

Environment and Natural Resources Trust Fund 2019 Proposals  
**CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW**

Line #	LCCMR ID #	Project Title	\$ Request	Organization	Project Manager	Member Notes	Average Score - Members that Scored	All Member Scores - High to Low																	# Members that Scored	# Members with Conflict	Staff Notes
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
4	<b>A. Foundational Natural Resource Data and Information (SELECTED TO PRESENT: 17 Proposals / Subtotal = \$15,768,908)</b>																										
5	018-A	Next Step in Helping Minnesota's Moose: Understand Brain worm Transmission to Find Solutions	\$ 434,186	U of MN	Wolf, Tiffany	-\$400K -\$400K -This is a research gap -Appears needed -\$400k - removes funding for out of state travel	<b>8.13</b>	10	10	9	9	9	9	9	9	9	9	8	8	7	6	6	4	15	0	-Out of state travel expenses- need add'l info	
6	003-A	Restoring Native Mussels in Streams and Lakes	\$ 735,981	MN DNR	Davis, Mike	-\$700K -\$700K -\$700K -\$500K -Expensive	<b>7.47</b>	10	10	10	10	10	10	10	9	9	9	8	7	7	5	2	1	0	17	0	-DNR direct and necessary expenses
7	005-A	Mercury and PFAS Risk to Minnesota Raptors	\$ 282,093	Hawk Ridge Bird Observatory	Etterson, Matthew	-Full Funding -Full Funding -Full Funding -Good project \$150K	<b>7.29</b>	10	10	10	10	10	10	8	7	7	7	7	6	6	6	4	3	3	17	0	
8	001-A	Minnesota Biological Survey – Continuation	\$ 2,987,000	MN DNR	Carlson, Bruce	-\$2M -\$1.5M -\$2M -\$2M -\$2M -\$1.5 -Too Expensive, not convinced of long-term value. -Data update is a concern -\$ available to maintain and how to move towards DNR budget	<b>6.67</b>	10	10	10	9	9	9	8	8	8	7	6	4	2	0	0	15	0	-DNR direct and necessary expenses -Possible reinvestment of revenue from book sales		
9	014-A	Minnesota Trumpeter Swan Migration Ecology and Conservation	\$ 414,372	U of MN	Andersen, David	-\$400K -\$400K -\$300K -Needed data	<b>6.60</b>	10	10	9	9	9	9	8	7	7	7	4	4	3	2	1	15	0	-Cell phone and data fees- need add'l info		
10	010-A	A Better System for Wetland Inventory Data Stewardship	\$ 291,000	MN DNR	Kloiber, Steve	-\$250K -\$250K -\$250K -Full Funding -Not necessary. Reasonable cost and not so expensive like others. -Committed to ongoing maintenance and data -Validation "check" -Good Project	<b>6.33</b>	10	10	9	9	8	7	7	7	7	6	5	5	5	0	0	15	0			
11	016-A	Spruce Grouse: Sentinels for Boreal Forest Connectivity	\$ 361,630	U of MN The Raptor Center	Ponder, Julia	-\$350K -\$350K -\$250K -Concerned they may go against logging industry	<b>6.20</b>	10	10	10	9	8	7	7	7	5	5	5	5	2	2	1	15	0			

