

LEGISLATIVE-CITIZEN COMMISSION ON MINNESOTA RESOURCES

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Susan Thornton, Director

MINUTES

Tuesday, October 22, 2013

9:00 a.m. – 4:00 p.m.

State Office Building, Room 5

St. Paul, MN 55155

Members Present: Jeff Broberg, Tom Cook, Sen. Gary Dahms, Sen. Kari Dziedzic, William Faber, Rep. Dan Fabian, Nancy Gibson, Bonnie Harper-Lore, John Herman, Rep. Leon Lillie, Norman Moody, Rep. John Persell, Sen. David Tomassoni, Rep. Paul Torkelson, Rep. Jean Wagenius, Sen. Torrey Westrom

Staff Present: S. Thornton, M. McDonough, M. Banker, D. Griffith

Members Absent: Sen. John Hoffman

Co-Chair: Rep. Jean Wagenius

1. Approve the minutes for October 15 – 17, 2013

Co-Chair Wagenius called the meeting to order at 9:00 a.m.

MOTION: Commissioner Herman moved to approve the minutes for October 15-17, 2013 – motion prevailed.

2. Members report potential conflicts of interest regarding today's business

MS 116P.09 Subd 6 Conflict of interest. A commission member, technical advisory committee member, a peer review panelist, or an employee of the commission may not participate in or vote on a decision of the commission, technical 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 commission, technical advisory committee, or peer review panel, or being an employee of the commission, a person shall avoid any potential conflict of interest.

Commissioner Wagenius reported a conflict of interest for ENRTF ID: 147-F "Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation", Ruth Shaw – U of MN because her son collaborates with Ruth Shaw on research.

Commissioner Gibson reported a conflict of interest for ENRTF ID: 086-C "The Wolf At Our Door", Darcy Berus – International Wolf Center because she is on the board of the International Wolf Center.

Commissioner Faber reported a conflict of interest for ENRTF ID: 050-B "Restoring Groundwater and Trout Habitat through Irrigation Efficiencies", Gerry Maciej – Benton

Jeff Broberg, Tom Cook, Sen. Gary Dahms, Sen. Kari Dziedzic, William Faber, Rep. Dan Fabian, Nancy Gibson, Bonnie Harper-Lore, John Herman, Sen. John Hoffman, Rep. Leon Lillie, Norman Moody, Rep. John Persell, Sen. David Tomassoni, Rep. Paul Torkelson, Rep. Jean Wagenius, Sen. Torrey Westrom

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County Soil and Water Conservation District because he is on the board of the Benton County Soil and Water Conservation District.

Commissioner Faber reported a conflict of interest for ENRTF ID: 134-E “ District Heating With Renewable Biomass at Camp Ripley”, Mark Anderson – Minnesota Department of Military Affairs/Minnesota National Guard because he is on the board of the Citizen Committee.

Commissioner Moody reported a conflict of interest for ENRTF ID: 137-E “ Solar PV at Minnesotas Residential Environmental Learning Centers”, Dale Yerger– Deep Portage Learning Center because he serves on the Executive Committee of the Deep Portage Foundation.

Commissioner Dziedzic called members attention to a previous letter from Tom Bottern, Senate Counsel, regarding a family member working at the DNR affirming it did not constitute a conflict of interest with MN DNR’s proposals submitted.

Commissioner Herman reported a conflict of interest for ENRTF ID: 074-C “Urban Environmental Education Engaging Students in Local Resources”, Greg Lais.

3. Environment and Natural Resources Trust Fund dollars available for FY15 (Susan Thornton, LCCMR)

Susan Thornton stated that approximately \$29.4 million (of the \$33,810,000 FY15 Appropriation) is available for allocations because last year \$4,350,000 for FY15 was appropriated in M.L. 2013, Chp. 52, Sec. 2, Subd. 06a “An Aquatic Invasive Species Research Center”.

4. Proposal Allocation Recommendations for the Environment and Natural Resources Trust Fund for FY15 (July 1, 2014)

Members started the discussion on the spreadsheet handout titled “2014 Environment and Natural Resources Trust Fund Proposals – Cumulative Average of Member Rankings – Listed by Category Rank – High to Low”. Members agreed to review proposals with a cumulative average rank of 5.5 or higher by Category area. Commissioner Wagenius stated that dollars would be rounded down to the nearest thousandths as is common practice for appropriations. See Attachment #1.

Commissioner Dziedzic reminded members last year there was about one million dollars not recommended for allocation initially in order to recommend adjustments to proposals after proposers reviewed the dollar amount that was recommended for their project and provided feedback.

Members started reviewing proposals in Category area A. Foundational Natural Resource Data and Information.

Members agreed to consider ENRTF ID: 005-A “Contaminants in Minnesota’s Loons and Pelicans: Phase 2”, MN DNR, Carrol Henderson at \$260,000. Members requested that analysis be completed in Minnesota instead of Connecticut if possible.

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Members agreed to consider ENRTF ID: 004-A “Conserving Minnesota’s Freshwater Mussel Legacy: Quantifying Habitat Interactions”, U of MN, Jessica Kozarek at \$350,000.

Members agreed to consider ENRTF ID: 017-A “Prairie Butterfly Conservation, Research and Breeding Program”, Minnesota Zoological Garden, Erik Runquist at \$625,000.

Members agreed to consider ENRTF ID: 006-A “Wild Bee Surveys in Prairie-Grassland Habitats”, MN DNR, Gerda Nordquist at \$370,000.

Members agreed to consider ENRTF ID: 016-A “Moose Decline and Air Temperatures in Northeastern Minnesota”, MN DNR, Mike Larson at \$600,000.

Members started reviewing proposals in Category area B. Water Resources.

Members agreed to consider ENRTF ID: 040-B “Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration”, Red Lake Watershed District, Tim Cowdery at \$168,000.

Members agreed to consider ENRTF ID: 038-B “Rain Water Reuse and Valuation Investigation”, U of MN, Scott Alexander at \$300,000.

Members agreed to consider ENRTF ID: 035-B “Protecting the State’s Confined Drinking-Water Aquifers”, U. S. Geological Survey, James Stark at \$394,000.

Members agreed to consider ENRTF ID: 030-B “Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes”, U of MN, William Arnold at \$300,000.

Members agreed to consider ENRTF ID: 033-B “Protecting Bacteria from Contaminants to Preserve Water Quality”, U of MN, Paige Novak at \$279,000.

Members agreed to consider ENRTF ID: 031-B “Wastewater Estrogen: Removal Options, Fish Abundance, and Cost”, U of MN, Paige Novak at \$500,000.

Members agreed to consider ENRTF ID: 048-B “Estrogen exposure analyses in Minnesota’s Shallow Lake Wildlife”, St. Thomas University, Kurt Illig at \$136,000.

Members agreed to consider ENRTF ID: 036-B “Water: Solar Driven Destruction of Pesticides, Pharmaceuticals, Contaminants”, U of MN, William Arnold at \$291,000.

Members started reviewing proposals in Category area C. Environmental Education.

Members agreed to consider ENRTF ID: 066-C “Minnesota Conservation Apprenticeship Academy”, BWSR, Jenny Gieseke at \$250,000.

Members agreed to consider ENRTF ID: 071-C “Youth-led Sustainability Initiatives in 40 Greater MN Communities”, Prairie Woods Environmental Learning Center, Dave Pederson at \$350,000.

Members agreed to consider ENRTF ID: 076-C “Raptor Lab: Online and Outdoors!”, U of MN, Julia Ponder at \$186,000.

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Members agreed to consider ENRTF ID: 069-C “Minnesota Stories in a Changing Climate”, Will Steger Foundation, Kristen Poppleton at \$325,000.

Members agreed to consider ENRTF ID: 072-C “Minnesota Pollinator Partnership”, Pheasants Forever, Matt Holland at \$100,000.

