

Members 2020 LCCMR Proposal Scores: High to Low by Category

Sorted first by median score of members that scored and then by proposal ID#

Line #	LCCMR ID #	Project Title	Project Manager and Organization	\$ Request	Member Notes	Staff Notes	Median Score	Mean Score	Distribution of Member Scores - Low to High																	# Members that Scored	# Members with Conflict
									1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
4	A. Foundational Natural Resource Data and Information (24 Proposals / Subtotal = \$18,985,833)																										
5	001-A	Geologic Atlases for Water Resource Management	Barbara Lusardi, U of MN - Minnesota Geological Survey	\$ 4,121,625	-\$3,500,000		9	7.6	0	1	3	6	6	8	9	9	9	9	10	10	10	10	10	10	10	17	
6	007-A	County Groundwater Atlas	Paul Putzier, MN DNR	\$ 2,250,000		-DNR direct and necessary expenses	9	7.4	0	3	4	4	4	6	8	8	9	10	10	10	10	10	10	10	10	17	
7	016-A	Expanding Restoration and Promoting Awareness of Native Mussels	Seth Stapleton, Minnesota Zoological Society	\$ 489,270	-\$250,000	-Conferences in years 1 - 4 -- need add'l info	7	6.7	0	1	4	5	5	6	6	7	7	7	8	9	9	10	10	10	10	17	
8	018-A	Bee Minnesota - Protect our Native Bumblebees	Declan Schroeder, U of MN	\$ 693,000		-No mention of pesticide interaction -Does not look at interrelationship between pathogens and other stressors	7	5.6	0	0	0	0	5	5	5	6	7	7	7	7	9	9	9	9	10	17	
9	019-A	Bobcat and Fisher Habitat Use and Interactions	Michael Joyce, U of MN	\$ 440,719		-24 GPS collars - \$84k	7	5.2	0	0	0	0	1	1	2	5	7	7	8	9	9	10	10	10	10	17	
10	040-A	Freshwater Sponges and AIS: Engaging Citizen Scientists	Venugopal Mukku, U of MN	\$ 460,000		-Crookston adds statewide	7	5.9	0	0	0	1	5	5	7	7	7	7	8	8	8	9	9	9	10	17	
11	002-A	Expanding the Minnesota Ecological Monitoring Network	Hannah Texler, MN DNR	\$ 1,587,134		-Need to include more areas in the prairie and the metro	6	5.7	0	0	0	3	4	4	5	5	6	8	8	8	9	9	9	9	10	17	
12	008-A	Foundational Hydrology Data for Wetland Protection and Restoration	Doug Norris, MN DNR	\$ 461,499	-\$200,000	-DNR direct and necessary expenses	6	5.5	0	0	0	3	5	5	5	6	6	6	7	7	7	8	8	10	10	17	
13	014-A	Voyageurs Wolf Project – Phase II	Joseph Bump, U of MN	\$ 608,320	-\$550,000	-Capital Expenditures: 1 snowmobile and trailer \$15,000 -Capital Expenditures: 1 Digital Camera and long-range lens \$20,000 -Capital Expenditure: Possible vehicle purchase if less than mileage reimbursement \$26,100 .	6	5.9	0	0	0	3	5	5	5	6	6	6	8	8	9	9	10	10	10	17	
14	017-A	Improving Pollinator Conservation by Revealing Habitat Needs	Colleen Satyshur, U of MN	\$ 615,000		-Single source contract- need add'l info	6	5.1	0	0	0	0	2	4	4	6	6	7	7	7	7	8	9	10	10	17	
15	025-A	Healthy Prairies III: Restoring MN prairie plant diversity	Ruth Shaw, U of MN	\$ 1,128,000	-\$950,000	-Potential single source contract- need add'l info	5	4.7	0	0	0	0	1	2	3	3	7	8	8	8	8	8	9	10		16	JW

