fund
    Trust Fund
                            5,038,000
                                           5,038,000
     (a) Restoring Minnesota's Fish and Wildlife
    Habitat Corridors-Phase III
                                                               4,062,000
    $2,031,000 the first year and
10
    $2,031,000 the second year are from the
    trust fund to the commissioner of
11
    natural resources for the third
    biennium for acceleration of agency
13
    programs and cooperative agreements
15
    with Pheasants Forever, Minnesota Deer
    Hunters Association, Ducks Unlimited, Inc., National Wild Turkey Federation,
16
17
    the Nature Conservancy, Minnesota Land
18
    Trust, the Trust for Public Land,
    Minnesota Valley National Wildlife
20
21
    Refuge Trust, Inc., U.S. Fish and
    Wildlife Service, Red Lake Band of
22
23
    Chippewa, Leech Lake Band of Chippewa,
24
    Fond du Lac Band of Chippewa,
25
    USDA-Natural Resources Conservation
    Service, and the Board of Water and
    Soil Resources to plan, restore, and
27
    acquire fragmented landscape corridors
29
    that connect areas of quality habitat
    to sustain fish, wildlife, and plants. Expenditures are limited to the 11
30
31
    project areas as defined in the work
32
    program. Land acquired with this
34
    appropriation must be sufficiently
35
    improved to meet at least minimum
    habitat and facility management
36
    standards as determined by the
37
    commissioner of natural resources.
39
    This appropriation may not be used for
40
    the purchase of residential structures,
    unless expressly approved in the work
41
    program. Any land acquired in fee
    title by the commissioner of natural
43
44
    resources with money from this
    appropriation must be designated:
45
    as an outdoor recreation unit under
46
    Minnesota Statutes, section 86A.07; or
47
    (2) as provided in Minnesota Statutes,
48
    sections 89.018, subdivision 2, paragraph (a); 97A.101; 97A.125; 97C.001; and 97C.011. The commissioner
49
50
51
52
    may similarly designate any lands
    acquired in less than fee title.
53
    appropriation is available until June
    30, 2008, at which time the project
55
    must be completed and final products
57
    delivered, unless an earlier date is
    specified in the work program.
    (b) Metropolitan Area Wildlife
                                                               3,530,000 '
    Corridors-Phase II
61
    $1,765,000 the first year and
    $1,765,000 the second year are from the
    trust fund to the commissioner of
63
    natural resources for the second
```

```
biennium for acceleration of agency
    programs and cooperative agreements
    with the Trust for Public Land, Ducks
    Unlimited, Inc., Friends of the
    Mississippi River, Great River
    Greening, Minnesota Land Trust,
Minnesota Valley National Wildlife
 8 Refuge Trust, Inc., Pheasants Forever,
    Inc., and Friends of the Minnesota
10
    Valley for the purposes of planning,
    improving, and protecting important natural areas in the metropolitan
12
    region, as defined by Minnesota
14
    Statutes, section 473.121, subdivision
15
    2, and portions of the surrounding
16
    counties, through grants, contracted
    services, conservation easements, and
17
   fee acquisition. Land acquired with
19
    this appropriation must be sufficiently
    improved to meet at least minimum
21
   management standards as determined by
    the commissioner of natural resources.
23
    Expenditures are limited to the
    identified project areas as defined in the work program. This appropriation
25
   may not be used for the purchase of
27
    residential structures, unless
28
    expressly approved in the work
    program. Any land acquired in fee title by the commissioner of natural
30
    resources with money from this
    appropriation must be designated:
33
    as an outdoor recreation unit under
    Minnesota Statutes, section 86A.07; or
   (2) as provided in Minnesota Statutes,
   sections 89.018, subdivision 2,
   paragraph (a); 97A.101; 97A.125; 97C.001; and 97C.011. The commissioner
37
    may similarly designate any lands
39
    acquired in less than fee title.
    appropriation is available until June
    30, 2008, at which time the project
42
43
    must be completed and final products
    delivered, unless an earlier date is
    specified in the work program.
    (c) Development of Scientific and Natural Areas
                                                                 134,000
    $67,000 the first year and $67,000 the
    second year are from the trust fund to
    the commissioner of natural resources
49
    to develop and enhance lands designated
   as scientific and natural areas.
51
    appropriation is available until June
    30, 2008, at which time the project
    must be completed and final products
54
    delivered, unless an earlier date is
55
    specified in the work program.
56
                                                                 100,000
    (d) Prairie Stewardship of Private Lands
57
    $50,000 the first year and $50,000 the
    second year are from the trust fund to
    the commissioner of natural resources
    to develop stewardship plans and
61
    implement prairie management on private
    prairie lands on a cost-share basis
63
    with private or federal funds. This
    appropriation is available until June
65
66
    30, 2008, at which time the project
```

must be completed and final products

```
delivered, unless an earlier date is
      specified in the work program.
      (e) Local Initiative Grants-Conservation
      Partners and Environmental Partnerships
                                                                 500,000
     $250,000 the first year and $250,000 the second year are from the trust fund
     to the commissioner of natural
     resources to provide matching grants of
     up to $20,000 to local government and
 10
     private organizations for enhancement,
     restoration, research, and education
 12 associated with natural habitat and
 13
     environmental service projects.
 14
     Subdivision 16 applies to grants
 15
     awarded in the approved work program.
     This appropriation is available until
. 17
     June 30, 2008, at which time the
 18
     project must be completed and final
     products delivered, unless an earlier date is specified in the work program.
      (f) Minnesota ReLeaf Community Forest
     Development and Protection
                                                                 500,000
     $250,000 the first year and $250,000
 24 the second year are from the trust fund
 25
     to the commissioner of natural
     resources for acceleration of the
 27
     agency program and a cooperative
     agreement with Tree Trust to protect
 29
     forest resources, develop
     inventory-based management plans, and
 30
 31
     provide matching grants to communities
 32
     to plant native trees. At least
     $390,000 of this appropriation must be
     used for grants to communities. For
 35 the purposes of this paragraph, the 36 match must be a nonstate contribution,
     but may be either cash or qualifying
     in-kind. This appropriation is
     available until June 30, 2008, at which
 39
     time the project must be completed and
 41
     final projects delivered, unless an
     earlier date is specified in the work
 42
     program.
      (g) Integrated and Pheromonal Control of
     Common Carp
                                                                 550,000
 45
 46 $275,000 the first year and $275,000
     the second year are from the trust fund
 47
     to the University of Minnesota for the
 48
     second biennium to research new options
                                    This
     for controlling common carp.
     appropriation is available until June
 51
     30, 2009, at which time the project
     must be completed and final products
     delivered, unless an earlier date is
     specified in the work program.
     (h) Biological Control of European Buckthorn
                                                                 200,000
 57
     and Garlic Mustard
     $100,000 the first year and $100,000
 58
     the second year are from the trust fund
 59
     to the commissioner of natural
 60
     resources to research potential insects
 61
     for biological control of invasive
     European buckthorn species for the
```

```
second biennium and to introduce and
    evaluate insects for biological control
   of garlic mustard. This appropriation is available until June 30, 2008, at
    which time the project must be completed and final products delivered,
    unless an earlier date is specified in
    the work program.
    (i) Land Exchange Revolving Fund for
   Aitkin, Cass, and Crow Wing Counties
10
                                                                500,000
    $250,000 the first year and $250,000
    the second year are from the trust fund
13
    to the commissioner of natural
    resources for an agreement with Aitkin
    County for a six-year revolving loan
16
    fund to improve public and private land
    ownership patterns, increase management
18
    efficiency, and protect critical
    habitat in Aitkin, Cass, and Crow Wing
    Counties. By June 30, 2011, Aitkin
    County shall repay the $500,000 to the commissioner of finance for deposit in
21
    the environment and natural resources
    trust fund.
    Subd. 6. Recreation
                                              7,160,000
                                                             5,559,000
                   Summary by Fund
                                          5,559,000
27
    Trust Fund
                           5,560,000
    State Land and Water Conservation
    Account (LAWCON)
                           1,600,000
    (a) State Park and Recreation Area
    Land Acquisition
                                                             2,000,000
    $1,000,000 the first year and
    $1,000,000 the second year are from the
    trust fund to the commissioner of
    natural resources to acquire
35
   in-holdings for state park and
   recreation areas. Land acquired with
   this appropriation must be sufficiently
38
39
    improved to meet at least minimum
    management standards as determined by
40
    the commissioner of natural resources.
41
    This appropriation is available until
43
    June 30, 2008, at which time the
    project must be completed and final
    products delivered, unless an earlier
45
46
    date is specified in the work program.
    (b) LAWCON Federal Reimbursements
                                                             1,600,000
    $1,600,000 is from the State Land and
    Water Conservation Account (LAWCON) in
49
50
    the natural resources fund to the
    commissioner of natural resources for
    priorities established by the
52
    commissioner for eligible state
53
   projects and administrative and
    planning activities consistent with
55
    Minnesota Statutes, section 116P.14,
    and the federal Land and Water
57
    Conservation Fund Act. Subdivision 16
    applies to grants awarded in the
    approved work program. This
    appropriation is contingent upon
```

```
receipt of the federal obligation and
 2 remains available until June 30, 2008,
    at which time the project must be
    completed and final products delivered,
    unless an earlier date is specified in
    the work program.
     (c) State Park and Recreation Area
    Revenue-Enhancing Development
                                                                 200,000
    $100,000 the first year and $100,000
    the second year are from the trust fund
11
    to the commissioner of natural
    resources to enhance revenue generation
13
    in the state's park and recreation
    system.
15
    (d) Best Management Practices for Parks
    and Outdoor Recreation
                                                                200,000
    $100,000 the first year and $100,000
    the second year are from the trust fund
    to the commissioner of natural
19
20
    resources for an agreement with the
    Minnesota Recreation and Park
21
    Association to develop and evaluate
23
    opportunities to more efficiently
    manage Minnesota's parks and outdoor
    recreation areas.
    (e) Metropolitan Regional Parks Acquisition,
    Rehabilitation, and Development
                                                              2,000,000
    $1,000,000 the first year and
29
    $1,000,000 the second year are from the
30
    trust fund to the commissioner of
31 natural resources for an agreement with 32 the Metropolitan Council for subgrants
    for the acquisition, development, and
    rehabilitation in the metropolitan
35
    regional park system, consistent with
36
    the Metropolitan Council regional
37
    recreation open space capital
   improvement plan. This appropriation
39
    may not be used for the purchase of
    residential structures, may be used to
40
    reimburse implementing agencies for acquisition as expressly approved in
41
42
    the work program, and must be matched
44
    by at least 40 percent of nonstate
45
    money. Subdivision 16 applies to
    grants awarded in the approved work
46
    program. This appropriation is
47
   available until June 30, 2008, at which
48
49
    time the project must be completed and
50
    final products delivered, unless an
    earlier date is specified in the work
51
    program. If a project financed under
53
    this program receives a federal grant
    award, the availability of the
54
    financing from this paragraph for that project is extended to equal the period
55
    of the federal grant.