Members agreed to consider ENRTF ID: 074-C “Urban Environmental Education Engaging Students in Local Resources”, Wilderness Inquiry, Gregory Lais at \$600,000.

Members agreed to consider ENRTF ID: 083-C “Reducing Lake Quality Impairments through Citizen Action”, Freshwater Society, Alex Gehrig at \$59,000.

Members started reviewing proposals in Category area D. Aquatic and Terrestrial Invasive Species.

Members agreed to consider ENRTF ID: 097-D “Blocking Asian Carp by Optimizing Lock and Dams”, U of MN, Peter Sorensen at \$463,000.

Members agreed to consider ENRTF ID: 101-D “Bioacoustics to Detect, Deter and Eliminate Flying Carp”, U of MN Duluth, Allen Mensinger at \$262,000.

Members agreed to consider ENRTF ID: 098-D “Biosurveillance and Biocontrol of EAB - Phase 2”, MN Department of Agriculture, Monika Chandler at \$447,000. Members recommended funding for activities 1, 2, and 4 only.

Members agreed to consider ENRTF ID: 099-D “Mountain Pine Beetle: Invasive Threat to Minnesota’s Pines”, U of MN, Brian Aukema at \$250,000.

Members started reviewing proposals in Category area E. Air Quality, Climate Change, and Renewable Energy.

Members agreed to consider ENRTF ID: 121-E “Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources”, U of MN, Roger Ruan at \$1,000,000.

Members agreed to consider ENRTF ID: 125-E “Clean Water/Renewable Energy from Beet Waste/Manure”, U of MN, Jun Zhu at \$400,000.

Members agreed to consider ENRTF ID: 112-E “Solar Cell Materials from Sulfur and Common Metals”, U of MN, Lee Penn at \$494,000.

Members agreed to consider ENRTF ID: 116-E “Innovative Groundwater-Enhanced Geothermal Heat Pump Study”, U of MN, Martin Saar at \$196,000.

Members agreed to consider ENRTF ID: 133-E “Next Generation Septic Tank Systems”, U of MN, Bo Hu at \$258,000.

Members agreed to consider ENRTF ID: 137-E “Solar PV at Minnesota’s Residential Environmental Learning Centers”, Eagle Bluff, Wolf Ridge, Deep Portage, Long Lake, Audubon Center of the Northwoods, Laurentian ELC, Dale Yerger at \$150,000.

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Members started reviewing proposals in Category area F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat.

Members agreed to consider ENRTF ID: 151-F "Protecting Bees by Understanding Systemic Insecticides", U of MN, Vera Krischik at \$326,000.

Members agreed to consider ENRTF ID: 163-F "Cattail Management for Wetland Wildlife and Bioenergy Potential", U of MN, Daniel Svedarsky at \$74,000.

Members agreed to consider ENRTF ID: 152-F "Northeast Minnesota White Cedar Restoration, Phase 2", BWSR, Dale Krystosek at \$335,000.

Members agreed to consider ENRTF ID: 146-F "Achieving Pollinator Landscapes with the Greatest Multiple Benefits", U of MN, Marla Spivak at \$864,000. Members stated that the funding is for activities 1 and 2 only. Proposer is encouraged to apply to the Dept. of Agriculture grant programs for funding of other proposal elements.

Members agreed to consider ENRTF ID: 154-F "Protecting the Best of the Best in Southeast", The Nature Conservancy, Richard Biske at \$200,000.

Members started reviewing proposals in Category area G. Land Acquisition.

Members agreed to consider ENRTF ID: 188-G "Connecting the Minnesota River Water Trail and Morton", City of Morton, Carl Colwell at \$198,000.

Members agreed to consider ENRTF ID: 184-G "Mesabi Trail Development - Soudan to Ely Segment", St. Louis & Lake Counties Regional Railroad Authority, Robert Manzoline at \$1,000,000.

Members agreed to consider ENRTF ID: 177-G "SNA Acquisition, Restoration, Improvement & Citizen Engagement", MN DNR, Peggy Booth at \$2,540,000. Members recommended that priority must be given to lands that have been challenged to garner support in the LSOHC process, such as particularly fragile lands or lands only suited for passive recreation.

Members agreed to consider ENRTF ID: 178-G "Metropolitan Regional Park System Acquisition--Phase 3", Metropolitan Council, Arne Stefferud at \$1,500,000.

Members started reviewing proposals in Category area H. Other.

Members agreed to consider ENRTF ID: 192-H "LCC - Web", LCC, Greg Hubinger at \$9,000 per M.S. 3.303, subd. 10.

Members agreed to consider ENRTF ID: 191-H "Contract Management", MN DNR, Amanda Graeber at \$135,000. Members stated that the project should provide better reporting/breakdown of expenditures, such as hours spent per project.

Members agreed to add ENRTF ID: n/a "LCCMR Database", LCCMR, Susan Thornton at \$100,000.

Members recessed at 12:40 p.m. and reconvened at 1:10 p.m.

5. Continue Proposal Allocation Recommendations for the Environment and Natural Resources Trust Fund for FY15 (July 1, 2014)

Staff provided three different scenarios for members to review to continue discussions on allocations. Members agreed to start with the handout titled “2014 Environment and Natural Resources Trust Fund Proposals Cumulative Average of Member Rankings – Listed in Overall Rank – High to Low All Proposals Scoring Below 5.5 with 9 or More Votes of 6 and Above (11 Proposals / \$5,686,467). See Attachment #2.

Members agreed to consider ENRTF ID: 073-C “Bee Discovery Center at the Minnesota Landscape Arboretum”, U of MN, Landscape Arboretum, Peter Moe at \$450,000.

Members agreed to consider ENRTF ID: 157-F “Restoring our Lands and Waters”, Great River Greening, Wiley Buck at \$300,000.

Members agreed to consider ENRTF ID: 077-C “Building Bridges to a Diverse Natural Resources Community”, MN DNR, Michele Hanson at \$500,000. Members stated that the project does not include funds for amphitheater or fishing pond. Proposers need to meet with LCCMR staff on potential implications for scope of work at this funding amount and must coordinate with Wilderness Inquiry's related proposal.

Members agreed to consider ENRTF ID: 008-A “Analyzing and Sharing the Minnesota Breeding Bird Atlas”, Audubon Minnesota, Mark Martell at \$300,000. Members stated that the funds cannot be used for the publication of the book.

Members agreed to consider ENRTF ID: 147-F “Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation”, U of MN, Ruth Shaw at \$600,000.

Members agreed to consider ENRTF ID: 014-A “Impacts of Forest Quality on Declining Minnesota Moose”, U of MN, James Forester at \$300,000.

Members agreed to consider ENRTF ID: 158-F “Protect, Restore and Enhance Significant Watershed Habitat”, Friends of the Mississippi River, Tom Lewanski at \$200,000.

Members agreed to consider ENRTF ID: 019-A “Sandhill Crane Populations and Management in Minnesota”, U of MN, David Andersen at \$250,000.

Members agreed to consider ENRTF ID: 046-B “Sedimental Journey: Watershed-Scale Monitoring of BMP Effectiveness”, Science Museum of Minnesota - St. Croix Watershed Research Station, Daniel Engstrom at \$900,000.

Members agreed to consider ENRTF ID: 162-F “Dredged Sediment for Forest Restoration on Unproductive Minelands”, U of MN - NRRI, Tom Levar at \$300,000. Members recommended that the project must address the overall role of the Army Corps of Engineers and clarify the permitting needed from MPCA.

Members agreed to discuss the handout titled “2014 Environment and Natural Resources Trust Fund Proposals Cumulative Average of Member Rankings – Listed in Overall Rank – High to Low

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All Proposals Scoring Below 5.5 with 8 or More Votes of 6 and Above (6 Proposals / \$2,145,785). See Attachment #3.

Members agreed to consider ENRTF ID: 111-E “Assessing Species Vulnerability to Climate Change Using Phenology”, U of MN, Rebecca Montgomery at \$175,000.