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Line #	LCCMR ID #	Project Title	\$ Request	Organization	Project Manager	Member Notes	Average Score - Members that Scored	All Member Scores - High to Low																	# Members that Scored	# Members with Conflict	Staff Notes	
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
12	002-A	Minnesota Geological Survey Geologic Atlases for Water Resource Management	\$ 4,121,625	U of MN - MN Geological Survey	Lusardi, Barbara	- \$3M - \$2M - \$3.5M - \$3M - \$3M - Extremely expensive. These maps become outdated and then they have to do this again. DNR use to fund this, but now LCCMR has become the main repeated source with no real end in sight. - Consider additional \$'s and partners - Economic benefits? - Outstanding and needed	6.18	10	10	10	9	9	9	9	9	9	9	8	6	5	2	0	0	0	0	17	0	
13	015-A	Minnesota's Imperiled Bats - Protecting the Survivors	\$ 208,331	MN DNR	Nordquist, Gerda	- \$200K - \$200K - \$200K - \$200K - White nose syndrome needs science - Not convinced it isn't just a natural cycle	6.13	10	10	10	9	7	7	7	7	7	7	6	3	2	0	0	0	0	15	0	-DNR direct and necessary expenses	
14	008-A	Phase-II: Enhancing Understanding of the Minnesota River Ecosystem	\$ 598,241	MN DNR	Sindt, Tony	- \$400K - \$400K - \$400K - \$200K - Add invertebrates - Why not invertebrates	6.00	10	9	8	8	8	7	7	7	7	6	5	3	3	2	0	0	0	15	0	-DNR direct and necessary expenses	
15	007-A	Wild Bee Surveys in Minnesota's Forest Habitats	\$ 636,044	MN DNR	Nordquist, Gerda	- Expensive! Why don't they do this with the prior Biological Survey they Presented Doubling Up	5.41	10	10	9	7	7	6	6	6	6	6	5	4	4	4	2	0	0	17	0	-DNR direct and necessary expenses	
16	006-A	Optimizing Minnesota's Forest Products and Ecosystem Services	\$ 789,649	U of MN - Duluth	Johnson, Lucinda	- What is the urgency? - Where is industry? - \$100K	5.18	10	10	7	7	7	6	6	6	5	4	4	4	4	4	3	1	0	17	0		
17	004-A	Minnesota's Ecological Monitoring Network - Continuation	\$ 696,004	MN DNR	Texler, Hannah	- \$500K - \$500K - \$250K - Add pollinators - Expensive and question the real value - How does this relate to MBS work - How is this not DNR standard work	5.13	10	9	8	7	7	7	6	6	6	5	2	2	2	0	0	0	0	15	0	-DNR direct and necessary expenses	
18	025-A	Mapping Habitat Use and Disease of Urban Carnivores	\$ 657,159	U of MN	McCann, Nicholas	- Full Funding - Full Funding	4.94	10	10	10	10	10	10	8	5	3	2	2	2	1	1	0	0	0	17	0		
19	021-A	Grasslands, Grazing, and Greater Prairie-chickens: Testing Trade-offs	\$ 392,065	MN DNR	Roy, Charlotte	- \$300K - \$300K - \$150K	4.93	9	8	7	7	6	5	5	5	4	4	4	3	3	2	2	0	0	15	0	-DNR direct and necessary expenses	
20	027-A	Accelerated Aggregate Resource Mapping	\$ 1,380,979	MN DNR	Arends, Heather	- Building roads hardly fits mission of preserve, protect and enhance natural resource	4.06	10	10	10	10	8	6	6	3	1	1	0	0	0	0	0	0	0	16	0	-DNR proposed direct and necessary expenses	
21	012-A	Conserving Lake Trout in Minnesota	\$ 782,549	U of MN - Duluth	Reavie, Euan	- Helpful if it helps expand fishing in MN - Not convinced about the ROI	3.87	7	7	6	6	5	5	5	4	3	3	2	2	2	1	0	0	0	15	0	-Purchase of computers and storage-need add'l info	
22		<b>A. Subtotal</b>	\$ 15,768,908																									
23		<b>A. Foundational Natural Resource Data and Information</b>																										

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24	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 10 Proposals / Subtotal = \$1,770,652)</b>																										
25	032-AH	Artificial Den Boxes for Fishers	\$ 190,000	U of MN -Duluth	Moen, Ron	-Full Funding -Full Funding -\$150K -[Den boxes for Fishers] Good valued price to try and see how this can help.	7.71	10	10	10	10	10	9	9	8	8	8	8	7	7	6	5	4	2	17	0	
26	038-AH	Aquatic Habitats for Moose and Enhanced Lake Food webs	\$ 199,600	U of MN	Bump, Joseph	-Full Funding -Full Funding -\$100K -Good Price	7.67	10	10	9	9	9	9	8	8	8	7	7	6	6	6	3			15	0	-Capital equipment: Sonde \$17k
27	034-AH	Red-headed Woodpeckers: Indicators of Oak Savanna Health	\$ 171,000	U of MN	Andersen, David	-Full Funding -Full Funding -Full Funding -Is this one staff is looking into? It looks like her fellowship is at an out of state school, but located at the UMN. (staff response: correct, we are looking into this)	7.47	10	10	10	9	9	8	8	8	7	6	6	6	6	5	4			15	0	-Out of state personnel expenses- need add'l info
28	035-AH	Implementing Conservation Plans for Avian Species of Concern	\$ 124,500	Audubon Minnesota	Hall, Kristin	-Full Funding -Full Funding -\$50K -Good price	6.47	10	10	10	9	9	7	7	6	6	5	4	4	4	3	3			15	0	
29	039-AH	Foundational Ecological Information for Tribal Fire Management	\$ 182,860	U of MN	Kipfmuller, Kurt	-\$100K	4.86	8	7	7	7	6	5	5	5	4	3	3	3	3	2			14	0		
30	029-AH	Protecting Minnesota's Cold-Water Fish into the Future	\$ 168,760	USGS	Smith, Erik		4.67	9	8	8	7	6	6	4	4	4	3	3	2	2	2	2			15	0	-DNR proposed direct and necessary expenses
31	030-AH	City Bats and Country Bats - What's the difference?	\$ 200,000	U of MN	Moen, Ron	-Full Funding -\$100K -Not convinced of real value. -Complements 015A	4.67	9	8	7	6	5	5	5	5	5	5	4	3	3	0	0			15	0	
32	031-AH	Walleye Habitat Status to Guide and Prioritize Management	\$ 198,784	MN DNR	Hansen, Gretchen	-Game and fish fund? -Good Price at 198,000 we need more walleyes so good project -\$100K	4.40	10	8	8	7	6	5	4	4	4	3	2	2	2	1	0			15	0	-Conference expenses- need add'l info
33	046-AH	Improving Statewide GIS Data by Restoring the PLS	\$ 135,250	Minnesota Association of County Surveyors Grant County	Veraguth, Patrick	-What???	4.06	10	10	10	10	9	7	5	4	2	1	1	0	0	0	0	0	0	17	0	
34	028-AH	Minnesota Restoration Mapping and Pollinator Protection	\$ 199,898	Minnesota Board of Water and Soil Resources	Shaw, Dan	-\$21,000,000 from LCCMR and they haven't mapped pollinators??? -Question real value and need	3.33	9	8	7	6	6	4	4	2	2	2	0	0	0	0	0			15	0	
35		<b>AH. Subtotal</b>	\$ 1,770,652																								