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16	037-A	Foundational Research on Fungi and Protecting Minnesota Trees	Robert Blanchette, U of MN	\$ 362,196	-Would regenerating trees be a better option?		5	4.4	0	0	0	0	1	1	2	3	5	5	6	8	8	8	9	9	10	17		
17	004-A	Minnesota; How much Water? How is it Changing?	John Nieber, U of MN	\$ 529,139		-Potential purchase of data- \$30k	4	4.3	0	0	0	2	3	3	3	4	4	4	5	5	6	7	8	9	10	17		
18	005-A	Optimizing Land Cover Data for Water Resource Analysis	Matt Drewitz, MN Board of Water and Soil Resources	\$ 370,000	-Isn't this already done? -Outcomes for natural resources are minimal at best		4	3.8	0	0	0	1	1	1	2	4	4	4	4	4	5	7	8	10	10	17		
19	010-A	Real-Time Measurements of Nitrate Pollution in Surface Water	Joel Groten, U.S. Geological Survey	\$ 631,800	-Need a standard, impact on wildlife	-Capital expenditure: \$200,750 for 11 nitrate sensors	4	4.6	0	0	1	1	2	3	3	4	4	5	6	7	7	7	8	10	10	17		
20	022-A	Enhancing Bird and Insect Recovery in Oak Savannas	Francesca Cuthbert, U of MN	\$ 238,000	-Will produce a lot of info with smaller investment		4	4.8	0	0	1	2	2	2	2	3	4	6	8	8	8	9	9	9	9	17		
21	026-A	Estimating Fish Production in Stressed Minnesota Lakes	Richard Kiesling, U.S. Geological Survey	\$ 416,500			4	4.2	0	2	2	3	4	4	4	4	4	4	4	5	5	5	5	6	10	17		
22	031-A	Morrison County Performance Drainage and Hydrology Management Phase II	Shannon Wettstein, Morrison SWCD	\$ 213,300	-Did LCCMR fund Phase I? -No natural resource outcome -\$100,000		4	4.8	0	0	2	2	2	3	4	4	4	5	6	6	9	9	10	10		16	BF	
23	034-A	Winter Dynamics of Vulnerable Trout Streams: Central Minnesota	Leonard Ferrington, U of MN	\$ 767,060		-Capital expenditures: Two remote fish passage data collection arrays (\$13,104) -Participant incentives (\$1,900)- need add'l info	4	4.1	0	0	0	2	2	2	3	3	4	5	6	6	7	7	7	8	8	17		
24	003-A	Win-Win Forestry: Maximizing Economic and Ecological Benefits	Alexis Grinde, U of MN - Duluth NRRI	\$ 532,733	-Should be funded by DNR forestry since economics is a large outcome -NRRI just got \$3 million for a similar project		3	3.1	0	0	0	0	0	1	2	2	3	3	4	5	5	5	7	8	8	17		
25	021-A	Complete Sonar Data Mapping on Three Minnesota Rivers	Nancy Duncan, National Park Service	\$ 525,945			3	3.2	0	0	0	0	1	1	3	3	3	3	4	4	6	6	7	7	7	17		
26	038-A	Taxonomic Survey of Earthworm Species in Minnesota	Richard Koch, Bemidji State University	\$ 233,501	-Could they partner or coordinate with MIPTTC?	-Indirect costs 8%- prohibited and needs to be removed -Out of state travel (airfare) - needs add'l info	3	4.4	0	1	2	3	3	3	3	3	3	3	4	4	5	8	10	10	10	17		
27	024-A	Impacts of Conservation Grazing on Greater Prairie-chickens	Charlotte Roy, MN DNR	\$ 560,044		-DNR direct and necessary expenses	2	2.9	0	0	0	0	1	1	1	1	2	3	3	3	4	4	7	9	10	17		
28	028-A	Habitat Friendly Solar Impacts: Environmental and Economic Guidance	David Mulla, U of MN	\$ 751,048	-Not activity 3		2	3.4	0	0	1	1	1	1	2	2	2	4	5	5	6	6	6	8	8	17		

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30	A. Foundational Natural Resource Data and Information																										
31	H. Proposals seeking \$200,000 or less in funding (9 Proposals / Subtotal = \$1,731,000)																										
32	049-AH	Tools for Supporting Healthy Ecosystems and Pollinators	Jessica Petersen, MN DNR	\$ 198,397		-DNR direct and necessary expenses	9	7.6	0	4	4	4	7	7	8	8	9	9	10	10	10	10	10	10	17		
33	047-AH	Do Beavers Buffer Against Droughts and Floods?	Steve Windels, Voyageurs National Park	\$ 168,400		-Computer software, licensing-- need add'l info -Office supplies: ineligible; needs to be removed	7	6.2	0	0	1	3	4	4	6	7	7	8	8	8	9	10	10	10	10	17	
34	048-AH	Enhancing Bat Recovery by Optimizing Artificial Roost Structures	Ed Quinn, MN DNR	\$ 190,271		-DNR direct and necessary expenses	7	6.2	0	1	1	3	5	5	7	7	7	8	8	8	8	8	10	10	10	17	
35	056-AH	Conserving Black Terns and Forsters Terns in Minnesota	Annie Bracey, U of MN - Duluth NRRRI	\$ 198,640			6	5.3	0	0	0	2	2	3	3	6	6	7	7	8	8	9	9	10	10	17	
36	051-AH	Modern eDNA Technology for Better Game Fish Census	Michael Sadowsky, U of MN	\$ 200,000			5	5.2	0	0	2	3	3	3	4	4	5	6	6	7	8	9	9	9	10	17	
37	058-AH	How to Save the Cisco-Trout Lakes	John Downing, U of MN -Duluth- Sea Grant	\$ 185,438		-Capital Expenditure: \$14,725 multi-parameter Sonde	5	5.3	0	0	1	3	4	4	4	4	5	5	7	7	8	9	9	10	10	17	
38	062-AH	Engagement and Monitoring for the Insect Apocalypse	Jessica Petersen, MN DNR	\$ 191,824		-DNR direct and necessary expenses	5	5.4	0	0	0	1	2	3	4	4	5	7	8	8	9	10	10	10	10	17	
39	064-AH	Environmental Factors Influencing Nutritional Content of Wild Rice	Emily Onello, U of MN	\$ 198,092			4	4.6	0	0	0	1	1	2	3	3	4	4	7	8	8	9	9	10	10	17	
40	066-AH	Understanding Environmental Factors that Impact Minnesota Tick Populations	Jesse Berman, U of MN	\$ 199,938	-Omitted impact from wildlife		3	4.8	0	1	2	2	2	2	2	3	3	5	6	7	9	9	9	10	10	17	