Members agreed to consider ENRTF ID: 020-A “Expand the Minnesota Wildflowers Online Botanical Reference”, MN Wildflowers Information, Katy Chayka at \$150,000. Members recommended the project needs to address a transfer of assets to the state in the event organization dissolves or no longer maintains the website. Organization needs to meet with staff to discuss fiscal issues.

Members agreed to consider ENRTF ID: 001-A “Mapping Landscapes for Better Land and Water Management”, U of MN, Joseph Knight at \$300,000.

Members agreed to consider ENRTF ID: 023-A “Restoring Long-Lost Forest Data and Extending Ecological Monitoring”, U of MN, Alan Ek at \$100,000.

Members agreed to consider ENRTF ID: 140-E “Itasca Boiler/Woody Biomass Utilization Project”, Itasca Community College, Bart Johnson at \$112,000. Members stated that funding is for final design only. Students must be involved in the design process. Proposers are encouraged to apply for bonding for the construction.

Members agreed to consider ENRTF ID: 086-C “The Wolf At Our Door”, International Wolf Center, Darcy Berus at \$120,000.

Members agreed to discuss the handout titled “2014 Environment and Natural Resources Trust Fund Proposals Cumulative Average of Member Rankings – Listed in Overall Rank – High to Low All Proposals Scoring Below 5.5 with 9 or More Votes of 5 and Above (7 Proposals / \$4,367,169). See Attachment #4.

Members agreed to consider ENRTF ID: 032-B “Does Triclosan Create Super Bugs During Wastewater Treatment”, U of MN, Timothy LaPara at \$380,000.

Members stopped reviewing the handout and members suggested the following projects for continued discussion at the LCCMR meeting on October 23, 2013:

ENRTF ID: 009-A “State Spring Inventory for Resource Management and Protection”

ENRTF ID: 010-A “Drainage Records Modernization and Statewide GIS Database”

ENRTF ID: 034-B “Watershed Water Budgets for Managing Minnesota’s Water”

ENRTF ID: 045-B “Identifying Causes of Exceptionally High Mercury in Fish”

ENRTF ID: 050-B “Restoring Groundwater and Trout Habitat Through Irrigation Efficiencies”

ENRTF ID: 058-B “Nutrient Capture Through Water Management and Biomass Harvesting”

ENRTF ID: 066-C “Minnesota Conservation Apprenticeship Academy”

ENRTF ID: 073-C “Bee Discovery Center at the Minnesota Landscape Arboretum”

ENRTF ID: 074-C “Urban Environmental Education Engaging Students in Local Resources”

ENRTF ID: 097-D “Blocking Asian Carp by Optimizing Lock and Dams”

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ENRTF ID: 100-D “Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation”

ENRTF ID: 107-D “Invasive Species Control in Grassland Habitats”

ENRTF ID: 109-D “Regional Aquatic Invasive Species Project”

ENRTF ID: 122-E “Transitioning Minnesota Farms to Local Energy”

ENRTF ID: 126-E “Life Cycle Energy of Renewably Produced Nitrogen Fertilizers”

ENRTF ID: 174-F “Victus Farms: Expanding in New Directions”

ENRTF ID: 182-G “VanderWert Scientific and Natural Area and County Park”

ENRTF ID: 183-G “3,500-Foot Shoreland Acquisition on St. Croix River”

6. Other business (as needed)

- Next steps in the process

7. Adjourn

Meeting adjourned at 4:00 p.m.

2014 Environment and Natural Resources Trust Fund Proposals
CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW

Line #	LCCMR ID #	Project Title	Organization	\$ Request	Project Manager	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Average Score - Members that Scored	All Member Scores - High to Low	Total # Members that Scored	Total # Members with Conflict
1	A. Foundational Natural Resource Data and Information (17 Proposals / \$8,977,667)										
2	005-A	Contaminants in Minnesotas Loons and Pelicans: Phase 2	MN DNR	\$259,936	Henderson, Carrol	Statewide	- \$225,000; important work with growing benefits. - Carrol and ESA program. - Extremely important - full funding. - Great project with sad but very necessary funding.	6.82	9,9,9,9,9,8,8,8,7,6,5,4,4,4,2	17	0
3	004-A	Conserving Minnesotas Freshwater Mussel Legacy: Quantifying Habitat Interactions	U of MN	\$356,843	Kozarek, Jessica	Statewide	- Seems interesting, not fully sure of the needed study or value. - \$200,000, Activity 1 and 3, get surveys first, invite back. - Macalester and St. Anthony Falls Lab. - Long overdue.	6.35	9,9,8,8,8,8,8,7,6,6,5,4,3,3,2	17	0
4	017-A	Prairie Butterfly Conservation, Research and Breeding Program	Minnesota Zoological Garden	\$638,439	Runquist, Erik	Central, Northwest, Southwest	- \$400,000 - zoo ativities at \$300,000, DNR at \$100,000. - Reduce by \$100,000 - Fund at \$500,000. - \$550,000 - good research component. - Reduce cost if possible.	6.29	9,9,8,8,8,8,8,7,7,7,6,5,3,3,2,2	17	0
5	006-A	Wild Bee Surveys in Prairie-Grassland Habitats	MN DNR	\$370,736	Nordquist, Gerda	Statewide	- Use BWSR Envirothon students for collection and coordinate with projects 073-C and 066-C. - \$350,000 - invite back for forests & metro surveys. - Solid proposal - critical information. - \$150,000	6.24	9,9,9,8,8,8,8,7,7,7,6,6,4,4,4,2,0	17	0
6	016-A	Moose Decline and Air Temperatures in Northeastern Minnesota	MN DNR	\$743,648	Larson, Mike	Northeast	- \$600,000 - plan to come back for year 3-4. - Full funding. - What does the Swedish prof say? - More promising research.	5.82	9,9,8,8,7,7,7,7,7,6,6,5,3,2,2,0	17	0
7	008-A	Analyzing and sharing the Minnesota Breeding Bird Atlas	Audubon Minnesota	\$386,831	Martell, Mark	Statewide	- \$311,000 - only \$30K for book publication. - Activities 1, 2,, and 3 only. - No money for book subsidy - saves \$100,000. - Reduce funding for book. - Don't fund book publication. - Book?	5.29	9,8,8,8,8,8,7,7,7,3,3,3,3,1,0,0	17	0
8	014-A	Impacts of Forest Quality on Declining Minnesota Moose	U of MN	\$394,496	Forester, James	Northeast	- \$396,000 - fund fully - Low vs other moose studies. - Should know from previous research.	5.24	9,8,8,7,7,6,6,6,5,5,5,4,3,2,2,0	17	0