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36	<b>B. Water Resources (SELECTED TO PRESENT: 21 Proposals / Subtotal = \$7,882,509)</b>																										
37	076-B	Farm-Ready Cover Crops for Protecting Water Quality	\$ 741,184	Central Lakes College	Olander, Keith	-Full Funding -\$350K?	7.18	10	10	10	10	10	9	9	8	7	7	7	6	5	5	5	3	1	17	0	
38	077-B	Setting Realistic Nitrate BMP Goals in Southeast Minnesota	\$ 444,000	U of MN	Nieber, John	-\$400K -\$400K -Good to help develop 3 crops in two years plus grazing options -Great project and necessary and practical	7.07	10	9	9	9	9	9	9	8	8	8	6	6	5	1	0			15	0	
39	052-B	Outstate Wastewater: Improving Nitrogen Removal in Treatment Ponds	\$ 402,033	U of MN	Novak, Paige	-Good purpose	7.00	10	10	9	9	8	8	8	8	7	7	7	6	4	2	2			15	0	
40	053-B	Stimulating Bacteria to Degrade Chlorinated Industrial Contaminants	\$ 252,884	U of MN	Novak, Paige	-\$250K -\$150K -Full Funding	7.00	10	10	9	9	9	9	8	7	7	7	6	5	5	2	2			15	0	
41	055-B	Protecting Minnesota Waters by Removing Contaminants from Wastewater	\$ 345,877	U of MN	Simcik, Matt	-\$300K -\$300K	6.87	9	9	8	8	7	7	7	7	7	7	7	6	5	2			15	0	-Potential Patent	
42	050-B	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	\$ 278,000	U of MN	Babcock, Laura	-\$200K -\$200K -Full Funding -Good for small towns Benefits for people/companies to change -Address source reduction	6.80	10	10	8	8	8	8	8	7	7	7	5	5	5	4	2			15	0	
43	062-B	Phytoremediation for Extracting Deicing Salt from Roadside Soils	\$ 360,231	U of MN	Hu, Bo	-Full Funding -Full Funding -Full Funding -Need to add gravel roads	6.71	10	10	10	10	10	8	8	8	8	6	6	5	5	3	3	2	2	17	0	
44	051-B	Quantifying Micro plastics in Minnesota's Inland Aquatic Ecosystems	\$ 277,419	U of MN - Duluth	Schreiner, Kathryn	-\$250K -\$250K -\$250K -Like using sentinel lakes	6.53	10	9	9	9	9	8	7	7	6	6	5	5	3	3	2			15	0	
45	064-B	Transformation of Plastic Waste into a Valued Resource	\$ 308,000	U of MN	Barney, Brett	-Full Funding -Full Funding -\$200K	6.53	10	10	9	9	8	8	8	8	6	6	6	4	3	2	1			15	0	
46	049-B	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	\$ 415,300	U of MN	Arnold, William	-\$400K -\$400K -Interesting	6.33	10	10	9	9	8	8	7	6	6	5	5	4	3	3	2			15	0	
47	097-B	Reducing Nitrate Harm in the Red River Basin	\$ 225,749	Red River Basin Commission	Goehring, Julie	-Full Funding -Could be a way to work with buffers also -All the work would be done in MN	6.27	10	9	9	8	8	7	7	6	6	6	5	5	3	3	2			15	0	-Single source contract- need add'l info
48	048-B	Neonicotinoid Insecticides: Occurrence And Influence on Algal Blooms	\$ 356,000	U of MN	Arnold, William	-\$350K -\$350K -\$350K	5.73	10	10	9	9	8	7	7	6	5	4	3	3	2	2	1			15	0	
49	054-B	Improving Drinking Water for Minnesotans through Pollution Prevention	\$ 345,778	U of MN	Hozalski, Raymond	-\$300K -\$300K -New good research -Full Funding	5.53	9	9	9	8	8	8	7	7	6	4	3	2	1	1	1			15	0	