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42	B. Water Resources (19 Proposals / Subtotal = \$11,081,192)																											
43	070-B	Unprecedented Change Threatens Minnesota's Pristine Lakes	Mark Edlund, Science Museum of Minnesota	\$ 849,392		-Capital expenditure- water quality sonde \$20,000	8	6.8	1	3	4	4	5	5	7	7	8	8	8	8	8	10	10	10	10	17		
44	080-B	Managing Highly Saline Waste from Municipal Water Treatment	Natasha Wright, U of MN	\$ 255,000		-Patent potential	8	6.9	2	2	5	5	5	7	7	7	8	8	8	8	8	8	8	10	10	10	17	
45	098-B	Developing Strategies to Manage PFAS in Land-Applied Biosolids	Summer Streets, Minnesota Pollution Control Agency	\$ 1,403,556	-Assumes continues land application of PFAS	-Large single source contract to out of state researcher-- need add'l info	8	6.4	0	0	2	2	3	5	7	8	8	8	8	9	9	9	10	10	10	17		
46	083-B	Technology for Energy-Generating Onsite Industrial Wastewater Treatment	Paige Novak, U of MN	\$ 474,939			7	6.0	0	0	2	4	4	5	6	6	7	7	7	7	8	9	10	10	10	17		
47	087-B	Microplastics: Transporters of Contaminants in Minnesota Waters	Lee Penn, U of MN	\$ 448,630	-Combine with 71-b [line 55]	-Staff confirmed cost savings if funded with 71-B (line 55) request amount could be \$358,933	6	4.9	0	0	0	0	1	2	2	4	6	7	7	8	8	8	10	10	10	17		
48	075-B	Understanding and Managing Persistent Chloride Pollution in Freshwaters	Jacques Finlay, U of MN	\$ 299,000	-Prevention is key -\$150,000		5	4.0	0	0	0	1	1	3	3	4	5	5	5	6	6	6	7	8	8	17		
49	076-B	Reducing Chloride in Minnesota's Water from Water Softening	Sara Heger, U of MN	\$ 362,699	-Reaction from industry?	-ETS-water softener replacement/rebate program 50 homes \$50,000 -Capital expenditures: enclosed trailer \$8,000	5	5.1	0	0	1	2	2	4	5	5	5	7	7	7	7	7	8	9	10	17		
50	078-B	Bacterial Starvation for Improved Toxic Contaminant Treatment	Paige Novak, U of MN	\$ 235,854			5	5.0	0	0	1	1	3	4	4	5	5	6	6	7	8	8	8	9	10	17		
51	082-B	Is Glyphosate causing harmful Algal Blooms?	James Cotner, U of MN	\$ 427,000	-What is the status of earlier Harmful Algal Bloom projects? -Does this expand on those projects?	-Single source contract-Barbara Cade-Menum Ag and Agri-food, Canada \$6,000-- need add'l info -Capital expenditures: Incubator \$15,000 -Travel expenses-conferences: need add'l info	5	5.1	0	0	0	1	1	2	4	5	5	6	7	8	8	9	10	10	10	17		
52	104-B	Quantifying A New Urban Precipitation/Water Reality	Joe Magner, U of MN	\$ 1,377,893		-Cellular modem for communications - need add'l info -Two laptops - needs add'l info	5	5.1	0	0	0	0	0	1	5	5	5	8	8	8	9	9	9	10	10	17		
53	110-B	Increased Sample Capacity for Analysis of Pesticides	Heather Johnson, Minnesota Department of Agriculture	\$ 736,079	-Conflict with 116P	-Capital expenditure-direct inject instrument-\$499,470	5	4.8	0	0	0	0	0	1	2	4	5	5	7	8	9	10	10	10	10	17		

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54	114-	Innovative Solution for Protecting Minnesota from PFAS contamination	Bill Keegan, Dem-Con	\$ 750,000	-Conflict with 116P -This appears to be technology development at a private level. If it proceeds, LCCMR should require an IP position. -Financial statement from bank says it "provides this company with a moderate eight-figure multi year credit facility"	-Capital expenditure-LeachBuster \$650,000 -Builds technology to remove PFAS in a private landfill	5	4.8	0	0	0	0	0	0	0	1	2	5	8	8	9	9	10	10	10	10	17	
55	071-B	Microplastics: Occurrence, Toxins, and Detection with Drones	Ardeshir Ebtehaj, U of MN	\$ 450,000	-Maybe combine this and 87-B [line 47] into one project? -Overlap with 87b?	-Staff confirmed cost savings if funded with 87- request amount could be \$\$356,069 (line 47) -Capital Expenditure: \$22,000 Spectroradiometric camera for drone measurements	4	4.5	0	0	0	0	2	3	3	3	4	5	5	7	8	8	9	10	10	17		
56	073-B	Preventing Harmful Algal Blooms through Improved Stormwater Detention	John Gulliver, U of MN	\$ 619,031	-What is the status of earlier Harmful Algal Bloom projects? -Does this expand on those projects? -Need to know impact on wildlife	-Potential single source contract- need add'l info	4	3.6	0	0	1	2	2	2	3	4	4	4	4	5	5	5	6	7	8	17		
57	085-B	Our Future Drinking Water: Nitrate, Tile, and Climate	James Almendinger, Science Museum of Minnesota	\$ 330,000		-Conference-need add'l info	4	5.2	0	0	0	1	2	3	4	4	4	7	8	9	9	9	9	10	10	17		
58	086-B	Groundwater Microbiology Phase 2: Private Wells	Raymond Hozalski, U of MN	\$ 499,196	-Dept. of Health should do this -Ag and Health Departments need to be involved		4	4.2	0	0	0	0	2	2	3	4	4	5	6	7	7	8	8	8	8	17		
59	069-B	Assessing the Value of Green Infrastructure within Minnesota's Water Infrastructure Funding Shortfall	Terin Mayer, U of MN	\$ 384,923	-Much of this is done by the Public Facilities Authority-any new study should be in collaboration with them	-Proposer is a grad student	3	3.4	0	0	0	0	2	2	3	3	3	4	4	5	5	5	5	7	10	17		
60	074-B	Trace Organic Contaminants in Groundwater from Stormwater Infiltration	Sarah Elliott, U.S. Geological Survey	\$ 910,000		-Administrative assistant, IT and database assistant: need to state this is for actual work performed on the project	3	3.3	0	0	0	2	2	2	3	3	3	4	4	4	5	5	6	6	7	17		
61	108-B	Vermillion River Surface Water and Groundwater Nitrate Impacts	Valerie Grover, Dakota County	\$ 268,000			2	3.4	0	0	0	0	1	1	2	2	2	5	5	5	5	6	6	7	10	17		