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9	001-A	Mapping Landscapes for Better Land and Water Management	U of MN	\$378,718	Knight, Joseph	Statewide	- Expensive, concerned about mapping and keeping track of what private citizens do on private land, who's going to have access to this, etc. - \$350,000 - high value/low cost with big public benefit. - Pretty far out of date. - Fund at \$300,000 - Fund at \$350,000 - Lower amount as it is questionable whether LCCMR should fund this. - A well used reference that is needed.	5.24	9,8,7,7,7,7,7,5,5,4,4,3,3,1,0	17	0
10	020-A	Expand the Minnesota Wildflowers Online Botanical Reference	MN Wildflowers Information	\$222,450	Chayka, Katy	Statewide	- Maybe okay. Could be used by all Minnesotans and it helps identify flowers. - \$150,000 - Sound proposal; strong testimonials. - Good reference material onsite. - Excellent private sector resource.	5.24	9,9,8,8,7,7,7,6,5,5,4,3,3,2,1,0	17	0
11	019-A	Sandhill Crane Populations and Management in Minnesota	U of MN	\$306,904	Andersen, David	Central, Northwest	- Cross over effects by joining the studies, such as on pelicans, loons, etc. - \$200,000 - Important research.	5.18	8,8,8,7,7,7,7,6,6,5,5,4,3,2,2,2,1	17	0
12	023-A	Restoring Long-Lost Forest Data and Extending Ecological Monitoring	U of MN	\$196,000	Ek, Alan	Statewide	- \$150,000 - Retrieve past history before gone.	5.00	8,8,8,7,7,7,6,6,5,4,4,4,4,3,2,1,1	17	0
13	003-A	Online Access to Minnesota's Biodiversity for Environmental Management	U of MN	\$342,428	Barker, Keith	Statewide	- \$250,000 - great student utilization. - Good match by Bell.	4.65	9,8,7,6,6,5,5,5,5,4,4,3,3,3,3,2,1	17	0
14	009-A	State Spring Inventory for Resource Management and Protection	MN DNR	\$875,746	Falteisek, Jan	Statewide	- \$250,000 protocol. - Allocate half the funds to test methods. - \$200,000	4.00	9,8,7,7,6,6,6,5,3,3,3,2,2,1,0,0,0	17	0
15	011-A	Impact of Grazing on Native Plants and Pollinators	U.S. Geological Survey	\$465,457	Larson, Diane	Statewide	\$250,000-275,000 - needs more U of M & USGS leverage. - TNC should add match; no pollinator saves \$207,000. - Biased? - Much is already known, use the literature.	3.88	9,8,6,6,5,5,5,4,3,3,3,3,2,2,2,0,0	17	0
16	002-A	Assess and Improve Ecological Health of Trust Lands	U of MN	\$514,395	DAmato, Anthony	Statewide	- DNR should already do this. - \$365,000 - Activity 1 & 2 only. - An economic project.	3.71	9,8,7,7,6,5,4,3,3,3,3,3,2,0,0,0,0	17	0

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17	010-A	Drainage Records Modernization and Statewide GIS Database	BWSR	\$730,000	Kean, Allan	Statewide	- \$480,000 - all of activity 1 & 2 + 50% cost share grants. - Charge to drainage authorities as fee. - Why should LCCMR pay for this??? - Agriculture should pay for this.	3.18	9,8,7,5,5,5,3,3,3,2,1,0,0,0,0	17	0
18	013-A	Redesigned Updating of State and County Forest Inventories	MN DNR	\$1,794,640	Nelson, Jon	Central, Northwest, Northeast, Southeast	- Should be funded from the DNR budget. - Too far behind to catch up with current approaches. - Counties should do it themselves, way too much money. - Forestry received huge boost in funding.	2.88	8,7,6,6,5,5,3,3,3,0,0,0,0,0,0	17	0
19	B. Water Resources (18 Proposals / \$8,742,492)										
20	040-B	Measuring hydrologic benefits from Glacial Ridge habitat restoration	Red Lake Watershed District	\$168,500	Cowdery, Tim	Northwest	- Fully fund, important restoration impacts and information. - Important long term research op. on ecosystem services.	6.53	9,9,8,8,8,8,7,7,7,7,7,4,3,3,1	17	0
21	038-B	Rain Water Reuse and Valuation Investigation	U of MN	\$310,000	Alexander, Scott	Statewide	- More match, give \$200,000.	6.41	9,9,9,8,8,8,7,7,7,6,6,5,5,4,4,2	17	0
22	035-B	Protecting the State’s Confined Drinking-Water Aquifers	U. S. Geological Survey	\$394,000	Stark, James	Statewide		6.29	9,9,8,8,7,7,7,7,6,6,6,6,5,5,4,2	17	0
23	030-B	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	U of MN	\$338,000	Arnold, William	Statewide	- \$250,000 - Just not seeing how research yields outcome. - Fund at \$250,000 - Fund at \$250,000.	5.94	9,8,8,8,8,7,7,7,6,6,6,5,5,4,1,1	17	0
24	033-B	Protecting Bacteria from Contaminants to Preserve Water Quality	U of MN	\$279,000	Novak, Paige	Statewide	- Studying contaminants that kill bacteria could be good. - Better of two projects by Novak.	5.94	9,8,8,7,7,7,6,6,6,6,6,5,5,4,3,3	17	0
25	031-B	Wastewater Estrogen: Removal Options, Fish Abundance, and Cost	U of MN	\$516,000	Novak, Paige	Statewide	- '\$500,000 - Same concern study vs. claimed results - less \$.	5.88	9,8,8,7,7,7,7,7,6,6,6,6,6,3,3,2,2	17	0
26	048-B	Estrogen exposure analyses in Minnesotas Shallow Lake Wildlife	St. Thomas University	\$136,000	Illig, Kurt	Statewide	- Undergraduates, turtles. - Yes, another college and new species! - With implications for human health	5.63	9,9,8,8,7,7,7,6,5,5,5,4,4,3,2,1,	16	0
27	036-B	Water: Solar Driven Destruction of Pesticides, Pharmaceuticals, Contaminants	U of MN	\$291,000	Arnold, William	Statewide	- Impressed with this idea of solar compound to break down pollutants. - \$250,000 - Equipment too costly. - Better of two projects by Arnold.	5.59	9,9,7,7,7,7,6,6,6,6,5,5,4,4,4,3,0	17	0

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28	046-B	Sedimental Journey: Watershed-scale monitoring of BMP effectiveness	Science Museum of Minnesota - St. Croix Watershed Research Station	\$972,000	Engstrom, Daniel	Statewide	- BMPs again? Need enforcement. - Costly and lots of questions remain.	5.00	9,7,6,6,6,6,6,6,5,5,4,4,2,1,0	17	0
29	032-B	Does Triclosan Create Super Bugs During Wastewater Treatment	U of MN	\$382,000	LaPara, Timothy	Metro	- \$375,000	4.82	9,7,6,6,6,6,5,5,5,4,4,3,2,2,1	17	0
30	037-B	Removing Phosphorous and Endocrine Disruptors from our Waterways	U of MN	\$493,000	Valentas, Kenneth	Statewide	- Give them \$300,000, match from user agency.	4.71	7,7,6,6,6,5,5,5,5,5,4,4,3,1,0	17	0
31	058-B	Nutrient Capture Through Water Management and Biomass Harvesting	Red River Basin Commission	\$478,500	Lewis, Jeff	Northwest	- \$300,000	4.53	9,9,9,8,7,7,4,3,3,3,2,1,0,0,0	17	0
32	034-B	Watershed Water Budgets for Managing Minnesota's Water	U.S. Geological Survey	\$129,300	Lorenz, David	Statewide	- County support?	4.35	8,8,8,8,6,5,5,4,4,3,3,2,2,0,0,0	17	0
33	047-B	Demonstrating Farmer Led Conservation in Elm Creek Watershed	Rural Advantage	\$460,360	Meschke, Linda	Southwest, Southeast	- Could be good for farmers to have an analysis of how much nutrient loss is in tiling. Concerned that it is not used to push or require a bunch of new regulations on farmers.	4.24	9,9,8,8,7,7,7,4,3,3,3,2,2,0,0,0,0	17	0
34	051-B	Small-scale Groundwater sustainability assessment	U of MN	\$118,214	Strack, Otto	Statewide	- Simple tool but effective and useful! - \$50,000 - water capture/storage and irrigation.	4.12	8,8,8,7,6,6,5,5,4,4,3,2,2,1,1,0,0	17	0
35	045-B	Identifying Causes of Exceptionally High Mercury in Fish	MN Pollution Control Agency	\$2,700,869	Monson, Bruce	Central, Northwest, Northeast	- \$1,000,000 and find match with clean water. - Much less \$ - Clean Water match or only 2-3 rivers. - Don't we already know this? - For Mercury levels in sediment.	4.06	9,8,8,7,7,7,6,4,3,3,2,2,2,1,0,0,0	17	0
36	062-B	Minnesota River Community Clean-Ups for Water Quality	Friends of the Minnesota Valley	\$85,100	Sparlin, Scott	Metro, Southwest, Southeast	- It help cities out with SWIP plans which they need to demonstrate that things are being done to help reduce pollutants. - \$40,000 - Time for communities to support this one.	4.06	9,8,7,6,5,5,5,4,4,4,3,3,3,2,1,0,0	17	0
37	050-B	Restoring Groundwater and Trout Habitat Through Irrigation Efficiencies	Benton County Soil and Water Conservation District	\$490,649	Maciej, Gerry	Central	- Will it be possible for this project to track nitrogen impacts?	3.25	9,8,8,8,7,3,3,3,1,1,1,0,0,0,0,0	16	1