58
    (f) Gitchi-Gami State Trail
                                                                500,000
    $250,000 the first year and $250,000
    the second year are from the trust fund
    to the commissioner of natural
61
    resources, in cooperation with the
62
```

Gitchi-Gami Trail Association, for the

```
fourth biennium, to design and
    construct approximately two miles of
    Gitchi-Gami State Trail segments.
    appropriation is available until June
    30, 2008, at which time the project must be completed and final products
    delivered. If this project receives a
    federal grant award, the availability
    of the financing from this paragraph
10
    for the project is extended to equal
    the period of the federal grant.
12
    (g) Casey Jones State Trail
                                                              1,200,000
    $600,000 the first year and $600,000
    the second year are from the trust fund
    to the commissioner of natural
16
    resources in cooperation with the
    Friends of the Casey Jones Trail Association for land acquisition and
18
    development of the Casey Jones State
    Trail in southwest Minnesota.
21
    appropriation is available until June
    30, 2008, at which time the project
    must be completed and final products
    delivered. If this project receives a
25
    federal grant award, the availability
    of the financing from this paragraph
27
    for the project is extended to equal
    the period of the federal grant.
    (h) Paul Bunyan State Trail Connection
                                                                400,000
    $200,000 the first year and $200,000
    the second year are from the trust fund
    to the commissioner of natural
33
    resources to acquire land to connect
    the Paul Bunyan State Trail within the
35
    city of Bemidji.
    (i) Minnesota River Trail Planning
                                                                200,000
    $100,000 the first year and $100,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with the University of Minnesota to provide
40
42
    trail planning assistance to three
    communities along the Minnesota River
    State Trail.
    (j) Local Initiative Grants-Parks and Natural Areas 1,200,000
    $600,000 the first year and $600,000
    the second year are from the trust fund
47
    to the commissioner of natural
48
    resources to provide matching grants to
49
    local governments for acquisition and
50
    development of natural and scenic areas
52
    and local parks as provided in
    Minnesota Statutes, section 85.019, subdivisions 2 and 4a, and regional
54
    parks outside of the metropolitan
    area. Grants may provide up to 50
56
    percent of the nonfederal share of the
57
    project cost, except nonmetropolitan
    regional park grants may provide up to
59
    60 percent of the nonfederal share of
    the project cost. $500,000 of this
61
    appropriation is for land acquisition
    for a proposed county regional park on
```

```
Kraemer Lake in Stearns County. The commission will monitor the grants for
 3 approximate balance over extended
 4 periods of time between the
    metropolitan area, under Minnesota
Statutes, section 473.121, subdivision
2, and the nonmetropolitan area through
 8 work program oversight and periodic
    allocation decisions. For the purposes
10
    of this paragraph, the match must be a
11
    nonstate contribution, but may be
    either cash or qualifying in-kind.
    Recipients may receive funding for more
    than one project in any given grant period. Subdivision 16 applies to
14
15
    grants awarded in the approved work
    program. This appropriation is
17
    available until June 30, 2008, at which
19
    time the project must be completed and
    final products delivered.
     (k) Regional Park Planning for Nonmetropolitan
    Urban Areas
                                                                      86,000
    $43,000 the first year and $43,000 the
    second year are from the trust fund to
    the commissioner of natural resources
    for an agreement with the University of
    Minnesota to develop a plan for a
    system of regional recreation areas for
    major outstate urban complexes in
    Minnesota.
    (1) Local and Regional Trail Grant Initiative Program
                                                                     700,000
    $350,000 the first year and $350,000
    the second year are from the trust fund
    to the commissioner of natural
    resources to provide matching grants to local units of government for the cost
35
36
37
    of acquisition, development,
    engineering services, and enhancement
    of existing and new trail facilities. Subdivision 16 applies to grants awarded in the approved work program.
39
40
41
    This appropriation is available until
42
    June 30, 2008, at which time the
    project must be completed and final
    products delivered, unless an earlier
45
    date is specified in the work program.
47
    In addition, if a project financed
    under this program receives a federal
    grant award, the availability of the
49
    financing from this paragraph for that project is extended to equal the period
51
    of the federal grant.
    (m) Mesabi Trail
                                                                   1,000,000
    $500,000 the first year and $500,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with St.
57
    Louis and Lake Counties Regional Rail
   Authority for the seventh biennium to
59
    acquire and develop segments for the
                     This appropriation is
    Mesabi Trail.
    available until June 30, 2008, at which
62
    time the project must be completed and
63
    final products delivered. If this
    project receives a federal grant award,
```

```
the availability of the financing from
    this paragraph for the project is
    extended to equal the period of the
    federal grant.
    (n) Cannon Valley Trail Belle Creek Bridge
 6
    Replacement
                                                               300,000
    $150,000 the first year and $150,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with the
    Cannon Valley Trail Joint Powers Board
    for bridge replacement of the Belle
    Creek Bridge on the Cannon Valley
    Trail. This appropriation must be
15
    matched by at least $44,000 of nonstate
16
    money.
17
    (o) Arrowhead Regional Bike Trail Connections Plan
                                                                83,000
18
    $42,000 the first year and $41,000 the
19
    second year are from the trust fund to
20
    the commissioner of natural resources
    for an agreement with the Arrowhead
    Regional Development Commission to
23
    analyze the Arrowhead's major bike
24
    trails and plan new trail connections.
    (p) Land Acquisition, Minnesota Landscape Arboretum
    $325,000 the first year and $325,000
27
    the second year are from the trust fund
    to the University of Minnesota for an
    agreement with the University of
30
    Minnesota Landscape Arboretum
    Foundation for the sixth biennium to acquire land from willing sellers.
32
    This appropriation must be matched by
    an equal amount of nonstate money.
    This appropriation is available until June 30, 2008, at which time the
35
    project must be completed and final
37
    products delivered, unless an earlier
39
    date is specified in the work program.
    (q) Development and Rehabilitation of Minnesota
                                                              300,000
41
    Shooting Ranges
42
    $150,000 the first year and $150,000
43 the second year are from the trust fund
   to the commissioner of natural
   resources to provide technical
46
   assistance and matching grants to local
    communities and recreational shooting
47
    and archery clubs for the purpose of
48
    developing or rehabilitating shooting
49
50
    and archery facilities for public use.
51
    Recipient facilities must be open to
    the general public at reasonable times
    and for a reasonable fee on a walk-in
53
    basis. This appropriation is available
55
    until June 30, 2008, at which time the
56
    project must be completed and final
    products delivered, unless an earlier
57
    date is specified in the work program.
                                                              100,000
59
    (r) Birding Maps
    $50,000 the first year and $50,000 the
60
```

second year are from the trust fund to

```
the commissioner of natural resources
     for an agreement with Audubon Minnesota
     to create a new birding trail guide for
  4 the North Shore/Arrowhead region and
    reprint and distribute guides for three
     existing birding trails.
     Subd. 7. Water Resources
                                                3,027,000
                                                                 3,000,000
                    Summary by Fund
     Trust Fund
                             2,999,000
                                             3,000,000
     Great Lakes Protection
10
     Account
                                                28,000
     (a) Local Water Management Matching Challenge Grants 1,000,000
    $500,000 the first year and $500,000
    the second year are from the trust fund
to the Board of Water and Soil
    Resources to accelerate the local water
    management challenge grant program
17
    under Minnesota Statutes, sections
19 103B.3361 to 103B.3369, through
20 matching grants to implement high
21 priority activities in state-approved
comprehensive water management plans.
For the purposes of this paragraph, the
match must be a nonstate contribution,
    but may be either cash or qualifying
26
    in-kind. The grants may be provided on
    an advance basis as specified in the work program. This appropriation is
27
    available until June 30, 2008, at which
    time the project must be completed and
    final products delivered, unless an
31
    earlier date is specified in the work
32
.33
    program.
     (b) Accelerating and Enhancing Surface Water
35
    Monitoring for Lakes and Streams
                                                                   600,000
    $300,000 the first year and $300,000
    the second year are from the trust fund
    to the commissioner of the Pollution
38
    Control Agency for acceleration of
40 agency programs and cooperative
   agreements with the Minnesota Lakes
42 Association, Rivers Council of
43 Minnesota, and the University of
44 Minnesota to accelerate monitoring
45 efforts through assessments, citizen
    training, and implementation grants.
    This appropriation is available until
47
    June 30, 2008, at which time the
    project must be completed and final
49
    products delivered, unless an earlier
    date is specified in the work program.
    (c) Effects of Land Retirements on the
53
    Minnesota River
                                                                   300,000
    $150,000 the first year and $150,000
    the second year are from the trust fund to the Board of Water and Soil
55
56
    Resources for a cooperative agreement
    with the U.S. Geological Survey to
    evaluate effects of retired or
59
    set-aside agricultural lands on the
61 water quality and aquatic habitat of
```

```
streams in the Minnesota River Basin in
    order to enhance prioritization of
    future land retirements.
                                This
    appropriation must be matched by an
    equal amount of nonstate money.
    appropriation is available until June
    30, 2008, at which time the project
    must be completed and final products
    delivered, unless an earlier date is
    specified in the work program.
10
     (d) Recycling Treated Municipal Wastewater for
    Industrial Water Use
                                                                 300,000
    $150,000 the first year and $150,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with the
17
    Metropolitan Council to determine the
    feasibility of recycling treated municipal wastewater for industrial
19
    use, characterize industrial water
21
    demand and quality, and determine the
    costs to treat municipal wastewater to
22
23
    meet specific industrial needs.
    (e) Unwanted Hormone Therapy: Protecting Water
25
    and Public Health
                                                                300,000
    $150,000 the first year and $150,000
    the second year are from the trust fund
28
    to the University of Minnesota to
    determine where behavior-altering
30
    estrogenic compounds come from and how
    they are distributed in wastewater
    treatment plants. This appropriation
    is available until June 30, 2008, at
33
    which time the project must be completed and final products delivered,
35
    unless an earlier date is specified in
37
    the work program.
    (f) Climate Change Impacts on Minnesota's
                                                                 250,000
39
    Aquatic Resources
40
    $125,000 the first year and $125,000
    the second year are from the trust fund to the University of Minnesota, Natural
42
    Resources Research Institute, to
    quantify climate, hydrologic, and
   ecological variability and trends; and identify indicators of future climate
45
    change effects on aquatic systems.
47
    This appropriation is available until
49
    June 30, 2008, at which time the
    project must be completed and final
50
    products delivered, unless an earlier
52
    date is specified in the work program.