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
50	061-B	Membranes for Removing Toxic Metals from Mining Wastewater	\$ 449,203	U of MN	Hillmyer, Marc	-\$200K -No industry match -No matching funds -Good	5.29	10	10	9	8	8	8	7	7	7	6	4	2	1	1	1	1	0	17	0	'-Potential Patent
51	072-B	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	\$ 448,905	Stearns County Soil and Water Conservation District	Fuchs, Dennis	-\$250K -\$250K -Helpful to develop more profitable crops for farms and cover crops -Should wait to see results of LCCMR kernza projects before funding	5.20	10	10	10	9	8	5	5	4	4	4	3	3	2	1	0			15	0	
52	057-B	Harnessing Minnesota's Biological Resources for Cleaner Waters	\$ 388,000	U of MN	Elias, Mikael	-\$200K -\$200K -Quite interesting with patent potential so could bring in royalties	5.07	9	8	8	7	6	6	5	5	5	5	5	4	2	1	0			15	0	'-Potential Patent
53	067-B	Eliminating Nitrate in Drain Tile Runoff	\$ 398,623	U of MN	Gulliver, John	-Polluters should pay too	5.00	8	8	7	7	7	7	6	6	5	4	3	3	2	1	1			15	0	-Conference expenses- need add'l info
54	058-B	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	\$ 297,000	Minnesota Pollution Control Agency	Kyser, Scott	-\$250K -\$250K -\$200K	4.93	10	8	8	7	6	6	5	5	5	5	4	3	2	0	0			15	0	
55	085-B	The Future of Groundwater Supply	\$ 280,000	Science Museum of Minnesota St. Croix Watershed Research Station	Almendinger, James	-\$150-\$200K	4.80	8	8	7	7	6	5	5	5	5	4	3	3	2	2	2			15	0	-Conference expenses- need add'l info
56	066-B	Improving Wetland and Groundwater Management Through Hydrologic Monitoring	\$ 573,661	MN DNR	Norris, Doug	-\$500K -\$500K -\$500K -Will this have a negative impact on farmers that irrigate?	4.47	7	7	7	7	7	6	6	6	5	4	4	1	0	0	0			15	0	-DNR direct and necessary expenses -Possible capital expenditures: \$375k (\$7.5k/station x 50 stations)
57	082-B	Evaluating Long-Term Success of Wetland Hydrology Restoration	\$ 294,662	Board of Water and Soil Resources Wetlands Section	Smith, Tim	-Full Funding -Should have done this before -This is the function of BWSR and should be standard work	3.47	8	8	6	6	5	4	4	4	4	3	0	0	0	0	0			15	0	
58		<b>B. Subtotal</b>	\$ 7,882,509																								

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59	<b>B. Water Resources</b>																											
60	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 6 Proposals / Subtotal = \$909,430)</b>																											
61	106-BH	Citizen-Aided Carp Management: Overcoming Roadblocks to Lake Restoration	\$ 106,151	Carver County Water Management Organization (CCWMO) Public Services Division	Dickhart, Andrew	-Full Funding -Full Funding -Market the carp -Affordable, good project	<b>7.88</b>	10	10	10	10	9	9	9	9	9	8	8	8	7	7	7	3	1	17	0	-Sole source contract- need add'l info -Addresses gaps in realistic N and P reductions possible from carp removal as a water quality improvement tool. -Not a fit for MAISRC.	
62	101-BH	Evaluating Locally-Sourced Sanding Materials for Road Salt Reduction	\$ 162,445	U of MN - Duluth	Chun, Chanlan	-Full Funding -Full funding -\$150K	<b>7.29</b>	10	10	9	8	8	8	8	8	8	8	7	7	6	6	6	5	2	17	0		
63	102-BH	Minnesota Spring Inventory Final Phase	\$ 71,000	MN DNR	Putzier, Paul	-Full Funding -Full Funding -Full Funding -Complete! -Low cost is encouraging -Good project to get set up	<b>7.20</b>	10	10	10	9	9	9	7	7	7	6	6	6	6	5	1			15	0	-DNR direct and necessary expenses	
64	103-BH	Using Local Iron Byproducts to Remove Surface-water Phosphorus	\$ 195,216	U of MN - Duluth	Cai, Meijun	-Stockpiling all these years! No industry match -Very interesting project	<b>5.76</b>	10	10	10	10	9	9	8	7	6	6	4	2	2	2	2	2	1	0	17	0	
65	100-BH	Repurposing Unprofitable Cropland: Water and Wildlife's Silver Bullet?	\$ 199,618	Science Museum of Minnesota, St. Croix Watershed Research Station	Ulrich, Jason	-Full Funding -\$200K -Farmer cooperation? -Need farmer cooperation?	<b>5.33</b>	8	8	8	8	7	7	6	6	6	5	4	3	2	2	0			15	0		
66	116-BH	Spring Biological Nitrate Removal to Protect Drinking Water	\$ 175,000	City of Fairmont	Nemmers, Troy	-\$100K -City match? -Seems good, But does this open the door to much to drinking water projects? -Good project	<b>5.24</b>	10	10	10	9	9	8	8	7	5	4	3	2	2	1	1	0	0	17	0	-Capital expenditures: \$58k bioreactor	
67		<b>BH. Subtotal</b>	\$ 909,430																									