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38	C. Environmental Education (12 Proposals / \$5,487,834)										
39	066-C	Minnesota Conservation Apprenticeship Academy	BWSR	\$392,000	Gieseke, Jenny	Statewide	- Coordinate with 006-A. - \$250,000 - \$200,000 - Should move to budget. - Fund at \$250,000. - Fund @ \$250,000; no future funds. - \$250,000- needs to become part of regular budget. - \$350,000	7.18	9,9,9,9,9,8,8,8,8,7,7,7,7,6,4,0	17	0
40	071-C	Youth-led Sustainability Initiatives in 40 Greater MN Communities	Prairie Woods Environmental Learning Center	\$397,000	Pederson, Dave	Central, Northeast, Southeast, Southwest	-\$200,000 - Versus 068-C - seems more bang for buck. - Jasmine made a compelling presentation. - \$300,000	6.88	9,9,9,8,8,7,7,7,7,7,7,7,6,5,4,3	17	0
41	076-C	Raptor Lab: Online and Outdoors!	U of MN	\$186,676	Ponder, Julia	Statewide	- \$150,000 - Some match. - Important electronic tool, fund fully. - \$150,000	6.76	9,9,8,8,8,8,8,8,7,7,7,7,6,5,4,3,3	17	0
42	069-C	Minnesota Stories in a Changing Climate	Will Steger Foundation	\$413,860	Poppleton, Kristen	Statewide	- Effective. - Steger iconic - match is high. - Fund at \$300,000 - Great program, lots of testimonials. - \$350,000 - As long as stories reach all kids and parents. - \$200,000	6.06	9,8,8,8,8,8,8,7,7,7,7,7,6,5,0,0,0	17	0
43	072-C	Minnesota Pollinator Partnership	Pheasants Forever	\$104,600	Holland, Matt	Statewide	- Spreads the money to lots of groups. - \$100,000 - Also more versus 068-C. - Great stuff, full funding! - Hands on learning families will not forget. - \$80,000	5.94	9,9,9,8,8,8,7,7,7,6,5,5,5,4,3,1,0	17	0
44	074-C	Urban Environmental Education Engaging Students in Local Resources	Wilderness Inquiry	\$1,093,000	Lais, Gregory	Metro	- Partial funding. - \$350,000 - Fund @ \$350,000. - No one does it better but too pricey. - \$500,000	5.75	9,9,8,8,7,7,7,7,7,7,7,7,2,0,0,0,	16	1
45	083-C	Reducing Lake Quality Impairments through Citizen Action	Freshwater Society	\$59,375	Gehrig, Alex	Central	- If funded, project must include tribal government research done on Mille Lacs Lake and Watershed. - \$59,000 - Good lake association match and local support. - Need wider distribution = then more \$. - Good citizen action. - \$50,000	5.59	9,8,8,8,7,7,7,6,6,6,5,5,4,4,3,1,1	17	0

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46	073-C	Bee Discovery Center at the Minnesota Landscape Arboretum	U of MN, Landscape Arboretum	\$615,279	Moe, Peter	Statewide	- Coordinate with 006-A and include all pollinators. - \$200,000 - 50% less money - private match is needed. - Infrastructure. - Non-native species; received \$2,000,000 last yr from LCCMR. - \$200,000	5.41	9,9,9,8,8,8,7,7,7,7,5,3,2,2,1,0,0	17	0
47	077-C	Building Bridges to a Diverse Natural Resources Community	MN DNR	\$1,100,000	Hanson, Michele	Statewide	- \$500,000 - activities 2, 3, and 4. - Can we tie to USFS \$1,000,000 - what if we don't get? - Fund at \$500,000. - Important to get this porcess started, fund @ \$500,000. - \$500,000. - \$500,000	5.29	9,9,9,8,8,7,7,7,7,6,6,3,2,1,1,0,0	17	0
48	080-C	TV Documentary: The Great Mille Lacs Walleye Mystery	Twin Cities Public Television	\$102,372	Henehan, Brendan	Statewide	- \$100,000 and get it done 6-9 months earlier than. - Need to distribute it to wider audience, web etc. - Could add to the body of knowledge for citizens and decision-makers. - \$80,000	5.06	8,8,8,7,7,7,7,7,7,6,6,1,0,0,0,0	17	0
49	086-C	The Wolf At Our Door	International Wolf Center	\$123,672	Berus, Darcy	Metro	- \$100,000 - Great stuff, fully fund. - Overcoming urban myth in wolf education. - \$100,000	4.88	9,9,9,9,8,7,7,6,5,5,3,1,0,0,0,0	16	1
50	068-C	GreenStep Schools Program: School-based Environmental Education and Stewardship	MN Pollution Control Agency	\$900,000	Sierks, William	Statewide	-\$500,000 - Don't see how this expands. - Match? - \$400,000	4.41	9,8,7,7,6,6,5,4,4,4,4,4,3,3,1,0,0	17	0

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51	D. Aquatic and Terrestrial Invasive Species (10 Proposals / \$8,790,966)										
52	097-D	Blocking Asian Carp by Optimizing Lock and Dams	U of MN	\$463,449	Sorensen, Peter	Statewide	- Will it be an effective way to spend money? - \$1,200,000 - add L&D 8, invite back. - Add L&D 7 and 8, double Activity 2 - cost \$100,000. - Fund higher for Lock/dam 8. - \$750,000. - Need discussion on Lock #8. - Amazing cooperation from ACOE. - Very interested in turning into 2-year plan. - Where is Corps of Engineers?	8.06	9,9,9,9,9,9,9,9,9,8,8,7,7,5,3	17	0
53	101-D	Bioacoustics to Detect, Deter and Eliminate Flying Carp	U of MN Duluth	\$262,907	Mensingher, Allen	Statewide, Northeast	- \$200,000 - Relation to Sorensen?	7.18	9,9,9,8,8,7,7,7,7,7,7,6,5,3	17	0
54	098-D	Biosurveillance and Biocontrol of EAB - Phase 2	MN Department of Agriculture	\$628,100	Chandler, Monika	Statewide	- Concerned about introducing a biocontrol with unknown consequences. - \$400,000 - take out insecticide component. - Activity 1 and 2 only. - Our best hope - no on activity 3. - Remove activity 3 - reduce to \$350,000. - Another good proposal. - Not activity 3. - \$400,000	6.41	9,9,9,8,8,8,7,7,7,6,6,6,5,3,2,2	17	0
55	099-D	Mountain Pine Beetle: Invasive Threat to Minnesotas Pines	U of MN	\$382,100	Aukema, Brian	Central, Metro, Northwest, Northeast, Southeast	- \$300,000 - Why not in regular budget? - Fund at \$300,000. - Sound proposal, fund @ \$300,000. - \$300,000 - need more info from western states. - Manage the pine resource.?	6.06	9,8,8,8,7,7,7,7,7,6,6,6,5,3,2,0	17	0
56	104-D	Minnesota Deers Risk of Invading Epizootic Hemorrhagic Disease	U of MN - College of Veterinary Medicine	\$135,847	Robinson, Stacie	Statewide	- \$135,000 - Why not LSOHC or Game and Fish Fund? - Fund fully, important disease project. - Game and Fish Fund? - Hunting licenses should pay for this. - Game & Fish Fund. - Cervid farms?	5.59	9,9,9,8,8,8,7,7,5,4,4,4,4,3,3,3,0	17	0
57	100-D	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	MN Department of Agriculture	\$266,024	Abrahamson, Mark	Statewide	- \$200,000 - Activity 2 only. - Activity 2 only - other states? - Only activity 2. - Learn from eastern experience instead.	4.41	8,7,6,6,5,5,5,4,4,4,4,3,3,3,3,2	17	0