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63		B. Water Resources																									
64		H. Proposals seeking \$200,000 or less in funding (2 Proposals / Subtotal = \$360,697)																									
65	116-BH	Expanding Protection of Minnesota Water through Industrial Conservation	Laura Babcock, U of MN	\$ 178,430	-Any corporate support? -this is common sense and should be done by the private sector		6	5.3	0	2	3	3	3	4	4	4	6	6	6	6	7	8	8	10	10	17	
66	117-BH	Minnesota Sentinel Springs, Understanding Groundwater Recharge and Chemistry	John Barry, MN DNR	\$ 182,267		- 3 single source contracts - needs add'l info - DNR Direct and Necessary expenses	5	4.2	0	0	0	2	2	3	4	4	5	5	5	5	6	7	7	7	9	17	

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68	C. Environmental Education (8 Proposals / Subtotal = \$4,659,057)																										
69	122-C	Statewide Environmental Education via Public Television Outdoor Series	Cindy Dorn, Pioneer Public Television	\$ 300,000	-What is status of earlier series? -What was viewership?		9	7.5	0	1	4	6	6	7	8	9	9	9	9	9	10	10	10	10	10	17	
70	124-C	TeachScience: Schools as STEM living laboratories	Kristen Poppleton, Climate Generation: A Will Steger Legacy	\$ 368,505		-Single source contracts-need add'l info -Workshop meals for participants- need add'l info -Honorariums for speakers- need add'l info	7	5.3	0	0	0	0	0	4	5	6	7	7	8	8	8	9	9	9	10	17	
71	125-C	Mentoring the Next Generation of Conservation Professionals	Deborah Loon, Minnesota Valley National Wildlife Refuge Trust, Inc.	\$ 755,544	-General question for youth based activities - Does LCCMR require background checks for all funded staff that works with youth? -Partial fund		7	5.9	0	0	0	3	5	5	5	5	7	7	8	9	9	9	9	10	10	17	
72	127-C	Jay C. Hormel Nature Center Supplemental Teaching Staff	Luke Reese, City of Austin	\$ 252,898	-No relation to Mike Reese. -Partial fund		7	6.2	0	0	2	5	5	5	5	5	7	8	8	8	9	9	9	10	10	17	
73	129-C	450 Underserved, Diverse Youth Gain Environmental Education	Beth Becker, YMCA of the Greater Twin Cities	\$ 428,250	-General question for youth based activities - Does LCCMR require background checks for all funded staff that works with youth? -Limit \$ for YMCA O/H -Use \$ for scholarships		7	5.5	0	0	0	0	0	5	6	7	7	8	8	8	9	9	9	9	9	17	
74	123-C	Minnesota Freshwater Quest: Environmental Education on State Waterways	Julie Edmiston, Wilderness Inquiry	\$ 1,432,110	-General question for youth based activities - Does LCCMR require background checks for all funded staff that works with youth?		5	5.1	0	0	0	2	3	3	5	5	5	7	7	8	8	8	8	8	9	17	
75	134-C	Restoring Land, Reviving Heritage: Conservation Through Indigenous Culture	Katie Bloome, Belwin Conservancy	\$ 606,885			5	4.7	0	0	0	0	0	0	1	4	5	6	8	8	9	9	10	10	10	17	
76	128-C	UMD Boreal Observatory at Chik-Wauk on the Gunflint	Joel Halvorson, U of MN - Duluth	\$ 514,865		-Capital expenditure: \$16,000 panoramic display screen -Capital expenditure: \$12,000 projector with fisheye lens -Capital expenditure: \$6,000 full dome video camera	4	3.9	0	0	0	0	0	1	2	2	4	4	5	5	6	9	9	10	10	17	

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78	C. Environmental Education																										
79	H. Proposals seeking \$200,000 or less in funding (4 Proposal / Subtotal = \$689,758)																										
80	137-CH	YES! Students Take on Water Quality Challenge Phase-II	Shelli-Kae Foster, Prairie Woods Environmental Learning Center	\$ 199,700		-Substitute teacher and mileage--need add'l info	8	8.0	5	5	6	7	7	7	8	8	8	9	9	9	9	9	10	10	10	17	
81	139-CH	Driving Conservation Behavior for Mussels and Water Quality	Emily Kalnicky, Minnesota Zoological Society	\$ 191,580			8	6.8	1	1	3	5	5	5	6	7	8	8	8	9	9	10	10	10	10	17	
82	138-CH	Engaging Minnesotans with Phenology: Radio, Podcasts, Citizen Science	Maggie Montgomery, Northern Community Radio, Inc.	\$ 198,478		-Single source contracts-need add'l information	6	6.1	0	0	2	3	3	4	5	6	6	7	9	9	10	10	10	10	10	17	
83	145-CH	River Watch on the Minnesota River	Ted Suss, Friends of the Minnesota Valley	\$ 100,000	-Many local folks or school do this now without state \$		5	5.2	0	0	1	2	3	4	5	5	5	5	6	6	7	9	10	10	10	17	