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68	<b>C. Environmental Education (SELECTED TO PRESENT: 6 Proposals / Subtotal = \$3,486,094)</b>																										
69	122-C	Camp Sunrise: Respect Self, Others and the Environment	\$ 237,000	YouthCARE MN	Jones, Isiah	-Full Funding -Full Funding -Full Funding -\$200K -Reasonable price to give such an outdoor experience	7.67	10	10	10	10	9	9	8	8	7	7	7	6	5	5	4	15	0			
70	124-C	Connecting Over 11,000 Students to the Boundary Waters	\$ 783,135	Friends of the Boundary Waters Wilderness	Knopf, Chris	-Full Funding -\$700K -\$700K -\$700K	5.07	10	10	10	10	8	8	8	6	2	2	1	1	0	0	0	15	0	- Includes scholarships for 600 students		
71	120-C	GreenStep Schools: Statewide Program, 20 School District Pilot	\$ 992,959	U of MN	Mercer-Taylor, Beth	-\$500K -\$500K -\$500K -\$400K -Reduce to 15 schools -Reduce to accommodate 10 schools -Seems more expensive than it needs to be fund at half level -\$18K funding from MPCA	4.87	9	9	8	8	7	7	6	6	5	4	1	1	1	1	0	15	0			
72	123-C	Increasing Diversity in Environmental Careers: Fellowships, Internships, Mentorships	\$ 250,000	MN DNR	Legato, Denise	-Full Funding -Full Funding -Important but need to see current progress with former LCCMR funds	4.67	8	8	8	8	7	6	6	6	6	3	2	1	1	0	0	15	0			
73	119-C	Water Lab: Engaging Minnesotans in Water Quality Challenges	\$ 830,000	Science Museum of Minnesota	Hamilton, Patrick	-\$400K -\$400K -\$400K -\$350K	3.67	8	8	6	6	6	5	5	5	3	1	1	1	0	0	0	15	0	-Possible capital expenditure: \$180k including for computers and monitors -Need better breakdown of equip and supplies budget items		
74	121-C	Environmental Learning by Bicycle for Ages 8-80	\$ 393,000	Bicycle Alliance of Minnesota	Grilley, Dorian	-\$200K -\$200K	3.21	7	6	6	6	6	5	3	2	2	1	1	0	0	0	14	0	-Food expenses for participants-- need add'l info -Includes liability insurance			
75		<b>C. Subtotal</b>	\$ 3,486,094																								
76	<b>C. Environmental Education</b>																										
77	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$199,500)</b>																										
78	143-CH	Mississippi National River & Recreation Area Forest Restoration	\$ 199,500	Mississippi Park Connection	Hammes, Mary	-Full Funding -Full Funding -Full Funding -Full Funding	6.86	10	9	9	8	8	8	8	7	7	7	6	4	3	2	14	0				
79		<b>CH. Subtotal</b>	\$ 199,500																								

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
80	<b>D. Aquatic and Terrestrial Invasive Species (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$6,072,871)</b>																										
81	160-D	Building Knowledge and Capacity to Solve AIS Problems	\$ 5,000,000	U of MN - MAISRC	Phelps, Nicholas	-\$3M -\$4M -\$3M -Not sure we're seeing enough problems solved may be spinning our wheels on something that is unsolvable, fund half	7.33	10	10	9	9	9	9	9	9	8	7	7	7	6	6	3	1	15	0		
82	161-D	Elimination of Target Invasive Plant Species Transition Phase	\$ 772,871	Minnesota Department of Agriculture	Chandler, Monika	-\$450K -\$400K -Community engagement -Staff change agents -Supplant?	6.41	10	10	9	9	8	7	7	7	7	7	6	5	5	4	4	3	1	17	0	- Not research/not UMN/not a fit for MITPPC
83	162-D	Invasive Carp Acoustic Deterrence Field Trial at Lock19	\$ 300,000	MN DNR	Frohnauer, Nick	-? Out of state spending -Iowa? -Full Funding -Is this better or as good as a physical barrier? -Could left over LSOHC funding be used for this?	4.53	10	10	8	7	6	5	5	5	4	4	2	1	1	0	0	15	0	-Capital expenditures \$300k -Installation would be in Keokuk, Iowa -Fit with MAISRC not clear.		
84		<b>D. Subtotal</b>	\$ 6,072,871																								
85	<b>D. Aquatic and Terrestrial Invasive Species</b>																										
86	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$479,707)</b>																										
87	173-DH	Oak Wilt Suppression at Northern Edge	\$ 100,000	Morrison Soil & Water Conservation District	McLennan, Helen	\$100K -Full Funding -Concerns on \$ for private land -Market with logger for sale of forest products -cannot become the main source for this eradication long term	7.13	10	10	9	9	9	9	8	8	8	7	7	7	5	5	2	1	16	1	-Includes treatment of trees on private lands -"Legal notices-" need add'l info -Need correct budget form -Not research/not UMN/not a fit for MITPPC	
88	169-DH	Suppressing Reed Canary Grass with Native Plants	\$ 191,000	U of MN	Montgomery, Rebecca	-Full Funding -\$150K	6.07	9	8	7	7	7	7	7	6	6	6	5	4	4	1	15	0	-Focus is largely on forest restoration and is continuation of previously funded LCCMR project. Fit with MITPPC is not clear.			
89	168-DH	Brown Marmorated Stink Bug Phase 2: Monitoring & Biocontrol	\$ 188,707	Minnesota Department of Agriculture	Ambourn, Angie	-Full Funding -\$75K -Ag Match?	5.63	10	10	9	8	8	7	7	6	5	4	4	3	3	3	2	1	16	0	-Not UMN/not a fit for MITPPC	
90		<b>DH. Subtotal</b>	\$ 479,707																								