53 (g) Green Roof Cost Share and Monitoring
                                                                350,000
    $175,000 the first year and $175,000
    the second year are from the trust fund
55
    to the commissioner of natural
    resources for an agreement with Ramsey
57
    Conservation District to install green,
    vegetated roofs on four commercial or
59
    industrial buildings in Roseville and
    Falcon Heights and to monitor their
    effectiveness for stormwater
62
    management, flood reduction, water
```

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quality, and energy efficiency. The cost of the installations must be
    matched by at least 50 percent nonstate
    (h) Woodchip Biofilter Treatment of Feedlot Runoff
                                                                270,000
    $135,000 the first year and $135,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for agreements with Stearns
    County Soil and Water Conservation
10
    District and the University of
    Minnesota to treat feedlot runoff with
13
    woodchip biofilters to remove
    pollutants and assess improvements to
15
    surface water quality.
                             This
    appropriation is available until June
17
    30, 2008, at which time the project
18
    must be completed and final products
    delivered, unless an earlier date is
19
20
    specified in the work program.
    (i) Improving Water Quality on the Central Sands
                                                                587,000
    $294,000 the first year and $293,000
    the second year are from the trust fund
    to the commissioner of natural
25
    resources for agreements with the
    University of Minnesota and the Central
27
    Lakes College Agricultural Center to
   reduce nitrate and phosphorus losses to
    groundwater and surface waters of sandy
30
   ecoregions through the development,
    promotion, and adoption of new farming
32
    and land management practices and
    techniques. This appropriation is
33
    available until June 30, 2008, at which
35
    time the project must be completed and
    final products delivered, unless an
    earlier date is specified in the work
37 .
38
    program.
    (j) Improving Impaired Watersheds: Conservation
40
    Drainage Research
                                                                300,000
    $150,000 the first year and $150,000
42
    the second year are from the trust fund
43
    to the commissioner of agriculture to
    analyze conservation drainage systems
45
    at University of Minnesota research and
    outreach centers for opportunities to
    retrofit drainage infrastructure with
   water quality improvement
technologies. This appropriation is
available until June 30, 2008, at which
48
49
50
    time the project must be completed and
51
52
    final products delivered, unless an
    earlier date is specified in the work
53
    program.
    (k) Hydrology, Habitat, and Energy Potential
                                                               500,000
    of Mine Lakes
    $188,000 the first year and $211,000
    the second year are from the trust fund
58
    to the commissioner of natural
60
    resources for agency work and
    agreements with Architectural
61
    Resources, Inc., and Northeast
62
```

Technical Services, Inc., for a

```
coordinated effort of the Central Iron
    Range Initiative to establish ultimate
   mine water elevations, outflows, and
   quality; design optimum future mineland
    configurations for fish habitat and
    lakeshore development; and evaluate
   wind-pumped hydropower potential.
$62,000 the first year and $39,000 the
    second year are from the trust fund to
10
   the Minnesota Geological Survey at the
11
    University of Minnesota to assess the
12
    geology and mine pit morphometry.
    (1) Hennepin County Beach Water Quality
    Monitoring Project
                                                              100,000
    $50,000 the first year and $50,000 the
    second year are from the trust fund to
17
    the commissioner of natural resources
18
    for an agreement with Hennepin County
19
    to develop a predictive model for
   on-site determination of beach water
    quality to prevent outbreaks of
22
    waterborne illnesses and provide
   related water safety outreach to the
24
   public.
    (m) Southwest Minnesota Floodwater Retention Projects
   $250,000 the first year and $250,000
   the second year are from the trust fund
   to the commissioner of natural
   resources for an agreement with Area II
   MN River Basin Projects, Inc., to
    acquire easements and construct four
   floodwater retention projects in the
    Minnesota River Basin to improve water
   quality and waterfowl habitat.
                                                              295,000
    (n) Upgrades to Blue Heron Research Vessel
   $28,000 is from the Great Lakes
   protection account in the first year
   and $133,000 the first year and
    $134,000 the second year are from the
   trust fund to the University of
41
   Minnesota, Large Lakes Observatory, to
   upgrade and overhaul the Blue Heron
42
   Research Vessel.
                                                             175,000
44 (o) Bassett Creek Valley Channel Restoration
45
   $87,000 the first year and $88,000 the
   second year are from the trust fund to
47
   the commissioner of natural resources
   for an agreement with the city of
   Minneapolis for design and engineering
    activities for habitat restoration and
    water quality and channel improvements
51
   for Bassett Creek Valley.
                                                              200,000
    (p) Restoration of Indian Lake
   $100,000 the first year and $100,000
   the second year are from the trust fund
55
   to the commissioner of natural
   resources for agreements with MN
57
   Environmental Services and Bemidji
   State University to demonstrate the
59
   removal of excess nutrients from Indian
   Lake in Wright County. This
```

```
appropriation is contingent on all
     appropriate permits being obtained.
     Subd. 8. Land Use and Natural Resource
     Information
                                             1,000,000
                                                             1,000,000
  5
                   Summary by Fund
                       1,000,000
     Trust Fund
  6
                                          1,000,000
     (a) Minnesota County Biological Survey
  7
                                                            1,000,000
     $500,000 the first year and $500,000
     the second year are from the trust fund
 10
    to the commissioner of natural
     resources for the tenth biennium to
 11
     accelerate the survey that identifies
     significant natural areas and
 13
     systematically collects and interprets
 15
     data on the distribution and ecology of
     native plant communities, rare plants,
 16
 17
     and rare animals.
 18
     (b) Soil Survey
                                                              500,000
     $250,000 the first year and $250,000
    the second year are from the trust fund
 20
     to the Board of Water and Soil
 22
    Resources to accelerate digitizing of
     completed soil surveys for Web-based
 24
    user application and for agreements
    with Pine and Crow Wing Counties to
    begin soil surveys. The new soil
 27
     surveys must be done on a cost-share
 28
     basis with local and federal funds.
 29
     This appropriation is available until
     June 3\overline{0}, 2\overline{0}08, at which time the
 30
     project must be completed and final
     products delivered, unless an earlier
32
     date is specified in the work program.
     (c) Land Cover Mapping for Natural Resource Protection 250,000
     $125,000 the first year and $125,000
    the second year are from the trust fund
 36
37
    to the commissioner of natural
    resources for an agreement with
 39
    Hennepin County to develop GIS tools
    for prioritizing natural areas for
 41
     protection and restoration and to
     update and complete land cover
 42
    classification mapping.
                                                              250,000
    (d) Open Space Planning and Protection
    $125,000 the first year and $125,000
    the second year are from the trust fund
     to the commissioner of natural
 47
    resources for an agreement with Anoka
    Conservation District to protect open
    space by identifying high priority
     natural resource corridors through
 51
     planning, conservation easements, and
     land dedication as part of development
53
    processes.
 55
     Subd. 9. Agriculture and Natural
                                             1,342,000
                                                            1,341,000
    Resource Industries
 57
                   Summary by Fund
```

```
1 Trust Fund
                           1,342,000
                                          1,341,000
    (a) Completing Third-Party Certification
 3 of DNR Forest Lands
                                                                250,000
    $125,000 the first year and $125,000
   the second year are from the trust fund
    to the commissioner of natural
    resources for third-party assessment and certification of 4,470,000 acres of
    DNR-administered lands under forest
    sustainability standards established by
    two internationally recognized forest
    certification systems, the Forest
13
    Stewardship Council system, and the
    Sustainable Forestry Initiative system.
    (b) Third-Party Certification of Private Woodlands
                                                               376,000
    $188,000 the first year and $188,000
    the second year are from the trust fund
    to the University of Minnesota, Cloquet
19
    Forestry Center, to pilot a third-party
20
    certification assessment framework for
   nonindustrial private forest owners.
    (c) Sustainable Management of Private Forest Lands
                                                               874,000
    $437,000 the first year and $437,000
    the second year are from the trust fund
   to the commissioner of natural
   resources to develop stewardship plans
   for private forested lands, implement
27
   stewardship plans on a cost-share basis
   and for conservation easements matching
   federal funds. This appropriation is available until June 30, 2008, at which
    time the project must be completed and
    final products delivered, unless an
33
    earlier date is specified in the work
34
    program.
    (d) Evaluating Riparian Timber Harvesting
    Guidelines: Phase 2
                                                               333,000
37
    $167,000 the first year and $166,000
    the second year are from the trust fund
39
    to the University of Minnesota for a
    second biennium to assess the timber
41
   harvesting riparian management
42
    guidelines for postharvest impacts on
    terrestrial, aquatic, and wildlife
44
   habitat. This appropriation is available until June 30, 2008, at which
45
46
    time the project must be completed and
    final products delivered, unless an
48
    earlier date is specified in the work
49
50
    (e) Third Crops for Water Quality-Phase 2
                                                                 500,000
    $250,000 the first year and $250,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for cooperative agreements
    with Rural Advantage and the University
    of Minnesota to accelerate adoption of
57
    third crops to enhance water quality,
58
    diversify cropping systems, supply
59
    bioenergy, and provide wildlife habitat
    through demonstration, research, and
```

```
education. This appropriation is
    available until June 30, 2008, at which
    time the project must be completed and
    final products delivered, unless an earlier date is specified in the work
    program.
    (f) Bioconversion of Potato Waste into
    Marketable Biopolymers
 8
                                                                350,000
    $175,000 the first year and $175,000
10
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with Bemidji
    State University to evaluate the
    bioconversion of potato waste into
    plant-based plastics.
    Subd. 10. Energy
                                              1,896,000
                                                              1,896,000
17
                   Summary by Fund
18
    Trust Fund
                            1,896,000
    (a) Clean Energy Resource Teams and Community Wind
                                                                700,000
    Energy Rebate Programs
    $350,000 the first year and $350,000
    the second year are from the trust fund
23
    to the commissioner of commerce.
    \$300,000 of this appropriation is to
24
    provide technical assistance to
    implement cost-effective conservation,
26
    energy efficiency, and renewable energy projects. $400,000 of this
27
28
29
    appropriation is to assist two
30
    Minnesota communities in developing
31
    locally owned wind energy projects by
    offering financial assistance rebates.
33 (b) Planning for Economic Development
                                                                240,000
    via Energy Independence
   $120,000 the first year and $120,000
    the second year are from the trust fund
36
37
    to the commissioner of natural
38
    resources for an agreement with the
    University of Minnesota-Duluth to
    evaluate the socioeconomic benefits of
41
    statewide and community renewable
42
    energy production and distribution by
    analyzing system installation,
43
    technical capabilities,
45
    cost-competitiveness, economic impacts,
46
    and policy incentives.
    (c) Manure Methane Digester Compatible Wastes
47
                                                                100,000
    and Electrical Generation
    \$50,000 the first year and \$50,000 the second year are from the trust fund to
49
50·
    the commissioner of agriculture to
    research the potential for a centrally
52
    located, multifarm manure digester and
53
    the potential use of compatible waste
    streams with manure digesters.