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58	102-D	Bacterial Biodiversity for Sustainable St. Louis River Estuary	U of MN - Duluth	\$359,849	Hicks, Randall	Northeast	- Activity 2.	4.29	6,6,6,6,5,5,5,5,5,4,4,4,3,2,1,1	17	0
59	109-D	Regional Aquatic Invasive Species Project	Red River Basin Commission	\$219,890	Courneya, Joe	Northwest	Give 50% and ask them back if it works. - Could they get funding from grants thru DNR and/or Legacy?	4.24	9,8,7,7,7,6,6,5,4,3,3,3,2,1,1,0,0	17	0
60	107-D	Invasive Species Control in Grassland Habitats	The Nature Conservancy	\$892,000	Winter, Brian	Central, Northwest, Southwest, Southeast	- \$350,000 - Fund for less \$. - Boots on the ground, can measure success, at least partial funding. - Activity 2. - TNC needs to pay, yet very important puzzle piece. - \$500,000	4.12	9,9,8,7,6,6,5,5,5,3,3,2,1,1,0,0,0	17	0
61	106-D	Accelerated Effort to Understand and Control Zebra Mussels	MN DNR	\$5,180,800	Pierce, Ann	Statewide	- Partial funding. - Way too expensive - activity 2 only. - Good proposal, fund Activity 2 only @ \$700,000. - Relationship to AIS center? - Too costly, too late... - Need additional info on AIS spending. Could possibly do scientific portion. - What have other states done?	4.06	9,8,8,7,6,6,5,5,4,3,2,2,0,0,0,0,	16	0
62	E. Air Quality, Climate Change, and Renewable Energy (12 Proposals / \$8,601,882)										
63	121-E	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources	U of MN	\$2,041,626	Ruan, Roger	Statewide	- Good commercial promise. - \$250,000 - \$1,000,000 - Come back if phase 1 works. - Fund at \$250,000. - Fund @ \$250,000. - \$250,000. - \$1,500,000	6.47	9,8,7,7,7,7,7,7,7,6,6,6,6,6,4,3	17	0
64	125-E	Clean Water/Renewable Energy from Beet Waste/Manure	U of MN	\$403,685	Zhu, Jun	Statewide	- Good project. May become a commercial product to benefit MN. - Fund at \$200,000. - Fund @ \$200,000. - Half of funding request. - \$300,000	6.47	9,9,9,8,8,7,7,7,7,6,6,6,5,5,4,4,3	17	0
65	112-E	Solar Cell Materials from Sulfur and Common Metals	U of MN	\$494,092	Penn, Lee	Statewide	- \$400,000	6.24	9,9,8,8,8,8,8,7,7,7,6,5,4,4,4,3,1	17	0
66	116-E	Innovative Groundwater-Enhanced Geothermal Heat Pump Study	U of MN	\$196,000	Saar, Martin	Statewide	- Fund at \$125,000. - 2/3rds funding.	6.19	9,9,9,7,7,7,7,7,7,6,6,6,5,4,3,0,	16	0

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67	133-E	Next Generation Septic TankSystems	U of MN	\$258,810	Hu, Bo	Statewide	- Maybe good theory, but now thinking not as practical. - \$200,000	6.00	9,9,8,8,8,7,7,6,6,6,5,4,4,3,3,3	17	0
68	137-E	Solar PV at Minnesotas Residential Environmental Learning Centers	Eagle Bluff, Wolf Ridge,Deep Portage , Long Lake , Audubon Center of the Northwoods, Laurentian ELC	\$150,000	Yerger, Dale	Statewide	- Could they use the new solar incentive instead?	5.88	9,9,8,8,7,7,7,7,6,6,5,5,4,4,2,0,	16	1
69	111-E	Assessing Species Vulnerability to Climate Change Using Phenology	U of MN	\$189,845	Montgomery, Rebecca	Statewide	- Great database and invaluable information relating to climate change, fund fully. - Extremely valuable to future decisions.	5.35	9,9,9,8,8,8,7,6,5,5,5,3,3,3,2,1,0	17	0
70	140-E	Itasca Boiler/Woody Biomass Utilization Project	Itasca Community College	\$1,035,100	Johnson, Bart	Northeast	- \$300,000	5.00	9,8,8,7,7,7,7,6,5,5,4,4,3,3,2,0,0	17	0
71	122-E	Transitioning Minnesota Farms to Local Energy	U of MN	\$1,049,992	Reese, Michael	Statewide	- \$750,000 - Not innovative, find match for half. - Ag? - This is Ag’s to do.	4.59	9,7,7,6,6,6,5,5,5,4,4,3,3,3,3,2,0	17	0
72	126-E	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	U of MN	\$512,732	Tallaksen, Joel	Statewide	- Match.	4.18	9,7,7,6,6,6,6,4,4,4,3,3,2,2,2,0,0	17	0
73	134-E	District Heating With Renewable Biomass at Camp Ripley	Minnesota Department of Military Affairs/Minnesota National Guard	\$1,970,000	Anderson, Mark	Central	- Expensive. Maybe try bonding bill. Any way to cut the cost? - Design only. - No innovation - at most design for \$200,000. - Military needs to put in more \$\$. - \$1,500,000	3.56	9,9,7,6,5,4,4,3,3,2,2,1,1,1,0,0,	16	1
74	139-E	Eliminating Sulfur from On-Farm Anaerobic Digester Emissions	MN Department of Agriculture	\$300,000	Hennessy, Kevin	Statewide		3.53	9,8,7,7,6,5,5,4,3,3,2,1,0,0,0,0,0	17	0
75	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (16 Proposals / \$7,151,694)										
76	151-F	Protecting Bees by Understanding Systemic Insecticides	U of MN	\$326,869	Krischik, Vera	Statewide	- It's a real issue that would be okay to get more research on and find out what is killing bees. - Peer review. - Fund @ \$250,000. - A little pricey. - \$300,000	7.12	9,9,9,9,8,8,8,8,7,7,7,7,7,5,5,1	17	0
77	163-F	Cattail Management for Wetland Widlife and Bioenergy Potential	U of MN	\$74,600	Svedarsky, Daniel	Northwest	- Benefits for wetland wildlife, fully fund.	6.41	9,9,9,9,9,9,8,8,7,7,7,5,4,3,3,2,1	17	0