Environment and Natural Resources Trust Fund 2019 Proposals  
**CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW**

Line #	LCCMR ID #	Project Title	\$ Request	Organization	Project Manager	Member Notes	Average Score - Members that Scored	All Member Scores - High to Low																	# Members that Scored	# Members with Conflict	Staff Notes
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
91	<b>E. Air Quality, Climate Change, and Renewable Energy (SELECTED TO PRESENT: 4 Proposals / Subtotal = \$3,140,299)</b>																										
92	186-E	White Earth Nation Community Solar for Community Action	\$ 572,702	Rural Renewable Energy Alliance	ODay, Vicki	\$300K -Full Funding -Full Funding -Any MN DEED funding? -Only concern is if this is a good precedent to set funding maybe should be RDF or private funding -May be a good project but should wait to see how other LCCMR project goes for few years)	6.53	10	9	9	8	8	7	7	7	6	6	6	6	4	3	2	15	0	-Capital expenditures: \$327k solar array -Includes guarded access \$40K -Includes indirect expenses-- ineligible, needs to be removed -Potential single source contract needs additional information		
93	176-E	Development of Clean Energy Storage Systems for Farms	\$ 994,224	U of MN - WCROC	Northrop, William		4.43	10	7	7	7	6	5	5	4	4	3	2	1	1	0			14	1	-Capital expenditures: \$141k energy storage systems	
94	182-E	Optimization of a Net-Zero Dairy System	\$ 876,706	U of MN - WCROC	Heins, Bradley	-No funding for activity 2 - presenter failed to provide explanation of the activity. -Lighting should be covered by savings -Good use of waste energy in dairy operations	4.36	10	10	9	7	5	4	4	4	3	3	1	1	0	0			14	1	-Capital expenditures: \$95k energy meters, lighting systems, data loggers	
95	174-E	When the Dust Settles: Pristine Lakes are Changing	\$ 696,667	Science Museum of Minnesota St. Croix Watershed Research Station	Edlund, Mark	-\$200K	3.93	8	7	7	6	6	5	4	4	4	3	2	2	1	0	0	15	0	-Capital expenditures: \$20k sonde, \$25k deposition samplers (5@ \$5k)		
96		<b>E. Subtotal</b>	\$ 3,140,299																								
97	<b>E. Air Quality, Climate Change, and Renewable Energy</b>																										
98	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 2 Proposals / Subtotal = \$385,013)</b>																										
99	190-EH	Sustainable Solar Energy from Agricultural Plant Byproducts	\$ 185,018	U of MN - Morris	Pappenfus, Ted	-Full Funding -Full Funding -Full Funding -Biodegradable plastics can solve micro plastic and landfill issues	7.50	10	10	10	9	8	8	8	8	7	7	7	6	5	2			14	0	-Capital expenditures: \$21k ball mills (2 at \$10,590 ea) -Potential Patent	
100	196-EH	Modeling Energy and Environmental Roadmaps for Minnesota Communities	\$ 199,995	City of Morris Administration	Hill, Blaine	-St. Cloud and other cities are already doing this -A good way to show more models to use district heating/energy ideas, and incinerate garbage after recycling	5.69	10	9	9	8	7	7	6	5	5	3	3	2	0			13	1	-Purchase of computer- need add'l info		
101		<b>EH. Subtotal</b>	\$ 385,013																								

Environment and Natural Resources Trust Fund 2019 Proposals  
**CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW**