55
                                                                336,000
56
    (d) Dairy Farm Digesters
    $168,000 the first year and $168,000
```

58 the second year are from the trust fund

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to the commissioner of natural
    resources for an agreement with the
    Minnesota Project for a pilot project
    to evaluate anaerobic digester
    technology on average size dairy farms
    of 50 to 300 cows.
    (e) Wind to Hydrogen Demonstration
                                                             800,000
    $400,000 the first year and $400,000
    the second year are from the trust fund
    to the commissioner of natural
    resources for an agreement with the
    University of Minnesota, West Central
    Research and Outreach Center, to
14
    develop a model community-scale
    wind-to-hydrogen facility.
    (f) Natural Gas Production from
17
   Agricultural Biomass
                                                             100,000
    $50,000 the first year and $50,000 the
    second year are from the trust fund to
20
    the commissioner of natural resources
21
   for an agreement with Sebesta Blomberg
    and Associates to demonstrate potential
22
    natural gas yield using anaerobic
24
    digestion of blends of chopped grasses
25
    or crop residue with hog manure and
    determine optimum operating conditions
27
    for conversion to natural gas.
28
    (g) Biomass-Derived Oils for Generating Electricity
29
    and Reducing Emissions
                                                            150,000
    $75,000 the first year and $75,000 the
    second year are from the trust fund to
32
    the University of Minnesota to evaluate
    the environmental and performance
    benefits of using renewable
    biomass-derived oils, such as soybean
    oil, for generating electricity.
   (h) Phillips Biomass Community Energy System
                                                            900,000
  $450,000 the first year and $450,000
   the second year are from the trust fund
39
40
   to the commissioner of natural
    resources for an agreement with
   Phillips Community Energy Cooperative
   to assist in the distribution system
44
   equipment and construction costs for a
45
   biomass district energy system.
   appropriation is contingent on all
47
    appropriate permits being obtained and
48
    a signed commitment of financing for
    the biomass electrical generating
49
50
   facility being in place.
                                                            466,000
   (i) Laurentian Energy Authority Biomass Project
   $233,000 the first year and $233,000
   the second year are from the trust fund
53
   to the commissioner of natural
   resources for an agreement with
   Virginia Public Utility to lease land
56
    and plant approximately 1,000 acres of
58
    trees to support a proposed conversion
    to a biomass power plant.
    Subd. 11. Environmental Education
                                                            360,000
                                             360,000
```

1	Summary by Fund	
2	Trust Fund 360,000 360,000	
3	(a) Enhancing Civic Understanding of Groundwater	150,000
4 5 6 7 8 9 10 11 12 13 14 15 16	\$75,000 the first year and \$75,000 the second year are from the trust fund to the commissioner of natural resources for an agreement with the Science Museum of Minnesota to create groundwater exhibits and a statewide traveling groundwater classroom program. This appropriation is available until June 30, 2008, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.	
17 18	(b) Cedar Creek Natural History Area Interpretive Center and Restoration	400,000
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	\$200,000 the first year and \$200,000 the second year are from the trust fund to the commissioner of natural resources for an agreement with the University of Minnesota, Cedar Creek Natural History Area, to restore 400 acres of savanna and prairie; construct a Science Interpretive Center to publicly demonstrate technologies for energy efficiency; and create interpretive trails. This appropriation is available until June 30, 2008, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.	
35 36	(c) Environmental Problem-Solving Model for Twin Cities Schools	75,000
37 38 39 40 41 42		
43	(d) Tamarack Nature Center Exhibits	95,000
44 45 46 47 48 49	\$47,000 the first year and \$48,000 the second year are from the trust fund to the commissioner of natural resources for an agreement with Ramsey County Parks and Recreation Department to develop interactive ecological exhibits at Tamarack Nature Center.	1
51 52	Subd. 12. Children's Environmental Health 100,000	100,000
53	Summary by Fund	
54	Trust Fund 100,000 100,000	
55 56	Minnesota Children's Pesticide Exposure Reduction Initiative	200,000
57	\$100,000 the first year and \$100,000	

- the second year are appropriated to the commissioner of agriculture to reduce children's pesticide exposure through parent education on alternative pest control methods and safe pesticide use.
- 6 Subd. 13. Data Availability Requirements
- (a) During the biennium ending June 30, 2007, data collected by the projects funded under this section that have 10 value for planning and management of natural resource, emergency preparedness, and infrastructure 12 investments must conform to the enterprise information architecture developed by the Office of Technology. Spatial data must conform to geographic 17 information system guidelines and standards outlined in that architecture 18 and adopted by the Minnesota Geographic Data Clearinghouse at the Land Management Information Center. A description of these data that adheres to Office of Technology geographic metadata standards must be submitted to
- the Land Management Information Center to be made available on-line through the clearinghouse, and the data themselves must be accessible and free to the public unless made private under
- themselves must be accessible and free to the public unless made private under the Data Practices Act, Minnesota
- 31 Statutes, chapter 13.
- 32 (b) To the extent practicable, summary 33 data and results of projects funded 34 under this section should be readily 35 accessible on the Internet and 36 identified as an environment and
- natural resources trust fund project.(c) As part of project expenditures,
- recipients of land acquisition
 appropriations must provide the
 information necessary to update public
- 42 recreation information maps to the 43 Department of Natural Resources in the
- 43 Department of Natural Resources in the 44 form specified by the department.
- 45 Subd. 14. Project Requirements
- 46 It is a condition of acceptance of the 47 appropriations in this section that any
- 48 agency or entity receiving the 49 appropriation must comply with
- 50 Minnesota Statutes, chapter 116P, and
- 51 vegetation planted must be native to
- 52 Minnesota and preferably of the local
- 53 ecotype unless the work program
- 54 approved by the commission expressly
- 55 allows the planting of species that are
- 56 not native to Minnesota.
- 57 Subd. 15. Match Requirements
- 58 Unless specifically authorized,
- 59 appropriations in this section that
- 60 must be matched and for which the match
- has not been committed by December 31,
- 62 2005, are canceled, and in-kind
- 63 contributions may not be counted as

- 1 matching funds.
- 2 Subd. 16. Payment Conditions and Capital Equipment Expenditures
- 3 All agreements, grants, or contracts
- referred to in this section must be
- administered on a reimbursement basis
- unless otherwise provided in this
- section. Notwithstanding Minnesota Statutes, section 16A.41, expenditures made on or after July 1, 2005, or the
- date the work program is approved,
- whichever is later, are eligible for 7.7
- reimbursement unless otherwise provided in this section. Payment must be made .12
- 13
- upon receiving documentation that
- 15 project-eligible, reimbursable dollar
- amounts have been expended, except that
- reasonable amounts may be advanced to
- projects to accommodate cash flow needs 18
- or match federal funds. The advances
- must be approved as part of the work
- program. No expenditures for capital 21
- equipment are allowed unless expressly
- 23 authorized in the project work program.
- Subd. 17. Purchase of Recycled and Recyclable Materials
- A political subdivision, public or
- private corporation, or other entity
- that receives an appropriation in this
- section must use the appropriation in
- 29 compliance with Minnesota Statutes,
- sections 16B.121 and 16B.122, requiring the purchase of recycled, repairable,
- 31
- and durable materials; the purchase of
- uncoated paper stock; and the use of soy-based ink, the same as if it were a
- 34 state agency.
- Subd. 18. Energy Conservation
- 37 A recipient to whom an appropriation is
- made in this section for a capital
- improvement project shall ensure that 39
- the project complies with the
- 41 applicable energy conservation
- standards contained in law, including 42 Minnesota Statutes, sections 216C.19
- and 216C.20, and rules adopted
- thereunder. The recipient may use the
- energy planning, advocacy, and state 46 energy office units of the Department 4.7
- of Commerce to obtain information and
- 49 technical assistance on energy
- conservation and alternative energy
- development relating to the planning
- and construction of the capital 52
- improvement project.
- Subd. 19. Accessibility
- Structural and nonstructural facilities
- must meet the design standards in the
- Americans with Disability Act (ADA) 57
- accessibility guidelines. 58
- Sec. 3. Minnesota Statutes 2004, section 116P.05,
- subdivision 2, is amended to read:

- 1 Subd. 2. [DUTIES.] (a) The commission shall recommend a
- 2 budget plan for expenditures from the environment and natural
- 3 resources trust fund and shall adopt a strategic plan as
- 4 provided in section 116P.08.
- 5 (b) The commission shall recommend expenditures to the
- 6 legislature from the state land and water conservation account
- 7 in the natural resources fund.
- 8 (c) It is a condition of acceptance of the appropriations
- 9 made from the Minnesota environment and natural resources trust
- 10 fund, and oil overcharge money under section 4.071, subdivision
- 11 2, that the agency or entity receiving the appropriation must
- 12 submit a work program and semiannual progress reports in the
- 13 form determined by the Legislative Commission on Minnesota
- 14 Resources, and comply with applicable reporting requirements
- 15 under section 116P.16. None of the money provided may be spent
- 16 unless the commission has approved the pertinent work program.
- 17 (d) The peer review panel created under section 116P.08
- 18 must also review, comment, and report to the commission on
- 19 research proposals applying for an appropriation from the oil
- 20 overcharge money under section 4.071, subdivision 2.
- 21 (e) The commission may adopt operating procedures to
- 22 fulfill its duties under chapter 116P.
- 23 [EFFECTIVE DATE.] This section is effective for interests
- 24 in land acquired after June 30, 2005.
- 25 Sec. 4. [116P.16] [REAL PROPERTY INTEREST REPORT.]
- By December 1 each year, a recipient of an appropriation
- 27 from the trust fund, that is used for the acquisition of an
- 28 interest in real property, must submit annual reports on the
- 29 status of the real property to the Legislative Commission on
- 30 Minnesota Resources in a form determined by the commission. The
- 31 responsibility for reporting under this section may be
- 32 transferred by the recipient of the appropriation to another
- 33 person who holds the interest in the real property. To complete
- 34 the transfer of reporting responsibility, the recipient of the
- 35 appropriation must:
- 36 (1) inform the person to whom the responsibility is

```
transferred of that person's reporting responsibility;
         (2) inform the person to whom the responsibility is
 2
 3
    transferred of the property restrictions under section 116P.15;
 4
    and
         (3) provide written notice to the commission of the
 5
    transfer of reporting responsibility, including contact
    information for the person to whom the responsibility is
 7
    transferred.
 8
    After the transfer, the person who holds the interest in the
    real property is responsible for reporting requirements under
10
11
    this section.
         [EFFECTIVE DATE.] This section is effective for interests
12
    in land acquired after June 30, 2005.