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85	D. Aquatic and Terrestrial Invasive Species (9 Proposals / Subtotal = \$17,531,896)																										
86	155-D	Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) Phase 5	Robert Venette, U of MN - MITPPC	\$ 7,000,000	-Needs to be scalable -\$5,000,000		9	8.4	4	5	5	6	8	8	9	9	9	10	10	10	10	10	10	10	17		
87	157-D	White Nose Bat Syndrome Biological Control: Phase 3	Christine Salomon, U of MN	\$ 444,636			8	7.4	0	0	6	7	7	7	7	8	9	9	9	10	10	10	10	10	17		
88	159-D	EAB and Black Ash: Maintaining Forests and Benefits	Robert Slesak, U of MN	\$ 774,000			8	7.4	0	3	5	5	6	6	7	8	8	8	9	10	10	10	10	10	17		
89	156-D	Protect Community Forests by Managing Ash for EAB	Valerie McClannahan, MN DNR	\$ 5,929,174	-Scalable -\$3,000,000 -Not Ready		7	6.1	0	1	1	4	4	5	6	7	7	7	8	9	9	10	10	10	16	DM	
90	158-D	Applying New Tools and Techniques against Invasive Carp	Brian Nerbonne, MN DNR	\$ 578,000		- Capital Equipment: \$30,000 Attractant Station - DNR Direct and Necessary	7	7.1	2	4	5	6	6	6	6	7	7	7	8	8	9	9	10	10	10	17	
91	160-D	Tactical Invasive Plant Management Plan Development and Implementation	Monika Chandler, Minnesota Department of Agriculture	\$ 658,137	-Needs to be funded at the Dept. of Ag; it is a basic government function	7/8/19- wants to reduce budget -Staff confirmed new budget of \$441,237 (this is adjusted on the allocation spreadsheet staff are using to record member allocation amounts)	5	4.7	0	0	1	1	1	2	3	5	5	5	6	7	7	8	9	10	10	17	
92	162-D	Ticks! A Rising Threat in Minnesota	Jonathan Oliver, U of MN	\$ 300,000	-Needs to be evaluated by the invasive species center		5	5.2	0	0	2	2	3	4	4	5	5	5	6	6	8	8	10	10	10	17	
93	161-D	Enhancing Habitat and Diversity in Cattail-Dominated Shorelines	Amy Schrank, U of MN	\$ 582,994			4	3.7	0	0	0	1	3	3	3	4	4	4	4	4	5	5	6	7	10	17	
94	164-D	Stop Starry Invasion - Community Invasive Species Containment	Jeff Forester, Minnesota Lakes and Rivers Advocates	\$ 1,264,955	Is MAISRC doing research on Starry Stonewort? -Should be general fund	-Capital Expenditure: \$728,000 waterless boat cleaning stations	3	4.6	0	0	0	0	0	1	2	3	3	6	7	8	9	9	10	10	10	17	
96	D. Aquatic and Terrestrial Invasive Species																										
97	H. Proposals seeking \$200,000 or less in funding (3 Proposals / Subtotal = \$508,095)																										
98	167-DH	How Effective and Protective are AIS Removal Methods?	Valerie Brady, U of MN - Duluth NRRI	\$ 110,699			6	5.6	0	1	1	2	2	3	3	5	6	7	7	9	9	10	10	10	10	17	
99	168-DH	Invasive Rock Snot Threatens North Shore Streams	Mark Edlund, Science Museum of Minnesota	\$ 197,896			6	6.1	0	0	1	3	5	5	6	6	6	7	8	8	9	10	10	10	10	17	
100	169-DH	Rainy Lake Non-native Hybridized Cattail Removal	Eric Olson, Koochiching SWCD	\$ 199,500	-Conflict with RFP		4	4.3	0	0	0	0	0	2	2	3	4	5	5	7	8	8	9	10	10	17	

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									1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
102	E. Air Quality, Climate Change, and Renewable Energy (4 Proposals / Subtotal = \$6,891,749)																											
103	173-E	Storing Renewable Energy in Flow-Battery for Grid Use	Bryan Herrmann, U of MN - Morris	\$ 3,271,229	-What is the value of the electricity generated each year? Who gets the revenue? LCCMR? -Activity 1 and 3 only -I am not concerned about the electric revenue, we do need to develop means to store electricity. -Maybe gain revenue from patent potential -Should be done with private \$ - not state \$	-Contract for installation of battery - need add'l info on selection -Contract for battery operations and maintenance- \$150k (\$50k x 3 years) -Single source contract- needs add'l info -Capital Expenditures: \$300,000 for 10 inverters -Capital Expenditures: \$50,000 Site Controller -Capital Expenditures: \$1,250,000 50 kW solar array -Capital Expenditures: \$250,000 battery purchase	5.5	5.6	0	0	0	2	3	4	5	5	6	8	8	9	10	10	10	10	10	10	16	MR
104	176-E	Produce Marketable Liquid Fuels from Plastic Wastes	Paul Chen, U of MN	\$ 383,000			4	4.4	0	0	0	2	2	2	2	3	4	5	5	6	7	7	9	10	10	17		
105	192-E	Phase 2: Integrated Small-Scale Ammonia Synthesis	Alon McCormick, U of MN	\$ 2,108,520		-Co-Investigator @ 25% FTE- need add'l info	3	3.8	0	0	0	0	1	2	2	3	3	3	4	4	9	9	10	10		16	MR	
106	194-E	Minnesota Shrimp Production Using Clean Energy	Robert Gardner, U of MN	\$ 1,129,000	-Should be private sector doing this work	-Potential single source contracts (3): all need add'l info -Capital Expenditure: \$195,500 Modified 40 ft shipping container -Capital Expenditure: \$30,000 10kW Solar PV system -Capital Expenditure: \$15,000 Battery pack and control system -Capital Expenditure: \$16,000 Solar thermal system -Capital Expenditure: \$12,000 Water filtration and circulation system -Capital Expenditure: \$26,000 Data acquisition and control system -Postage and advertising for Midwest Farm Energy Conference - prohibited, will need to be removed -Revenue generation: Reinvest or return to ENRTF per 116P.10?	1	2.4	0	0	0	0	0	0	0	0	1	1	1	2	4	4	8	8	10		16	MR