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
102	<b>F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (SELECTED TO PRESENT: 11 Proposals / Subtotal = \$10,251,858)</b>																										
103	225-F	Sauk River Dam Removal and Rock Rapids Replacement	\$ 2,768,000	City of Melrose	Brethorst, Michael	-\$1M -\$1.25M -Partial funding -Restoration only -They are 3rd on DNR list -If funded direct \$ to DNR dam safety account	6.36	10	10	10	9	8	7	6	6	5	5	5	4	2	2	14	0				
104	199-F	Eastern Larch Beetle is Decimating Minnesota's Tamarack Forests	\$ 382,000	U of MN	Aukema, Brian	-\$350K -\$350K -\$300K	6.35	10	10	9	8	8	8	8	7	7	6	6	6	6	5	2	1	1	17	0	-Cap equipment \$20k rearing chambers - Native species/ not a fit for MITPPC
105	202-F	Saving Endangered Pollinators through Data-Driven Prairie Restoration	\$ 977,813	Minnesota Zoo	Runquist, Erik	-\$500K -\$500K -\$350K -Expensive -Impacts wind development projects?	6.06	10	10	9	8	8	7	7	7	6	6	6	5	5	3	0	0	16	0	-Includes DNR direct and necessary expenses	
106	210-F	Forest Regeneration: Right Seed in the Right Place?	\$ 476,336	U of MN - Duluth	Etterson, Julie	-\$400k -\$400K -\$350K	5.86	8	8	8	7	7	7	7	7	6	3	3	3	3	1			14	0		
107	213-F	Promoting and Restoring Oak Savanna Using Silvopasture	\$ 1,270,910	U of MN	Zamora, Diomy	-\$750K -\$750K -\$500K -Scalable? -High cost perhaps reduce scope	5.57	10	10	9	8	7	6	6	6	5	4	3	3	1	0			14	0		
108	200-F	Evaluating Forestry Tools for Conserving Minnesota's Tamarack Forest	\$ 864,436	MN DNR	Reinikainen, Mike	-Concerns on \$ for private land -\$500K -\$500K	5.50	10	10	8	8	7	7	7	7	6	4	3	2	2	0	0	16	0	-DNR direct and necessary expenses -Includes restoration on private (and public) lands - Native species/ not a fit for MITPPC		
109	221-F	Elm Creek Stream Restoration Phase IV Final	\$ 858,650	City of Champlin Engineering	Tuominen, Todd	-Partial funding -\$430K -\$450K -\$400K	5.41	10	10	9	9	7	6	6	5	5	5	5	5	4	3	2	1	0	17	0	
110	212-F	Conserving Minnesota's Best Prairie Habitats and Rarest Species	\$ 1,261,500	The Nature Conservancy	Feeken, Neal	-Partial funding -\$1M -\$1M -\$500K	5.21	10	9	8	8	7	7	6	6	6	3	2	1	0	0			14	0		
111	205-F	Restoring the Upper Mississippi River at Lake Pepin	\$ 525,000	Lake Pepin Legacy Alliance	Main, Rylee	-Like project but question spending funds out of state -Full Funding if allowed -Great match but why clean up Lake Pepin when pollution will still come from the north -This is a Wisconsin project without fixes to sediment issues upstream this is a waste of \$	4.57	10	9	9	8	7	7	5	3	3	2	1	0	0	0			14	0	-Includes work on land/water that is in Wisconsin	
112	207-F	Comparison of Burning and Haying for Prairie Restoration	\$ 338,111	Carleton College	Hernandez, Daniel		4.29	10	7	5	5	5	5	4	4	4	3	3	3	2	0			14	0		

Environment and Natural Resources Trust Fund 2019 Proposals  
 CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
113	204-F	Ensuring High-Quality Restoration Outcomes in Minnesota	\$ 529,102	U of MN	Galatowitsch, Susan	-What is the value added	3.64	9	7	6	4	4	4	4	3	3	2	2	1	1	1					14	0	
114		<b>F. Subtotal</b>	\$ 10,251,858																									
115	<b>F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat</b>																											
116	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$522,607)</b>																											
117	232-FH	Conservation and Monitoring of Minnesota's Rare Arctic Plants	\$ 135,541	U of MN - Duluth	Zlonis, Katharine	-Full funding -Full Funding -Full Funding	6.57	10	10	10	10	9	8	8	7	6	4	4	3	2	1					14	0	
118	237-FH	Combating Woody Encroachment with Grazing after Mechanical Clearing	\$ 199,704	Minnesota State University - Moorhead	Merkord, Christopher	-LCCMR has already done this	4.57	10	9	8	8	7	5	5	4	3	3	1	1	0	0					14	0	
119	231-FH	Supporting Pollinators and Prairie Restorations with Beneficial Fungi	\$ 187,362	U of MN	Jordan, Nicholas	-Full Funding -Full Funding -Past project already doing this	4.43	9	9	8	8	6	6	5	3	2	2	2	2	0	0					14	0	-Includes out of state personnel expenses- need add'l info
120		<b>FH. Subtotal</b>	\$ 522,607																									

Environment and Natural Resources Trust Fund 2019 Proposals  
**CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW**