13
14
         Sec. 5. Laws 2003, chapter 128, article 1, section 9,
    subdivision 6, is amended to read:
                                             7,622,000
                                                             5,870,000
16 Subd. 6. Recreation
17
                  Summary by Fund
18
    Trust Fund
                           5,622,000
                                          5,870,000
19
    State Land and Conservation
                           2,000,000
    Account (LAWCON)
    (a) State Park and Recreation Area Land
21
    Acquisition
22
    $750,000 the first year and $750,000
    the second year are from the trust fund
24
    to the commissioner of natural
    resources to acquire in-holdings for
    state park and recreation areas. Land
27
    acquired with this appropriation must
    be sufficiently improved to meet at
29
    least minimum management standards as
    determined by the commissioner of
31
    natural resources. This appropriation is available until June 30, 2006, at
32
33
    which time the project must be completed and final products delivered,
34
    unless an earlier date is specified in
36
37
    the work program.
    (b) LAWCON Federal Reimbursements
38
    $2,000,000 is from the state land and
39
    water conservation account (LAWCON) in
40
    the natural resources fund to the
    commissioner of natural resources for
42
43
    eligible state projects and
    administrative and planning activities
    consistent with Minnesota Statutes,
45
    section 116P.14, and the federal Land
    and Water Conservation Fund Act.
47
    appropriation is contingent upon
   receipt of the federal obligation and
```

- remains available until June 30, 2006, at which time the project must be
- completed and final products delivered, unless an earlier date is specified in
- the work program.
- (c) Local Initiative Grants-Parks and Natural Areas
- \$1,290,000 the first year and
- \$1,289,000 the second year are from the
- 10 trust fund to the commissioner of
- 11 natural resources for matching grants
- to local governments for acquisition
- and development of natural and scenic
- areas and local parks as provided in
- 15 Minnesota Statutes, section 85.019,
- 16
- subdivisions 2 and 4a, and regional parks outside of the metropolitan 17
- area. Grants may provide up to 50
- percent of the nonfederal share of the 20
- project cost, except nonmetropolitan
- 21
- regional park grants may provide up to 60 percent of the nonfederal share of
- 23 the project cost. The commission will
- monitor the grants for approximate 24
- 25 balance over extended periods of time
- 26 between the metropolitan area, under
- 27 Minnesota Statutes, section 473.121,
- 28 subdivision 2, and the nonmetropolitan
- 29 area through work program oversight and
- 30 periodic allocation decisions. For the
- purposes of this paragraph, the match 31
- 32 must be a nonstate contribution, but
- 33 may be either cash or qualifying
- 34 in-kind. Recipients may receive
- funding for more than one project in 35
- any given grant period. This
- 37 appropriation is available until June
- 38 30, 2006, at which time the project
- 39 must be completed and final products
- delivered.
- (d) Metropolitan Regional Parks 41
- Acquisition, Rehabilitation, and 42
- 43 Development
- \$1,670,000 the first year and
- 45 \$1,669,000 the second year are from the
- trust fund to the commissioner of
- natural resources for an agreement with 47
- the metropolitan council for subgrants 49
- for the acquisition, development, and 50 rehabilitation in the metropolitan
- regional park system, consistent with
- 52 the metropolitan council regional
- recreation open space capital
- improvement plan. This appropriation 54
- 55 may not be used for the purchase of
- residential structures.
- appropriation may be used to reimburse
- 58 implementing agencies for acquisition
- 59 of nonresidential property as expressly
- approved in the work program. This appropriation is available until June 60
- 61 62 30, 2006, at which time the project
- must be completed and final products
- delivered, unless an earlier date is 64
- 65 specified in the work program. addition, if a project financed under
 - this program receives a federal grant,

- the availability of the financing from
- this paragraph for that project is
- extended to equal the period of the
- federal grant.
- (e) Local and Regional Trail Grant
- Initiative Program
- \$160,000 the first year and \$160,000
- the second year are from the trust fund
- to the commissioner of natural
- resources to provide matching grants to
- local units of government for the cost 11
- of acquisition, development,
- 13 engineering services, and enhancement
- of existing and new trail facilities.
- This appropriation is available until
- 16 June 30, 2006, at which time the
- project must be completed and final
- 18 products delivered, unless an earlier
- date is specified in the work program.
- 20 In addition, if a project financed
- 21 under this program receives a federal
- 22 grant, the availability of the
- 23 financing from this paragraph for that
- project is extended to equal the period
- of the federal grant.
- (f) Gitchi-Gami State Trail
- \$650,000 the first year and \$650,000
- 28 the second year are from the trust fund
- 29 to the commissioner of natural
- 30 resources, in cooperation with the
- Gitchi-Gami Trail Association, for the 31
- third biennium, to design and construct
- 33 approximately five miles of Gitchi-Gami
- state trail segments. This
- appropriation must be matched by at 35
- least \$400,000 of nonstate money.
- availability of the financing from this
- paragraph is extended to equal the 38
- period of any federal money received.
- (g) Water Recreation: Boat Access,
- Fishing Piers, and Shore-fishing
- \$450,000 the first year and \$700,000 42
- the second year are from the trust fund 43
- to the commissioner of natural
- resources to acquire and develop public
- water access sites statewide, construct 46
- shore-fishing and pier sites, and 47
- restore shorelands at public accesses.
- 48 49 This appropriation is available until
- June 30, 2006, at which time the
- project must be completed and final 51
- 52 products delivered, unless an earlier
- 53 date is specified in the work program.
- (h) Mesabi Trail
- \$190,000 the first year and \$190,000
- the second year are from the trust fund 56
- to the commissioner of natural 57
- resources for an agreement with St.
- . 59 Louis and Lake Counties Regional Rail
- Authority for the sixth biennium to 60
- acquire and develop segments of the 61
- Mesabi trail. If a federal grant is
 - received, the availability of the

- financing from this paragraph is extended to equal the period of the
- federal grant.
- (i) Linking Communities Design,
- Technology, and DNR Trail Resources
- \$92,000 the first year and \$92,000 the
- second year are from the trust fund to
- the commissioner of natural resources
- for an agreement with the University of
- 10 Minnesota to provide designs for up to
- three state trails incorporating
- 12 recreation, natural, and cultural
- features.
- (j) Ft. Ridgley Historic Site
- Interpretive Trail
- \$75,000 the first year and \$75,000 the
- second year are from the trust fund to
- 18 the Minnesota historical society to
- construct a trail through the original
- fort site and install interpretive markers. This appropriation is
- available until June 30, 2006, at which 22
- time the project must be completed and
- 24 final products delivered, unless an
- earlier date is specified in the work
- program.
- (k) Development and Rehabilitation of
- Minnesota Shooting Ranges 28
- \$120,000 the first year and \$120,000
- 30 the second year are from the trust fund
- to the commissioner of natural
- resources to provide technical
- assistance and matching cost-share
- grants to local recreational shooting
- and archery clubs for the purpose of developing or rehabilitating shooting 36
- and archery facilities for public use.
- Recipient facilities must be open to
- the general public at reasonable times and for a reasonable fee on a walk-in 39
- 40
- basis. This appropriation is available 41 until June 30, 2006, at which time the
- 43 project must be completed and final
- 44 products delivered, unless an earlier
- date is specified in the work program.
- (1) Land Acquisition, Minnesota
- Landscape Arboretum 47
- \$175,000 the first year and \$175,000
- the second year are from the trust fund 49
 - to the University of Minnesota for an
- agreement with the University of 51
- 52 Minnesota Landscape Arboretum
- Foundation for the fifth biennium to 53
- acquire in-holdings-within-the
- 55 arboretum's-boundary land from willing
- sellers. This appropriation must be 56
- matched by an equal amount of nonstate 57
- money. This appropriation is available 58 until June 30, 2006, at which time the
- 60 project must be completed and final
- products delivered, unless an earlier
- date is specified in the work program.

VI. Revenues and Distributions

"the source and amount of all revenues collected and distributed by the commission, including all administrative and other expenses..."

Funding Source Statutory Reference:

Environment and Natural Resources Trust Fund

MN Constitution - Amendment Article 11, Sec. 14

Minnesota Future Resources Fund

MS 116P.13

Oil Overcharge Money

MS 4.071

Great Lakes Protection Account

MS 116Q.02

Appropriations for LCMR Administrative Expenses

Statutory reference MS 116P.09

The amounts shown here are part of the total appropriation above

•	Environment &	Carryforward	Future	
Appropriation	Natural Resources		Resources	Year
Year	Trust Fund		Fund	Total
1991			850,000	850,000
1993	270,000		425,000	695,000
1995	394,000		308,000	702,000
1997	472,000		304,000	776,000
1999	567,000	4	333,000	900,000
2001	738,000		389,000	1,127,000
2003	672,000	172,000 **	428,000	1,272,000
	e.		0 *	•
2005	899,000		0	899,000 ***
Total	3,113,000		3,037,000	5,050,000

Citizen Advisory Committee (CAC) budget included in LCMR Administrative Expenses from 1991 - 2001.

In 2003, CAC had a separate appropriation of \$45,000 and was NOT included in the LCMR Administrative Expenses.

In 2005, CAC has a recommended separate appropriation of \$35,000 (\$20,000 from 06-07 and \$15,000 04-05 Carryforward)

NOTES:

^{*} Future Resources Fund was redirected to the General Budget, not to be recommended by the LCMR per per ML 2003, Ch. 128, Art. 1, Sec. 146 & Sec. 155.

^{**} Carryforward from 02-03 (Trust Fund)

^{*** 2.7%} of the total appropriation, not including CAC Expenses

Appropriations from Revenue Sources available to the LCMR for Funding Recommendations

Appropriation Year	Environment and Natural Resources Trust Fund	Future Resources Fund	Oil Overcharge Money	Land & Water Conservation (LAWCON)	Great Lakes Protection Account	Totals
1 991 Ch 254 Art. 1 Sec	14,960,000 c.14	16,534,000	3,500,000		0	34,994,000
1993 Ch 174 Sec. 14	24,600,000	14,662,000	2,012,000		0	41,274,000
1994 Ch 632 Art. 2 Sec	1,346,000 c. 6	1,404,000	. 0		. 0	2,750,000
1995 Ch 229 Sec. 19,	18,019,000 <i>20, 21</i>	15,083,000	2,055,000		130,000	35,287,000
1996 Ch 407 Sec. 8	1,630,000	3,258,000	0		0	4,888,000
1997 Ch 216 Sec. 15	22,270,000	14,668,000	150,000		120,000	37,208,000
1999 * Ch 231, Sec. 16	26,010,000	16,040,000	0		200,000	42,250,000
2001 ** 1st. Sp.Ses.,Ch. 2	34,620,000 2, Sec. 14	15,385,000	180,000		87,000	50,272,000
2002 Ch. 220, Art. 8, S	316,000 ec. 1 & 8	0	0		0	316,000
2003 *** Ch. 128, Art. 1, S	30,100,000 ec. 9	17,870,000 0 *	519,000	2,000,000 **	56,000	50,545,000 32,675,000
2005 Recommended	37,658,000	0	0	1,600,000 **	28,000	39,286,000
	173,871,000	114,904,000	8,416,000		593,000	371,745,000
NOTE: Does	not reflect vetoes bek	ow.				