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									1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
108	E. Air Quality, Climate Change, and Renewable Energy																											
109	H. Proposals seeking \$200,000 or less in funding (5 Proposals / Subtotal = \$849,258)																											
110	198-EH	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	Simo Sarkanen, U of MN	\$ 193,967	-Economic project		7	5.4	0	0	0	1	3	3	4	5	7	7	8	8	8	9	9	10	10	17		
111	199-EH	Diverting Unsold Food from Landfills, Reducing Greenhouse Gases	April Rog, Second Harvest Heartland	\$ 130,000			7	6.1	0	1	1	3	3	3	7	7	7	8	8	8	8	10	10	10	10	17		
112	196-EH	The Beltrami County Climate Vulnerability Assessment	Joel Anastasio, Headwaters Regional Development Commission	\$ 180,000		-ETS-food-needs add'l info	4	4.1	0	0	0	0	1	2	3	4	4	4	6	6	7	7	8	8	9	17		
113	201-EH	Identifying Agricultural Energy Consumption and Impacts in Minnesota	Joel Tallaksen, U of MN	\$ 146,791		-Printing-needs details	3.5	3.9	0	0	1	1	1	2	2	3	4	5	6	6	6	6	10	10	16	MR		
114	205-EH	Rural Distributed Renewable Energy and Back-Up Power	Jill Thibert, Northwest Renewable Energy LLC	\$ 198,500	-Conflict with 116P -This appears to be technology development at a private level. If it proceeds, LCCMR should require an IP position. -May be a good idea but LCCMR # should not be spent here	-Capital Expenditures-SolarBank System components - PV Panels, Racking, Batteries, Inverter/Chargers, Electrical-\$128,000 -Permits and inspections-\$5,000 -Revenue generation: Reinvest or return to ENRTF per 116P.10?	0	2.2	0	0	0	0	0	0	0	0	0	0	1	1	2	2	5	6	10	10	17	

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116	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (9 Proposals / Subtotal = \$4,500,140)																										
117	216-F	Implementing Hemp Crop Rotation to Improve Water Quality	Keith Olander, Central Lakes College	\$ 740,000	-Only activity 1		8	7.5	0	3	4	7	7	8	8	8	8	9	10	10	10	10	10	15	BF, MR		
118	207-F	Pollinator Central: Habitat improvement with citizen monitoring	Wiley Buck, Great River Greening	\$ 981,000	-Scalable -Partial funding	-Travel expenses out of state-need add'l info	7	5.9	0	0	0	0	6	7	7	7	7	7	7	8	8	8	9	10	10	17	
119	209-F	Pollinator & Beneficial Insect Strategic Habitat Program	Dan Shaw, MN Board of Water and Soil Resources	\$ 780,500	-Should have been doing this for years, why just now?	-Initiative includes potential for restorations on private lands secured with 10-15 year CRP contracts (i.e. not permanent)	7	6.6	1	1	3	3	3	5	7	7	7	7	8	10	10	10	10	10	10	17	
120	215-F	Lignin-coated Fertilizers for Phosphate Control	Eric Singsaas, U of MN - Duluth NRRRI	\$ 279,382			6	5.4	0	0	0	2	3	4	4	6	6	7	8	8	9	9	10	10	16	MR	
121	218-F	Developing Cover Crop Systems for Sugarbeet Production	Anna Cates, U of MN	\$ 300,546			6	5.2	0	0	1	1	1	2	3	5	6	7	7	8	9	9	10	10	17		
122	219-F	Native Eastern Larch Beetle is Decimating Minnesota's Tamarack Forests	Brian Aukema, U of MN	\$ 398,180	-How much research needs to go on without getting answers	-Capital Expenditures-2 rearing chambers \$25k	6	6.3	0	2	3	3	4	5	5	6	6	7	8	8	10	10	10	10	17		
123	224-F	Habitat Associations of Mississippi Bottomland Forest Marsh Birds	Luis Ramirez, National Audubon Society	\$ 295,336			6	4.8	0	0	1	1	2	2	3	5	6	6	7	7	8	8	8	8	10	17	
124	214-F	Marsh Bird Conservation Planning in St.Louis River Estuary	Nathaniel Miller, National Audubon Society	\$ 284,068			5	4.4	0	0	0	0	2	2	2	4	5	5	6	7	8	8	8	9	9	17	
125	208-F	Prairie to the People: Habitat Restoration and Education	Dane Huinker, Wildlife Forever	\$ 441,128	-Do smaller number of sites - \$250,000 plenty	-Travel expenses - needs to be per Commissioner's Policy	4	4.5	0	0	0	0	1	1	3	3	4	5	6	7	8	9	9	10	10	17	