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78	152-F	Northeast Minnesota White Cedar Restoration, Phase 2	BWSR	\$335,800	Krystosek, Dale	Northeast	- Reduce funding.	6.12	9,8,8,8,8,8,7,7,7,5,5,4,3,2,2	17	0
79	146-F	Achieving Pollinator Landscapes with the Greatest Multiple Benefits	U of MN	\$1,714,040	Spivak, Marla	Statewide	- \$1,250,000 - invite back for ongoing efforts. - Activities 1 and 2 only. - Too much and not clear of relationship - no on faculty. - Less money.	5.76	9,9,9,8,8,8,7,6,6,5,4,4,2,0,0	17	0
80	154-F	Protecting the Best of the Best in Southeast	The Nature Conservancy	\$258,500	Biske, Richard	Southeast	- Should be funded by Lessard/Sams potentially. - \$250,000 - If first works, why not local support? - Many partners, good match.	5.53	9,9,8,8,8,8,7,5,5,5,4,4,3,3,0,0	17	0
81	157-F	Restoring our Lands and Waters	Great River Greening	\$414,000	Buck, Wiley	Metro	-\$300,000 - Envir. Ed. as well; LSOHC; 3:1 match. - Fund at \$200,000. - Fund @ \$207,000. - Half?	5.35	9,9,8,8,7,7,7,7,6,6,5,4,3,3,1,1,0	17	0
82	147-F	Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation	U of MN	\$695,000	Shaw, Ruth	Statewide	- \$500,000 - need to act now before the genome is gone. - Like test at multiple sites.	5.25	8,7,7,6,6,6,6,6,6,5,5,5,5,4,2,0,	16	1
83	158-F	Protect, Restore and Enhance Significant Watershed Habitat.	Friends of the Mississippi River	\$204,000	Lewanski, Tom	Metro	-\$150,000 - LSOHC? Why not? Tie to 2:1 match, park agencies. - Fund at \$100,000. - Fund @ \$102,000.	5.24	9,9,8,7,7,7,7,7,6,6,5,4,3,3,1,0,0	17	0
84	172-F	Increasing Habitat and Ecosystem Benefits through Forest management	MN DNR - Div of Forestry	\$268,600	Jacobson, Kent	Statewide	- \$200,000 - Can we do marketing? - \$200,000	4.76	9,9,8,8,7,6,6,5,4,4,3,3,3,3,3,0,0	17	0
85	162-F	Dredged Sediment for Forest Restoration on Unproductive Minelands	U of MN - NRRI	\$495,585	Levar, Tom	Northeast	- Expensive, but maybe the best use and way to get waterway dredged. - A lot of money for common sense. - Land ownership has been cleared up and the possibility of hauling by rail to a sight closer to the final destination is being explored and appears possible. - Ask to complete at earlier date. - \$400,000	4.59	9,9,9,8,7,7,7,7,7,5,3,0,0,0,0,0,0	17	0
86	171-F	Ecological Management Plans - Mississippi River Watershed and Minneapolis	Minneapolis Park and Recreation Board	\$228,800	Ringold, Jennifer	Metro	- Metro diversity. - \$50,000 - invasives initiative.	4.35	8,7,7,7,7,7,6,6,4,4,3,3,2,2,1,0,0	17	0

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87	149-F	Developing Forever Green Crops for Minnesotas Agricultural Landscapes	U of MN	\$847,900	Wyse, Donald	Central, Metro, Northwest, Southwest, Southeast	- Like this project, shows good promise and some good return for farmers with alternative crops, especially in erodable lands, or a double cropping option. - \$750,000 - great potential. - Economic option on open soil - lower amount - does it fit? - Need better crops.	4.18	9,9,7,7,6,6,6,5,5,3,3,3,1,1,0,0,0	17	0
88	164-F	Innovative Technology to Seed Plants on Streambanks	U of MN	\$189,000	Wyatt, Gary	Statewide	- Priority issue and cheap option if works	4.12	9,9,6,6,6,5,5,4,3,3,3,3,2,2,1,0	17	0
89	150-F	Restoring Aquatic Habitat by Reducing Sediment from Streambanks	U of MN - Water Resources Center	\$276,000	Everett, Leslie	Statewide		4.06	8,6,6,6,6,5,4,4,4,4,4,3,3,2,1,0	17	0
90	174-F	Victus Farms: Expanding in New Directions	City of Silver Bay	\$356,000	Fralich, Lana	Northeast	- \$100,000 - make a loan for higher amounts. - Private or LGU match? Mostly UMD money.	4.00	9,8,8,7,6,5,4,4,4,3,3,2,2,0,0,0	17	0
91	161-F	Maintaining Expiring CRP Land Benefits Using Integrative Cropping	U of MN	\$467,000	Zamora, Diomy	Statewide	- \$250,000	3.65	9,9,8,8,6,5,4,4,3,3,2,1,0,0,0,0,0	17	0
92	G. Land Acquisition for Habitat and Recreation (7 Proposals / \$10,855,070)										
93	188-G	Connecting the Minnesota River Water Trail and Morton	City of Morton	\$198,200	Colwell, Carl	Central, Southwest	- Seems like a decent value for 31 acres on the river and for public use. - Fund fully, great acquisition. - Good local support. - \$120,000.	6.88	9,9,9,9,8,8,8,7,7,7,6,6,5,4,3,3	17	0
94	184-G	Mesabi Trail Development - Soudan to Ely Segment	St. Louis & Lake Counties Regional Railroad Authority	\$1,000,000	Manzoline, Robert	Northeast	- \$500,000 - Soudan, use of \$ not clear, LR vs. RR? - Fund at \$500,000. - Great trail, fund @ \$500,000. - \$500,000	6.76	9,9,9,8,8,8,7,7,7,7,6,6,5,3,0	17	0
95	177-G	SNA Acquisition, Restoration, Improvement & Citizen Engagement	MN DNR	\$3,951,870	Booth, Peggy	Statewide	- Too much money, should be funding by L/S out of Legacy funds. - Partial funding. - \$2,500,000 - LCCMR is top funding source; \$2,000,000; Restoration LSOHC? - Fund at \$1,500,000. - \$1,000,000	6.12	9,9,9,9,9,8,8,7,7,7,5,3,3,2,0,0	17	0

Attachment #1

[illegible]

2014 Environment and Natural Resources Trust Fund Proposals
CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED IN OVERALL RANK - HIGH TO LOW
All Proposals Scoring Below 5.5 with 9 or More Votes of 6 and Above (11 Proposals / \$5,686,467)

Line #	LCCMR ID #	Project Title	Organization	\$ Request	Project Manager	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Average Score - Members that Scored	All Member Scores - High to Low	Total # Members that Scored	Total # Members with Conflict
1	073-C	Bee Discovery Center at the Minnesota Landscape Arboretum	U of MN, Landscape Arboretum	\$615,279	Moe, Peter	Statewide	- Coordinate with 006-A and include all pollinators. - \$200,000 - 50% less money - private match is needed. - Infrastructure. - Non-native species; received \$2,000,000 last yr from LCCMR. - \$200,000	5.41	9,9,9,8,8,8,7,7,7,7,5,3,2,2,1,0,0	17	0
2	157-F	Restoring our Lands and Waters	Great River Greening	\$414,000	Buck, Wiley	Metro	-\$300,000 - Envir. Ed. as well; LSOHC; 3:1 match. - Fund at \$200,000. - Fund @ \$207,000. - Half?	5.35	9,9,8,8,7,7,7,7,6,6,5,4,3,3,1,1,0	17	0
3	077-C	Building Bridges to a Diverse Natural Resources Community	MN DNR	\$1,100,000	Hanson, Michele	Statewide	- \$500,000 - activities 2, 3, and 4. - Can we tie to USFS \$1,000,000 - what if we don't get? - Fund at \$500,000. - Important to get this porcess started, fund @ \$500,000. - \$500,000. - \$500,000	5.29	9,9,9,8,8,7,7,7,7,6,6,3,2,1,1,0,0	17	0
4	008-A	Analyzing and sharing the Minnesota Breeding Bird Atlas	Audubon Minnesota	\$386,831	Martell, Mark	Statewide	- \$311,000 - only \$30K for book publication. - Activities 1, 2,, and 3 only. - No money for book subsidy - saves \$100,000. - Reduce funding for book. - Don't fund book publication. - Book?	5.29	9,8,8,8,8,8,7,7,7,7,3,3,3,3,1,0,0	17	0
5	147-F	Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation	U of MN	\$695,000	Shaw, Ruth	Statewide	- \$500,000 - need to act now before the genome is gone. - Like test at multiple sites.	5.25	8,7,7,6,6,6,6,6,6,5,5,5,4,2,0,	16	1
6	014-A	Impacts of Forest Quality on Declining Minnesota Moose	U of MN	\$394,496	Forester, James	Northeast	- \$396,000 - fund fully - Low vs other moose studies. - Should know from previous research.	5.24	9,8,8,7,7,6,6,6,6,5,5,4,3,2,2,0	17	0
7	158-F	Protect, Restore and Enhance Significant Watershed Habitat.	Friends of the Mississippi River	\$204,000	Lewanski, Tom	Metro	-\$150,000 - LSOHC? Why not? Tie to 2:1 match, park agencies. - Fund at \$100,000. - Fund @ \$102,000.	5.24	9,9,8,7,7,7,7,7,6,6,5,4,3,3,1,0,0	17	0