* 1999 Veto	350,000 TF 200,000 TF 1,200,000 FF 1,750,000	= '	** 2001 Veto		275,000 I 455,000 730,000	

^{* 2003} Future Resource Fund was readirected to the General Fund, not to be recommended by the LCMR per ML 2003, Ch. 128, Art. 1, Sec. 146 & Sec. 155.
** Previous to 2003, the LAWCON money was included in the Future Resource Fund appropriation for purposes of this chart.

VII. Assets and Liabilities

"a description of the assets and liabilities of the trust fund and the Minnesota future resources fund..."

The following documents were supplied by the State Board of Investment and the Department of Finance.

2003 Annual Report

Minnesota State Board of Investment The Environmental Trust Fund was established in 1988 by the Minnesota Legislature to provide a long-term, consistent and stable source of funding for activities that protect and enhance the environment. On June 30, 2003, the market value of the Fund was \$289 million.

By statute, the State Board of Investment (SBI) invests the assets of the Environmental Trust Fund. The Legislature funds environmental projects from a portion of the market value of the Fund.

Investment Objective

The Environmental Trust Fund's investment objective is long-term growth in order to produce a growing level of spending within the constraints of maintaining adequate portfolio quality and liquidity.

Investment Constraints

In November 1998, Minnesota voters passed a constitutional amendment to continue the mandate that 40 percent of the net proceeds from the state lottery be credited to the Fund through 2025.

The amendment also provides for spending 5.5 percent of the Fund's market value annually, beginning fiscal year 2000 and the amendment eliminates the accounting restrictions on capital gains and losses and the provision that the principal must remain inviolate.

Asset Allocation

During fiscal year 1994, the SBI introduced equities into the portfolio and moved to a targeted 50% allocation to domestic common stocks and 50% to bonds. This allocation was maintained through fiscal year 1999.

After the constitutional amendment was adopted in 1998, SBI staff

worked with the Legislative Commission on Minnesota Resources to establish an asset allocation policy that is consistent with the Commission's goals for spending and growth of the Fund.

The SBI approved a 70% stock and 30% fixed income asset allocation which was implemented July 1, 1999. The allocation positions the Fund for the best long-term growth potential while meeting the objective of the Fund to produce a growing level of spending.

Figure 38 presents the actual asset mix of the Environmental Trust Fund at the end of fiscal year 2003. The

current long term asset allocation targets for the Fund are:

Domestic Stocks	70%
Domestic Bonds	28
Cash	2

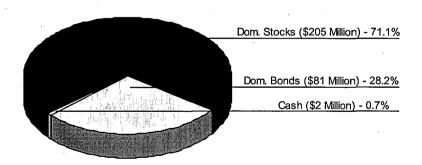
Investment Management

SBI staff manage all assets of the Environmental Trust Fund. Given the unique constraints of the Fund, management by SBI staff is considered to be the most cost effective at this time.

Stock Segment

The stock segment of the Fund is passively managed to track the performance of the S&P 500.

Figure 38. Environmental Trust Fund Asset Mix as of June 30, 2003



Note: Percentages may differ slightly due to rounding of values.

Environmental Trust Fund

Bond Segment

The bond segment is actively managed to add incremental value through sector, security and yield curve decisions and its performance is measured against the Lehman Brothers Aggregate Bond Index.

Investment Performance

During the Fiscal Year, the *stock* segment exceeded the S&P 500 benchmark, returning 0.4 percentage point more than the S&P 500. By investing in all of the stocks in the benchmark at their index weighting, the segment attempts to track the benchmark return on a monthly and annual basis. The portfolio is periodically rebalanced to maintain an acceptable tracking error relative to the benchmark subject to keeping trading costs at a minimum.

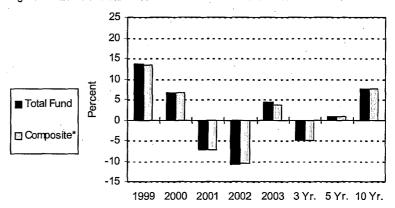
The **bond** segment outperformed its benchmark by 1.5 percentage points during the fiscal year.

Overall, the Environmental Trust Fund provided a return of 4.2% for fiscal year 2003, outperforming its composite index by 0.6 percentage point. For the most recent three-year period, the fund exceeded its composite benchmark by 0.1 percentage point. The fund experienced modest outperformance over the last five and ten years due to the incremental value added by both the stock and bond segments. Performance results are presented in Figure 39.

Spendable income generated by the Fund follows:

Fiscal Year	Millions
1997	\$6.8
1998	\$8.8
1999	\$9.7
2000	\$12.7
2001	\$12.7
2002	\$17.1
2003	\$17.1

Figure 39. Environmental Trust Fund Performance FY 1999-2003



						Annualized		zed
	1999	2000	2001	2002	2003	3 Yr.	5 Yr.	10 Yr.
Total Fund	13.6%	6.6%	-7.3%	-10.9%	4.2%	-4.9%	0.8%	7.6%
Composite*	13.3	6.7	-7.4	-10.5	3.6	-5.0	0.7	7.5
Stock Segment	23.1	7.4	-14.6	-18.2	0.7	-11.1	-1.5	10.2
S&P 500	22.8	7.2	-14.8	-18.0	0.3	-11.2	-1.6	10.0
					7			
Bond Segment	3.7	4.7	11.2	7.0	11.9	10.0	7.6	7.6
Lehman Aggregate	3.1	4.6	11.2	8.6	10.4	10.1	7.5	7.2

^{*} Weighted 50% S&P 500/ 48% Lehman Aggregate, and 2% 3 Month T-Bills through June 1999. Weighted 70% S&P 500/ 28% Lehman Aggregate/ and 2% 3 month T-Bill beginning July 1, 1999.

VIII. Findings

"any findings or recommendations that are deemed proper to assist the legislature in formulating legislation.."

No findings or recommendations at this time.

IX. Gifts and Donations

"a list of all gifts and donations with a value over \$1,000..."

No gifts or donations were received.

X. Environmental Spending Comparisons

"a comparison of the amounts spent by the state for environment and natural resources activities through the most recent fiscal year..."

The 2004-2005 Minnesota Budget A Fiscal Policy Review

Environment, Natural Resources and Agriculture



Minnesota State Senate Office of Fiscal Policy Analysis G-9 State Capitol - Saint Paul, Minnesota

January, 2004

Environment, Natural Resources and Agriculture

Overview

The total available budget for Environmental, Natural Resources and Agricultural activities for the 2004-2005 biennium is approximately \$1.12 billion. Less than half of this budget comes from the General Fund. In addition to the General Fund, there are a large number of smaller funds and accounts that hold fees and other receipts dedicated to specific activities. Approximately \$774.7 million (69%) is directly appropriated in 2003 session law (Chapter 128) and approximately \$344.3 million (31%) is authorized by existing statutory language. Table 1 identifies different funding sources and appropriation types that make up the budget.

Table 1: Appropriations By Source and Law Type			
	Direct:	Statutory:	Both
	Uncodified Law	Codified Law	Types
Taxes, General Revenues	\$ 373,291,000	\$ 59,328,000	\$ 432,619,000
(General Fund)	(33.4%)	(5.3%)	(38.7%)
Dedicated Fees and Receipts (Other Funds)	\$ 401,401,000	\$ 284,930,000	\$ 686,331,000
	(35.8%)	(25.5%)	(61.3%)
Both Sources	\$ 774,692,000 (69.2%)	\$ 344,258,000 (30.8%)	\$ 1,118,950,000

Appropriations made in statute are the more fundamental, ongoing spending commitments of the state. These are generally forecasted amounts, based on levels of activity expected to occur in each activity. The three large General Fund statutory spending commitments are: \$25 million for payments in-lieu of taxes (PILT) made by the state to local jurisdictions for state-owned natural resources lands, \$19 million for emergency firefighting activities and \$15 million for treaty payments made to tribes for limiting the use of their harvest rights in various treaty areas. The largest non-General Fund statutory amounts are expected to be:

- \$92 million in Federal money,
- \$81 million from the Special Revenue Fund (mostly fee revenues),
- \$44 million from the Remediation Fund (mostly money from the Solid Waste Management Tax),
- \$40 million from the Agricultural Fund (agricultural fees),
- \$7.6 million from the Game and Fish Fund (hunting and fishing licenses),
- \$5 million from the Environmental Fund (pollution control fees), and
- \$5 million in dedicated gift money.

Much of this money has restrictions on how it may be spent that go beyond what can be easily changed by amending statutes. For example, Federal money has Federal

	Table 2: Direct Appropriations for the 2004-2005 Biennium, by Fund			
	Fund or Account	\$ thousands	%	
	General	373,291	48 %	
ĺ	Game and Fish	164,642	· 21 %	
	Natural Resources	102,662	13 %	
	Environmental	77,612	10 %	
	Remediation	23,714	3 %	
	State Government	96	·	
	Env. & Natl. Res. Trust	30,100	4 % *	
	LAWCON Account	2,000	-	
	Oil Overcharge Account	519	-	
	Great Lakes Account	56		
		774,692	100 %	

restrictions prescribing activities to be accomplished; Agricultural Fund monies are mostly payments for the costs of specific services provided by the Department of Agriculture; and hunting and fishing fees and pollution control fees have fiduciary obligations on them beyond the specific guidelines placed on the dollars in statute.

Direct appropriations for Environmental, Natural Resources and Agricultural activities for the 2004-2005

biennium total approximately \$775 million. Table 2 lists directly appropriated amounts by fund. Approximately 48 percent of the directly appropriated budget comes from the General Fund. Most of the non-General Fund budget comes from dedicated license and permit fees. The Environment and Natural Resources Trust Fund and three smaller accounts are appropriated via the recommendation process of the Legislative Commission on Minnesota Resources (LCMR).