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									1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
127	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat																										
128	H. Proposals seeking \$200,000 or less in funding (5 Proposals / Subtotal = \$797,532)																										
129	244-FH	Peatland Restoration in the Lost River State Forest	Torin McCormack, Roseau River Watershed District	\$ 135,646			7	6.6	1	3	4	5	5	6	6	6	7	7	7	8	8	9	10	10	10	17	
130	245-FH	Prescribed Burning for Brushland-Dependent Species-Phase II	Rebecca Montgomery, U of MN	\$ 147,428		-Lodging at Cloquet Forestry Center for 2 people	7	5.9	0	1	2	3	3	3	4	5	7	8	8	9	9	9	10	10	10	17	
131	247-FH	Pollinator Habitat Creation Along the Urban Mississippi River	Betsy Daub, Friends of the Mississippi River	\$ 129,297	-Partial fund and use to do Inver Grove Heights parcel		7	6.8	0	0	3	5	6	6	6	7	7	8	8	9	10	10	10	10	10	17	
132	255-FH	Increase Golden Shiner Production to Protect Aquatic Communities	John Downing, U of MN - Duluth - Sea Grant	\$ 188,161			7	6.1	0	0	1	3	4	4	5	5	7	8	8	9	10	10	10	10	10	17	
133	259-FH	Restoring Turf to Native Pollinator Gardens Across Metro	Holly Jenkins, Wilderness in the City	\$ 197,000			6	4.9	0	0	0	2	2	5	5	5	6	6	6	7	7	7	7	9	10	17	

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									1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
135	G. Land Acquisition for Habitat and Recreation (21 Proposals / Subtotal = \$58,494,950)																												
136	263-G	Minnesota State Parks and State Trails In-Holdings	Jennifer Christie, MN DNR	\$ 5,000,000	-\$3,500,000		9	7.2	0	0	4	5	7	7	8	9	9	9	9	9	9	9	9	9	9	10	10	17	
137	264-G	Grants for Local Parks, Trails, and Natural Areas	Audrey Mularie, MN DNR	\$ 3,000,000	-\$2,000,000	-DNR Direct and Necessary expenses -Estimated Capital Construction costs: \$ 1,950,000	9	7.8	0	3	5	7	7	7	8	9	9	9	9	9	10	10	10	10	10	10	10	17	
138	265-G	Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction	Adam Arvidson, Minneapolis Park and Recreation Board	\$ 2,538,000	-Scalable -\$2,000,000		8	5.6	0	0	0	1	2	3	3	5	8	8	9	9	9	9	9	9	10	10	17		
139	271-G	Superior Hiking Trail As Environmental Showcase	Denny Caneff, Superior Hiking Trail Association	\$ 450,000	-\$425,000	-Capital expenditures: snowmobile \$8,000	8	7.8	4	5	5	5	8	8	8	8	8	8	9	9	9	9	9	9	9	10	10	17	
140	276-G	Perham to Pelican Rapids Regional Trail (West Segment)	Charles Grotte, Otter Tail County	\$ 2,836,000	-Should require matching funds -Scalable -Decent match -Pay county staff? -\$1,000,000	-Capital Expenses: \$2,325,970 construction costs associated with 6.83 miles of trail development -County staff salary: supplement/supplant?	8	6.8	0	1	3	3	4	5	7	7	8	9	9	10	10	10	10	10	10	10	10	17	
141	261-G	DNR Scientific and Natural Areas	Judy Schulte, MN DNR	\$ 5,875,000	-\$3,500,000	-DNR direct and necessary expenses	7	5.7	0	0	0	0	1	2	5	6	7	8	9	9	10	10	10	10	10	10	10	17	
142	262-G	Private Native Prairie Conservation through Native Prairie Bank	Judy Schulte, MN DNR	\$ 2,280,000	-\$2,000,000	-DNR direct and necessary expenses -Stewardship funds-per M.S. 84.96	7	6.6	0	1	1	2	3	6	7	7	7	9	10	10	10	10	10	10	10	10	10	17	
143	270-G	Elm Creek Restoration Phase IV	Todd Tuominen, City of Champlin	\$ 650,200	-Should require matching funds -\$500,000	-Capital Expenditure: \$104,700 engineering and permitting -Capital Expenditure: \$246,200 construction services -Capital Expenditure: \$299,300 construction materials -7/8/19- request should be changed to \$500,200 -Staff confirmed new budget of \$400,200 (this is adjusted on the allocation spreadsheet staff are using to record member allocation amounts)	7	6.1	0	2	4	4	5	5	6	6	7	7	7	7	8	8	8	10	10	17			