Line #	LCCMR ID #	Project Title	Organization	\$ Request	Project Manager	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Average Score - Members that Scored	All Member Scores - High to Low	Total # Members that Scored	Total # Members with Conflict
8	019-A	Sandhill Crane Populations and Management in Minnesota	U of MN	\$306,904	Andersen, David	Central, Northwest	- Cross over effects by joining the studies, such as on pelicans, loons, etc. - \$200,000 - Important research.	5.18	8,8,8,7,7,7,7,6,6,5,5,4,3,2,2,2,1	17	0
9	080-C	TV Documentary: The Great Mille Lacs Walleye Mystery	Twin Cities Public Television	\$102,372	Henehan, Brendan	Statewide	- \$100,000 and get it done 6-9 months earlier than. - Need to distribute it to wider audience, web etc. - Could add to the body of knowledge for citizens and decision-makers. - \$80,000	5.06	8,8,8,7,7,7,7,7,7,6,6,1,0,0,0,0	17	0
10	046-B	Sedimental Journey: Watershed-scale monitoring of BMP effectiveness	Science Museum of Minnesota - St. Croix Watershed Research Station	\$972,000	Engstrom, Daniel	Statewide	- BMPs again? Need enforcement. - Costly and lots of questions remain.	5.00	9,7,6,6,6,6,6,6,6,5,5,4,4,2,1,0	17	0
11	162-F	Dredged Sediment for Forest Restoration on Unproductive Minelands	U of MN - NRRI	\$495,585	Levar, Tom	Northeast	- Expensive, but maybe the best use and way to get waterway dredged. - A lot of money for common sense. - Land ownership has been cleared up and the possibility of hauling by rail to a sight closer to the final destination is being explored and appears possible. - Ask to complete at earlier date. - \$400,000	4.59	9,9,9,8,7,7,7,7,5,3,0,0,0,0,0,0	17	0
TOTAL \$ REQUEST REMAINING =				\$5,686,467							

2014 Environment and Natural Resources Trust Fund Proposals

Attachment #3

CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED IN OVERALL RANK - HIGH TO LOW

All Proposals Scoring Below 5.5 with 8 or More Votes of 6 and Above (6 Proposals / \$2,145,785)

Line #	LCCMR ID #	Project Title	Organization	\$ Request	Project Manager	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Average Score - Members that Scored	All Member Scores - High to Low	Total # Members that Scored	Total # Members with Conflict
1	111-E	Assessing Species Vulnerability to Climate Change Using Phenology	U of MN	\$189,845	Montgomery, Rebecca	Statewide	- Great database and invaluable information relating to climate change, fund fully. - Extremely valuable to future decisions.	5.35	9,9,9,8,8,8,7,6,5,5,5,3,3,3,2,1,0	17	0
2	020-A	Expand the Minnesota Wildflowers Online Botanical Reference	MN Wildflowers Information	\$222,450	Chayka, Katy	Statewide	- Maybe okay. Could be used by all Minnesotans and it helps identify flowers. - \$150,000	5.24	9,9,8,8,7,7,7,6,5,5,5,4,3,3,2,1,0	17	0
3	001-A	Mapping Landscapes for Better Land and Water Management	U of MN	\$378,718	Knight, Joseph	Statewide	- Expensive, concerned about mapping and keeping track of what private citizens do on private land, who's going to have access to this, etc. - \$350,000 - high value/low cost with big public benefit. - Pretty far out of date. - Fund at \$300,000 - Fund at \$350,000 - Lower amount as it is questionable whether LCCMR should fund this. - A well used reference that is needed.	5.24	9,8,7,7,7,7,7,7,5,5,5,4,4,3,3,1,0	17	0
4	023-A	Restoring Long-Lost Forest Data and Extending Ecological Monitoring	U of MN	\$196,000	Ek, Alan	Statewide	- \$150,000 - Retrieve past history before gone.	5.00	8,8,8,7,7,7,6,6,5,4,4,4,3,2,1,1	17	0
5	140-E	Itasca Boiler/Woody Biomass Utilization Project	Itasca Community College	\$1,035,100	Johnson, Bart	Northeast	- \$300,000	5.00	9,8,8,7,7,7,7,6,5,5,4,4,3,3,2,0,0	17	0
6	086-C	The Wolf At Our Door	International Wolf Center	\$123,672	Berus, Darcy	Metro	- \$100,000 - Great stuff, fully fund. - Overcoming urban myth in wolf education.	4.88	9,9,9,9,8,7,7,6,5,5,3,1,0,0,0,0	16	1
				TOTAL \$ REQUEST REMAINING = \$2,145,785							

2014 Environment and Natural Resources Trust Fund Proposals

Attachment #4

CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED IN OVERALL RANK - HIGH TO LOW

All Proposals Scoring Below 5.5 with 9 or More Votes of 5 and Above (7 Proposals / \$4,367,169)

Line #	LCCMR ID #	Project Title	Organization	\$ Request	Project Manager	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Average Score - Members that Scored	All Member Scores - High to Low	Total # Members that Scored	Total # Members with Conflict
1	032-B	Does Triclosan Create Super Bugs During Wastewater Treatment	U of MN	\$382,000	LaPara, Timothy	Metro	- \$375,000	4.82	9,7,6,6,6,6,5,5,5,4,4,3,2,2,1	17	0
2	037-B	Removing Phosphorous and Endocrine Disruptors from our Waterways	U of MN	\$493,000	Valentas, Kenneth	Statewide	- Give them \$300,000, match from user agency.	4.71	7,7,6,6,6,6,5,5,5,5,5,4,4,3,1,0	17	0
3	003-A	Online Access to Minnesota's Biodiversity for Environmental Management	U of MN	\$342,428	Barker, Keith	Statewide	- \$250,000 - great student utilization. - Good match by Bell.	4.65	9,8,7,6,6,5,5,5,4,4,3,3,3,2,1	17	0
4	122-E	Transitioning Minnesota Farms to Local Energy	U of MN	\$1,049,992	Reese, Michael	Statewide	- \$750,000 - Not innovative, find match for half. - Ag?	4.59	9,7,7,6,6,6,5,5,5,4,4,3,3,3,2,0	17	0
5	102-D	Bacterial Biodiversity for Sustainable St. Louis River Estuary	U of MN - Duluth	\$359,849	Hicks, Randall	Northeast	- Activity 2.	4.29	6,6,6,6,5,5,5,5,5,4,4,4,3,2,1,1	17	0
6	149-F	Developing Forever Green Crops for Minnesotas Agricultural Landscapes	U of MN	\$847,900	Wyse, Donald	Central, Metro, Northwest, Southwest, Southeast	- Like this project, shows good promise and some good return for farmers with alternative crops, especially in erodable lands, or a double cropping option. - \$750,000 - great potential. - Economic option on open soil - lower amount - does it fit? - Need better crops.	4.18	9,9,7,7,6,6,6,5,5,3,3,3,1,1,0,0,0	17	0
7	107-D	Invasive Species Control in Grassland Habitats	The Nature Conservancy	\$892,000	Winter, Brian	Central, Northwest, Southwest, Southeast	- \$350,000 - Fund for less \$. - Boots on the ground, can measure success, at least partial funding. - Activity 2. - TNC needs to pay, yet very important puzzle piece. - \$500,000	4.12	9,9,8,7,6,6,5,5,5,3,3,2,1,1,0,0,0	17	0
TOTAL \$ REQUEST REMAINING =				\$4,367,169							