Historical Context

Several trends within the Environmental, Natural Resources and Agricultural areas have influenced budgetary needs over the past few bienniums. Most fundamentally, a growing population means more people wanting to use the natural resources of the state, yet more pollution being generated. It also means a continuation of the fragmentation of natural habitats and a loss of agricultural land around urban areas. In addition to there being more people, more of them are retired, have more free time and more disposable income. These trends exponentially increase demands on lakeshore and other recreational areas. Beyond this, there are increasing complexities to the problems being faced. Pollution problems are no longer concentrated in several large sources such as factories, but come from "non-point" activities such as car exhaust and stormwater runoff. The pollutants that threaten human health are smaller particles and, in agriculture, more exotic diseases. Also, there are increasing demands for food safety activities because of more exotic pathogens and the potential for terrorist activities on our food supply. And the infrastructure we have in place to address all these issues is, in many areas, beyond its expected lifetime and in need of replacement.

Given the fact that nearly half the budget for Environmental, Natural Resources and Agricultural activities has come from the General Fund and the fact that broad economic trends and state's tax structures have resulted in severe drops in revenues to the General Fund, budgetary cuts have naturally followed. While some activities could be scaled back and some fees could be increased to offset General Fund losses, some activities have had to be abandoned.

Fiscal Summary

Table 3 compares direct appropriations for the 2004-2005 biennium with direct appropriations for the 2002-2003 biennium. Appropriations for 2002-2003 include those made in the original budget act (Laws of 2001, First Special Session Chapter 2) and the directly enacted changes made in Laws of 2002, Chapters 220, 355, 374 and 376. Not included are one-time hiring and contract freezes apportioned out from the Laws of 2002, Chapter 220 (as amended by Chapter 374) or one-time unallotments made by the Pawlenty Administration in February, 2003. The emergency, across-theboard and one-time nature of these reductions puts them in a different category from the more thoughtful and directly enacted changes made to the bill. An alternative and more meaningful comparison is that between the anticipated "base" 2004-2005 budget and the 2004-2005 appropriations enacted. The base is calculated by continuing the 2003 appropriation amounts into 2004 and 2005, unless language enacted clearly indicates that the amounts

Table 3: Direct App	propriation	ns by Agen	cy
(\$ thousands)	2002-03	2004-05	Change
Pollution Control Agency		.**	
General Fund	33,851	29,430	-13.1%
Environmental Fund	45,119	53,624	18.9%
remediation funds	24,821	22,808	-8.1%
State Government Fund	95	96	1.1%
Total	103,886	$105,9\overline{58}$	$\frac{2.0\%}{2.0\%}$
Office of Environmental A			
General Fund	29,785	23,520	-21.0%
Solid Waste, Env. Funds	25,106	23,988	<u>-4.5%</u>
Total	54,891	47,508	-13.5%
Minnesota Zoo		,	
General Fund	14,730	13,114	-11.0%
Natural Resources Fund	304	248	<u>-18.4%</u>
Total	$15,\overline{034}$	13,362	-11.1%
Department of Natural Res	ources		
General Fund	217,962	183,336	-15.9%
Game and Fish Fund	159,032	164,642	3.5%
Natural Resources Fund	92,956	101,434	9.1%
Remediation Fund	<u>200</u>	<u>200</u>	<u>0.0%</u>
Total	470,150	449,612	-4.4%
Board of Water and Soil Re	esources		
General Fund	36,236	30,863	-14.8%
Department of Agriculture			
General Fund (incl. ethanol)	114,163	82,022	-28.2%
Remediation Fund	<u>700</u>	<u>706</u>	<u>0.9%</u>
Total	114,863	82,728	-28.0%
Small Agencies			
Ag Utilization (AURI)	7,609	3,200	-57.9%
Board of Animal Health	5,836	5,606	-3.9%
Science Museum	2,535	1,500	-40.8%
Conservation Corps	0	1,680	(was DNR)
Mn/Wisc Border Comm	393	0	-100%
Horticulture Society	148	0	-100%
Minnesota Resources (LCN			
Env. & Natl. Res. Trust	34,481	30,100	-12.7%
Future Resources Fund	14,046	0	-100%
LAWCON Account	1,064	2,000	88%
Oil, Great Lakes Accts	<u>267</u>	<u>575</u>	<u>115.4%</u>
Total	49,858	32,675	-34.5%
TOTAL	861,894	774,692	-10.1%

should change in the following biennium. If this is the case, these intentions are honored as a starting point. Since the base is the most accurate continuation of existing budget plans, comparing it with the enacted budget is usually the most meaningful measure of how budgets changed. The relationship to base will be focused on in the individual sections below.

It should be noted that the 2002-2003 General Fund amount for the Department of Agriculture in Table 3 includes the open appropriation for ethanol. This is to keep an apples-to-apples comparison with the 2004-2005 biennium, in which the appropriation for ethanol is made directly.

Policy Review

Pollution Control Agency

Direct Appropriations:		Statutory Appropriations:	
General Fund	29,430,000	Federal Funds	48,596,000
Environmental Fund	53,624,000	Remediation Fund	40,211,000
Remediation Fund	22,808,000	Special Revenue Fund	23,532,000
State Government Fund	96,000	Other Funds	<u>2,477,000</u>
	105,958,000		114,816,000

The Pollution Control Agency (PCA) is charged with the protection of Minnesota's air, land, and water from pollution. The agency accomplishes this through evaluation, education, assistance, and enforcement activities.

For the 2004-2005 biennium, the PCA's General Fund appropriation was cut by \$3.34 million. This is a reduction of 10.2 percent from base-level funding. The main change was made by cutting almost \$1.3 million per year for water quality compliance and enforcement and replacing it with an appropriation for the same amount from the Environmental Fund. Similarly, a \$224,000 per year appropriation for hazardous waste response activities was shifted onto the Environmental Fund. In addition, \$62,000 per year for mercury reduction was eliminated and the General Fund appropriation for administration was reduced by \$104,000 per year.

The most significant changes in the PCA's budget were made in the Agency's fee-supported funding structure. Based on years of discussions with stakeholder groups and the recommendations of a broad-based funding options working group, the Agency's funding structures were simplified and made more flexible. Revenues from existing taxes on solid waste collection activities were redirected from the Solid Waste Fund (which was then abolished) to the Environmental Fund, which is where most pollution-related fees are already collected. Authorized uses of the money in the Environmental Fund were broadened to allow for more flexibility in addressing the main permitting, compliance, enforcement, monitoring and other ongoing activities of the Agency. Funding for activities that are of a more long-term cleanup nature were moved out of the Environmental Fund and into a newly-created Remediation Fund, dedicated solely to cleanup/remediation activities.

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In addition to adding flexibility to the Environmental Fund, revenue to the fund was bolstered by increases in water quality permit fees, stormwater permit fees and hazardous waste fees. A new fee was also added (see M.S. 115A.551) for the installation

of individual sewage treatment system (ISTS) tanks. With these new fees available, the total directly-appropriated 2004-2005 budget for the PCA increased by nearly \$6 million, which is approximately 5 percent over the base.

Office of Environmental Assistance

Direct Appropriations:		Statutory Appropriations:	
General Fund	23,520,000	Environmental Fund	4,416,000
Environmental Fund	23,988,000	Other Funds	<u>106,000</u>
	47,508,000		4,522,000

The mission of the Office of Environmental Assistance (OEA) is to encourage waste prevention and resource conservation, including recycling activities. The OEA works with counties, businesses, schools, community organizations and individual citizens. In addition to research and education, the OEA uses grants and loans as financial incentives to accomplish its mission.

For the 2004-2005 biennium, the OEA's General Fund budget was cut by over \$13 million. This is a reduction of approximately 36 percent from the base. Because over two-thirds of the Office's General Fund base budget was in recycling grants, the largest General Fund reduction fell on these grants. Approximately \$5.4 million per year in recycling grants was shifted from the General Fund to the Environmental Fund. These grants were historically made with General Fund money made available by the millions of dollars from the Solid Waste Management Tax deposited in the General Fund. For the Environmental Fund to be able to absorb this shift, the Environmental Fund appropriation for the solid waste processing payment program was reduced by \$3.5 million per year and qualification requirements for the program (see M.S. 115A.545) were tightened. The other third of the Office's General Fund base was cut by \$1.124 million per year, which is a cut of approximately 19 percent of the base. Among the changes this reduction will bring about are fewer or scaled-back public education and information activities, such as the State Fair booth and the waste reduction campaign.

The main statutory appropriation to the OEA is approximately \$2.2 million per year from metropolitan solid waste fees for metropolitan landfill abatement activities.

Minnesota Zoo

		· · · · · · · · · · · · · · · · · · ·	
Direct Appropriations:	•	Statutory Appropriations:	•
General Fund	13,114,000	Special Revenue Fund	20,029,000
Natural Resources Fund	<u>248,000</u>	Other Funds	2,196,000
	13,362,000		22,225,000

The Minnesota Zoo is a state recreation, education and conservation resource. While it is a state agency, the Zoo has a statutory goal of operating independently. Toward this end, revenues from admission fees, food and beverage sales, retail sales, special programs and gifts are statutorily appropriated for Zoo operations.

For the 2004-2005 biennium, the Zoo's base General Fund appropriation was reduced by \$728,000 per year, which is a 10 percent reduction. One result of the reduction is the closing of the hands-on Zoolab in the Zoo's main building. To partially make up for the reduction, the Zoo raised parking fees and was legislatively authorized

(see M.S. 85A.02, subdivision 17) to have reduced, rather than free, admission for school students. With these changes, the General Fund portion of the Zoo's estimated budget is reduced from approximately 40 percent to approximately 37 percent.

Department of Natural Resources

Direct Appropriations:		Statutory Appropriations:	
General Fund	183,336,000	General Fund	59,262,000
Game and Fish Fund	164,642,000	Special Revenue Fund	31,659,000
Natural Resources Fund	101,434,000	Federal Funds	27,573,000
Remediation Fund	200,000	Game and Fish Fund	7,592,000
	449,612,000	Natural Resources Fund	2,934,000
		Remediation Fund	3,099,000
		Other Funds	4,487,000
	•		136,606,000

The mission of the Department of Natural Resources (DNR) is to manage the state's public lands, parks, timber, waters, minerals and wild animals for their commercial and recreational use.

For the 2004-2005 biennium, the DNR's General Fund budget was cut by nearly \$26 million. This is a reduction of approximately 12.4 percent from the base. Table 4 shows how much in dollars and percentage was cut in each division within the agency. As noted in the table, part of the reduction to the Parks and Recreation division was offset

by an increase in State Park entrance fees, made available by an increase in the division's appropriation from the Natural Resources Fund. The cut to the Waters Division was also ameliorated by over \$1.4 million made available by increased water use fees deposited in the General Fund. Without this, the Water division's cut would have been over 14 percent. Most of the General Fund reductions will result in reduced levels of core services performed by each division. Some pass-through grants were also cut, such as

Table 4: Net Reductions in General Fund Base				
Direct Appropriations for 2004-2005				
		percent		
DNR Division	\$ thousands	below base		
Lands and Minerals	-1,604	-11.1%		
Waters	-1,848	-7.9%		
Forestry	-7,072	-9.7%		
Parks & Recreation	-7,040	-15.3%*		
Trails & Waterways	-1,344	-35.3%		
Fish	-102	-10.1%		
Wildlife	-314	-10.0%		
Ecological Services	-1,310	-17.5%		
Enforcement	+500	+7.2%		
Operations Support	<u>-5,846</u>	<u>-19.4%</u>		
Entire Department	-25,980	-12.4%		
*entrance fee increase reduces this to -9.7%				

money for Red River valley and Mississippi River headwaters water management activities.