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17					
121	<b>G. Land Acquisition for Habitat and Recreation (SELECTED TO PRESENT: 18 Proposals / Subtotal = \$49,816,230)</b>																												
122	248-G	Grants for Local Parks, Trails and Natural Areas	\$ 3,000,000	MN DNR	Mularie, Audrey	-\$2M -\$2M -\$1.5M -\$1.75M -Do not fund Direct and Necessary	<b>8.75</b>	10	10	10	10	9	9	9	9	9	9	8	8	8	8	7	7	16	0	-DNR direct and necessary expenses			
123	266-G	Vergas Long Lake Trail	\$ 291,111	City of Vergas	Lammers, Julie	-\$250K -\$250K -\$250K -Best match of any of the trail proposals	<b>8.18</b>	10	10	10	10	10	10	9	8	8	8	8	8	8	8	8	5	1	17	0			
124	251-G	Minnesota State Trails Development	\$ 8,750,000	MN DNR	Skaar, Kent	-\$2.5M \$3M -\$2.25 -Gitchi Gami is important -Activities 2, 5, and 6 have matching funds -Capture available match -Too Much Money should be funded from Legacy and bonding should pay for part of this -Bridges in disrepair and of concern -Large request -Fed match required	<b>7.76</b>	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	1	0	17	0	-DNR direct and necessary expenses	
125	256-G	Britton Peak to Lutsen Mountains Mountain Bike Trail	\$ 350,000	Superior Cycling Association	Kennedy, Tim	-\$300K -Good value for 5.1 miles	<b>7.65</b>	10	10	10	10	10	8	8	8	8	8	8	8	8	8	7	7	6	5	1	17	0	- Need budget details
126	249-G	Minnesota State Parks and State Trails In-Holdings	\$ 5,000,000	MN DNR	Christie, Jennifer	-Fund Activities 1-3 at \$1.55M -Fund Activities 1-3 at \$1.55M -Fund Activities 1-3 at \$1.55M	<b>7.41</b>	10	10	10	10	10	9	9	9	9	9	9	8	8	7	6	3	0	0	17	0	- Does not include/not subject to direct and necessary	
127	252-G	National Loon Center: State Bird Survival and Protection	\$ 4,000,000	National Loon Center Foundation	Heggerston, Leah	-Partial funding -\$2M -\$2M -\$1.75M -Better match? -Fund activity 1 -Quite expensive, maybe do a quarter to half -& acres owned by Feds to be transferred? -No open solicitation -Net zero energy -Set backs?	<b>7.18</b>	10	10	10	10	10	10	9	9	9	9	8	7	7	6	6	5	5	1	0	17	0	-\$4m capital expenditures
128	247-G	DNR Scientific and Natural Areas	\$ 5,758,000	MN DNR	Schulte, Judy	-\$2M -\$3.3M -\$3.5M -\$3.3M Activity 3 -Prefer the \$3.3 million for fee title	<b>6.86</b>	10	10	10	10	10	9	9	9	7	7	5	5	5	5	0	0			14	0	-DNR direct and necessary expenses - Includes cons. easement stewardship expenses	
129	254-G	Mesabi Trail Extensions	\$ 5,150,000	St. Louis and Lake Counties Regional Railroad Authority	Manzoline, Robert	-Partial funding -\$1M -\$2.25M -Activity 1 at \$700K -Good to finish somewhat expensive, maybe half funding	<b>6.59</b>	10	10	10	10	10	9	9	9	8	8	6	6	6	5	5	1	0	0	17	0		



Environment and Natural Resources Trust Fund 2019 Proposals  
 CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW

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								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
141	<b>G. Land Acquisition for Habitat and Recreation</b>																											
142	<b>H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$191,000)</b>																											
143	272-GH	Making the SHT's Big Bad Five Beautiful Again	\$ 191,000	Superior Hiking Trail Association	Caneff, Denny	-Full funding -Best value! -Full Funding -Full Funding -\$200K	8.12	10	10	10	10	10	10	10	10	10	9	9	8	8	8	8	5	2	1	17	0	
144		<b>GH. Subtotal</b>	\$ 191,000																									
145	<b>I. Administration (3 Proposal / Subtotal = \$135,000)</b>																											
146	273-I	Contract Agreement Reimbursement	\$ 135,000	MN DNR	Sherman-Hoehn, Katherine		na																			na	na	
147		LCC Legacy Website Administration	\$ 2,700	LCC	Hubinger, Greg		na																			na	na	
148		LCCMR Administration	\$ -	LCCMR	Nash, Becca		na																			na	na	
149		<b>I. Subtotal</b>	\$ 137,700																									
1450	<b>J. Other (3 Proposals / Subtotal = \$3,399,000)</b>																											
151	274-J	Unlocking the Science of Minnesota's Moose Decline	\$ 199,000	Minnesota Zoo	Mattson, Nicole	-Full funding -Full Funding -Full Funding -Like the price under 200k	7.41	10	10	9	9	8	8	8	8	8	8	7	7	7	7	5	5	5	5	17	0	
152	275-J	County Geologic Atlases - Part B	\$ 2,400,000	MN DNR	Putzier, Paul	-\$2M -\$2M -Full Funding -Full Funding -Full Funding -Good needed project -Investigate county funding -Should be put together with 002A?	6.40	10	10	10	9	9	9	9	9	8	5	4	2	2	0	0			15	0		
153		Nongame Wildlife Program Acceleration	\$ 800,000	MN DNR	Henderson, Carrol																							
154		<b>J. Subtotal</b>	\$ 3,399,000																									
155		<b>Total</b>	\$ 104,413,378																									