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144	283-G	Ranier Safe Harbor/Transient Dock on Rainy Lake	Sherril Gautreaux, City of Ranier	\$ 762,650	-Should require matching funds	-Capital expenditures: \$762,650 for construction of a dock for boats 26' or longer	7	5.6	0	0	0	0	0	0	2	6	6	7	8	8	9	9	10	10	10	10	17	
145	266-G	Minnesota Hunter Walking Trails, Public Land Recreational Access	Gary Drotts, Ruffed Grouse Society	\$ 545,000	-\$300,000		6	5.9	0	0	2	4	4	5	5	5	6	7	7	8	9	9	10	10	10	17		
146	274-G	Acquire Riverfront Land at Upper St. Anthony Falls	Kjersti Monson, Friends of the Lock & Dam	\$ 3,000,000	-Scalable -Acquisition only with match -Our congressional delegation should get title transferred without spending state \$	-Capital Expenditures: \$1,250,000 Site capital improvements - add'l details needed on specific improvements	6	5.2	0	0	0	0	0	2	5	5	6	7	8	8	9	9	10	10	10	17		
147	275-G	Whiskey Creek & Mississippi River Water Quality/Habitat/Recreation Project	Tim Terrill, Mississippi Headwaters Board	\$ 1,470,500	-Not salary but other parts of the project -\$500,000 acquisition	-Director salary- needs to state this is for actual work conducted on the project	6	6.0	0	1	3	4	5	5	5	6	6	7	7	8	8	8	9	10	10	17		
148	277-G	Crow Wing County Community Natural Area Acquisition	Ryan Simonson, Crow Wing County	\$ 405,000	-Needs match -\$300,000 County match needed	-County lands are open to ATVs unless posted closed -Revenue generation: Reinvest or return to ENRTF per 116P.10?	6	6.1	0	1	2	3	4	4	5	5	6	8	8	9	9	9	10	10	10	17		
149	279-G	Rocori Trail Phase 3	Pete Weber, ROCORI Trail Construction Board	\$ 1,260,000	-Should require matching funds -Scalable -\$378,000 per mile! -\$1,000,000	-Capital expenditures: \$891,730 for construction of 2.3 miles of trail	6	5.6	0	1	1	1	3	3	5	5	6	6	8	8	8	8	10	10	10	10	17	
150	284-G	Crane Lake Voyageurs National Park Campground & Visitors Center	Jim Janssen, Town of Crane Lake	\$ 3,600,000	-Should require matching funds -Scalable -All capital-how many centers needed?	-Capital expenditures: \$3,600,000 to design and construct a new campground and to designed and conduct site prep for a Visitors Center -Revenue generation: Reinvest or return to ENRTF per 116P.10?	6	5.3	0	0	0	0	0	1	4	6	6	8	8	8	9	10	10	10	10	17		
151	267-G	Turning Back to Rivers: Environmental and Recreational Protection	DJ Forbes, The Trust for Public Land	\$ 3,803,600	-Scalable -LGU support? -just one parcel? -Partial fund -\$1,750,000		5	4.8	0	0	0	0	2	2	2	3	5	7	7	8	8	8	9	10	10	17		
152	268-G	Metropolitan Regional Parks System Land Acquisition Phase 6	Emmett Mullin, Metropolitan Council	\$ 2,500,000	-\$1,250,000 -Scalable		5	5.2	0	0	1	2	3	4	5	5	5	5	6	7	8	8	10	10	10	17		

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153	269-G	Minnesota State Trails Development	Kent Skaar, MN DNR	\$ 10,000,000	-Bonding not ENTRF -Scalable	-DNR Direct and Necessary expenses - Capital expenditures: \$ 2,297,503 State Trail Bridge Renewal -Capital expenditures: \$1,655,523 Blazing Star Trail development -Capital Expenditure: \$1,407,815 Paul Bunyan State Trail -Capital Expenditure: \$1,481,669 Heartland Trail -Capital Expenditure: \$ 695,835 Cuyuna Lakes State Trail -Capital Expenditure: \$1,827,086 Glacial Lakes State Trail	5	4.6	0	0	0	0	1	2	2	4	5	5	5	7	8	9	10	10	10	17	
154	273-G	Red Wing Riverfront Trail Connection Project	Ron Rosenthal, City of Red Wing	\$ 682,000	-All capital -Should require matching funds	-Capital expenditures: \$682,000 to construct a pedestrian-bicycle bridge and trail connection	5	5.0	0	0	0	1	2	2	2	4	5	6	8	8	9	9	9	10	10	17	
155	281-G	Mesabi Trail; New Trail and Additional Funding	Robert Manzoline, St. Louis and Lake Counties Regional Railroad Authority	\$ 6,337,000	-Partial funding	-Includes spending ENRTF \$ on wetland mitigation -"Has been reviewed by LCCMR"-- need add'l info -Requesting funds for segments already funded(?)	5	5.0	0	0	0	0	0	0	1	5	5	7	8	9	10	10	10	10	10	17	
156	278-G	Purchasing 316 acres for Conservation and Agriculture Education	Amber Stenson, The Food Group	\$ 1,500,000	-Confusing presentation	-Funding to purchase land for a private, non-profit to operate -Revenue: Reinvest or return to ENRTF per 116P.10?	2	2.5	0	0	0	0	0	0	0	0	2	2	3	3	3	6	6	7	10	17	
158	G. Land Acquisition for Habitat and Recreation																										
159	H. Proposals seeking \$200,000 or less in funding (3 Proposal / Subtotal = \$378,000)																										
160	285-GH	Chippewa Acquisition, Recreation and Education	Scott Williams, Chippewa County	\$ 160,000	-good match	-Capital expenditures: \$15,000 for construction of a fishing pier	8	7.6	0	3	5	7	7	7	8	8	8	8	9	10	10	10	10	10	10	17	
161	289-GH	Sportsmens Training and Developmental Learning Center	Ray Sogard, Minnesota Forest Zone Trappers Association	\$ 85,000		- Funding to construct facilities for a private, non profit entity on private land.	8	5.8	0	0	0	0	0	0	6	6	8	9	9	10	10	10	10	10	10	17	
162	286-GH	Construction of Pedestrian/Bicycle Bridge on LSSB/GRR	Bruce Hasbargen, Lady Slipper Scenic Byway, Inc.	\$ 133,000		- Capital expenditures: \$133,000 to construct a pedestrian-bicycle bridge and trail connection"	5	5.6	0	0	0	1	3	3	4	5	5	7	8	9	10	10	10	10	10	17	

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164	I. Other (1 Proposal / Subtotal = \$135,000)																										
165	290-	Contract Agreement Reimbursement	Katherine Sherman-Hoehn, MN DNR	\$ 135,000			NA	NA																			
167		Total		\$ 127,594,157																							