In addition to State Park entrance and water use fee increases, several hunting, fishing and other recreational fees were increased. Table 5 lists the increased revenues generated by these fees. Fee increases for Off-Highway Vehicles (OHVs) were intiated mainly to address enforcement activities involved with All-Terrain Vehicle (ATV) use. This subject is controversial and will certainly be addressed again in the future.

Table 5: Net Ne	In		
source	main changes \$	thousands	addition to
Hunting Fees			General
deer license	from \$25 to \$26, ½ price youth	-\$2	Fund and fee
small game license	from \$12 to \$12.50, etc.	\$111	dollars, one
wildlife surcharge	from \$4.00 to \$6.50	\$1,131	significant
waterfowl stamp	from \$5.00 to \$7.50	\$347	source of
pheasant stamp	from \$5.00 to \$7.50	\$293	funding for
Camp Ripley archery fee	from \$6.00 to \$8.00	\$22	the DNR is *
wild rice harvest license	from \$12.50 to \$25.00, etc.	\$30	the in-lieu-of
Fishing Fees			sales tax on
trout and salmon stamp	from \$8.50 to \$10.00	\$278	lottery game
commercial licenses	from \$90 to \$120 for netting, etc.	\$272	sales. The
aquatic plant mmt fees	from \$20 to \$35, cap to \$700	\$250	base level of
winter aeration permits	new fee of \$250	\$70	dedication of
Park, Trail Fees			this tax for
State Park entrance	annual sticker from \$20 to \$25	\$2,580	2004 and ,
camping fees	from \$8 to \$10, \$12 to \$15, etc.	\$1,444	beyond (see
OHV registrations, fines	ATVs from \$18 to \$23, etc.	\$1,255	M.S.
Other			297A.94)
water use fees	V.	\$2,524	was 87.1
utility crossing fees		\$370	percent. In
	Total	\$10,975	order to
			make more

of this revenue source available for the General Fund, however, the dedication was lowered to 72.43 percent. This change redirected over \$3.7 million away from game and fish management, parks and trails (both state and metro), local trails, and zoos. This amounts to a reduction of almost 17 percent from the base level of dedication.

Board of Water and Soil Resources

Direct Appropriations:		Statutory Appropriations:	
General Fund	30,863,000	Special Revenue Fund	267,000

The mission of the Board of Water and Soil Resources (BWSR) is to help local units of government manage and conserve soil and water resources. Over 70 percent of the Board's budget passes through to local units of government. For the 2004-2005 biennium, the Board was appropriated \$30.863 million from the General Fund. This is a reduction of 9.5 percent from the base budget. Natural resources block grants to local units of government were cut by \$784,000 per year (16 percent of the base), which will reduce local water planning activities. Grants to soil and water conservation districts (SWCDs) for cost-sharing assistance were cut \$650,000 per year (16.5 percent of the base), which will reduce the amount of assistance districts can provide for feedlot management and other water quality management activities. General services grants to SWCDs were cut \$471,000 per year (11.7 percent of the base), which will mainly reduce assistance for Reinvest In Minnesota (RIM) easement activities. Additions to the base

budget were \$100,000 per year for Red River basin planning and coordinating activities and \$105,000 per year for Minnesota River area 2 floodplain management activities. Also, wetland banking fees (see M.S. 103G.2242) were enacted. These fees are expected to generate \$128,000 per year for the General Fund, so the same amount was also added to BWSR's base budget to administer the wetland banking program.

Department of Agriculture

Direct Appropriations:		Statutory Appropriations:	€ · ·
General Fund	82,022,000	Agricultural Fund	39,739,000
Remediation Fund	<u>706,000</u>	Federal Funds	12,974,000
	82,728,000	Special Revenue Fund	6,491,000
		Other Funds	3,946,000
•			63,150,000

The mission of the Minnesota Department of Agriculture (MDA) is to protect public health and safety regarding the content and quality of food and agricultural products and to insure and promote orderly commerce in agricultural and food products.

For the 2004-2005 biennium, the MDA was appropriated just over \$82 million from the General Fund. This is 25 percent decrease from the base budget. The largest item of reduction was a cut of approximately \$22.3 million (33.4 percent of the base) in ethanol producer payments. Chapter 128 provides that producer payments for fiscal years 2004 through 2007 will be made at a rate of 13 cents per gallon and will return to the statutorily set rate of 20 cents per gallon (see M.S. 41A.09, subdivision 3a) in fiscal year 2008. In the mean time, if appropriations become available, statute provides that deficiency payments should be made to producers who received less than 20 cents per gallon due to the lower appropriation in Chapter 128 or the unallotment of the ethanol appropriation that was made in fiscal year 2003.

The General Fund appropriation for Protection Services was reduced by \$987,000 per year (10 percent of the base) but fee increases for food, dairy, seed, nursery and phytosanitary activities were made, allowing for an increase of \$1.3 million per year (approximately 7.7 percent over base) in statutory appropriations from the Agricultural Fund. The General Fund appropriation for Marketing and Development was reduced by \$878,000 per year (7.2 percent of the base) by eliminating money for the value-added livestock program, the Ag in the Classroom program, the Minnesota Institute for Sustainable Agriculture and beaver damage control grants and by reducing several other programs. The General Fund appropriation for Administration and Financial Assistance was reduced by \$694,000 per year (12.8 percent of the base) by making a variety of service cuts.

Agricultural Utilization Research Institute

Direct Appropriations:

General Fund

3,200,000

The mission of the Agricultural Utilization Research Institute (AURI) is to help develop new uses or value improvements for Minnesota agricultural commodities and to identify and expand markets for new or existing commodities, ingredients and products.

AURI works with clients to help determine the feasibility and potential scope of new uses, focusing on expanding value-added processing activities within the state. For the 2004-2005 biennium, the Institute's General Fund base budget was cut by 57 percent. As a result, AURI closed its offices in St. Paul and Waseca and closed its pilot plant in Crookston. In addition, it reduced its work with smaller, so-called "cottage industries" to focus on projects that may succeed in larger commodity and ingredient markets, such as biodiesel, ethanol processing co-products and livestock processing co-products. One of the main focuses of this work is technical assistance. In addition to the General Fund cut, AURI's base appropriation of \$200,000 per year from the Agricultural Fund was eliminated, ending AURI's Pesticide Reduction Options (PRO) program. The PRO program had for years funded projects intended to reduce the use of petroleum-based pesticides in production agriculture.

Board of Animal Health

Direct Appropriations:		Statutory Appropriations:	
General Fund	5,606,000	Federal Funds	2,550,000
•		State Government Fund	122,000
			2,672,000

The Board of Animal Health seeks to protect, maintain and improve the health of the state's domestic animals. For the 2004-2005 biennium, the Board's General Fund Budget was cut \$400,000 per year (14 percent of the base) by closing the brucellosis lab and reducing some administrative activities. After making these cuts, however, the same amount of General Fund money was appropriated to the Board to perform inspections of cervidae (mainly elk and deer) farms. These inspections are especially concerned with monitoring for chronic wasting disease. To supplement the General Fund appropriation for farmed cervidae inspections, a \$10 per head fee was imposed on cervidae farms (see M.S. 17.452) and the revenue was statutorily appropriated to the Board. It is estimated that this fee will provide approximately \$61,000 per year.

Minnesota Resources Projects

Direct Appropriations:	
Envir. Trust Fund 30,100,000	Every two years, the Legislative
LAWCON Account 2,000,000	Commission on Minnesota Resources (LCMR)
Oil Overcharge Acct 519,000	issues a request for proposals to identify new,
Great Lakes Account 56,000	innovative or accelerative natural resources
32,675,000	projects that help sustain, enhance and wisely

request is open to anyone, but groups that typically pursue LCMR funds include local units of government, private/non-profit organizations, state agencies and higher education institutions.

utilize the state's natural resources. This

The two main sources of funding for LCMR projects have for many years been the Minnesota Future Resources Fund and the Environment and Natural Resources Trust Fund. Trust Fund money comes from the sale of Minnesota Lottery games. Future Resources Fund money traditionally came from cigarette tax revenue. However, in order to help address the state's General Fund deficit, cigarette tax revenue that had been

deposited in the Future

Resources Fund was redirected (see M.S. 297F.10, subdivision 1) to the General Fund. This amounted to a \$13.8 million cut from the expected LCMR package, which is a reduction of approximately 30 percent from what would have been spent on Minnesota resources projects. Table 6 lists appropriation levels for the 2004-2005 biennium by topic. A detailed list of LCMR projects can be found on the LCMR web page

Table 6: LCMR Appropriations by Category				
thousands	<u>%</u>			
12,446	38.1 %			
11,492	35.2 %			
2,000	6.1 %			
2,097	6.4 %			
To 1,382	4.2 %			
s 622	1.9 %			
740	2.3 %			
470	1.5 %			
h 563	1.7 %			
<u>863</u>	2.6 %			
32,675				
	\$ thousands 12,446 11,492 2,000 2,097 50 1,382 5 622 740 470 th 563 863			

at www.commissions.leg.state.mn.us/lcmr.

State-Private Partnerships

Direct Appropriations:

General Fund 2,200,000
Natural Resources Fund 980,000
3,180,000

For the 2004-2005 biennium, \$3.18 million was appropriated to non-state organizations. These appropriations represent

state partnerships with organizations that have played significant roles in the environmental and natural resources activities of the state. The Science Museum of Minnesota received \$1.5 million for the biennium. This amount is approximately 39 percent less than the base-level appropriation to the Museum would have been. The Minnesota Conservation Corps (MCC) received \$700,000 from the General Fund and \$980,000 from the Natural Resources Fund. The MCC previously existed as a program within the DNR but was transferred (see M.S. 84.991), with its existing assets, to a non-profit corporation as of the beginning of Fiscal Year 2004. The section Minnesota Horticultural Society, another non-state organization that had received state support for many years, did not have its base appropriation of \$82,000 per year continued for the 2004-2005 biennium.

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XI. Compliance Audit

"a copy of the most recent compliance audit."

The most recent compliance audit dated October 13, 2000 was included in the January 15, 2001 biennial report. No audit has been completed since that time.