

**LCCMR MEMBER 2022 PROPOSAL COMPILED MEMBER SELECTIONS**  
(High to Low) 7/2/21

Line #	Proposal ID	Project Title	Organization	Project Manager Name	Amount Requested	Running Total	Running Number of Proposals	Staff Score	Staff Comments	Member Conflict of Interest	Compiled Member Evaluation #1 Score (score = # member selected divided by # members w/o COI multiplied by 100 and rounded to the nearest whole number)	Member Notes	LCCMR Selected for Presentation
2	Break Point: 17 out of 17 members selected												
3	2022-057	Local Parks, Trails and Natural Areas Grant Programs	MN DNR, Grants Unit	Audrey Mularie	\$4,000,000	\$4,000,000	1	86			100	Great way to address local needs	
4	Break Point: 15 out of 17 members selected												
5	2022-041	Environmental Learning Classroom with Trails	Independent School District #712, Mountain Iron Buhl Public Schools	Reggie Engebritson	\$82,000	\$4,082,000	2	80			88	Nature classrooms!	
6	2022-221	Mustinka River Fish and Wildlife Habitat Corridor Rehabilitation	Bois de Sioux Watershed District	Jamie Beyer	\$3,025,000	\$7,107,000	3	85			88	not full amount Quite the match.	
7	Break Point: 14 out of 17 members selected												
8	2022-034	Conservation Corps Veterans Service Corps Program	Conservation Corps Minnesota	Brian Miller	\$1,504,000	\$8,611,000	4	85			82	Use as a template for projects in this category, great example. Potential LLBO tribal partnership?	
9	2022-111	Minnesota State Parks and State Trails Acquisitions	MN DNR, State Parks and Trails Division	Shelby Kok	\$4,250,000	\$12,861,000	5	89			82	Inholdings are strategically valuable.	
10	2022-265	Innovative Technology for PFAS Destruction in Drinking Water	U of MN, Southern Research and Outreach Center	Shaobo Deng	\$500,000	\$13,361,000	6	87			82	If it works, this is great	
11	2022-286	Emerging PFAS Contaminant Mitigation using Hybrid Engineered Wetlands	St. Louis County	Mark St. Lawrence	\$501,000	\$13,862,000	7	75			82	the student involvement is good, but the solution would be short term	
12	Break Point: 13 out of 17 members selected												
13	2022-049	Destruct Per/Polyfluoroalkyl Substances (PFAS) in Landfill Leachates	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$200,000	\$14,062,000	8	87			76	This is the PFAS project we need.	
14	2022-067	Minnesota Invasive Terrestrial Plants and Pests Center	U of MN, MITPPC	Heather Koop	\$7,000,000	\$21,062,000	9	86			76	EDRR and forecasting are key efforts to limiting the compounding of invasive impacts.	
15	2022-226	Neonicotinoid Impacts on Minnesota Deer and Prairie Chickens	MN DNR, Fish and Wildlife Division	Michelle Carstensen	\$1,060,000	\$22,122,000	10	90			76	Work with previous Raptor Center project on neonicotinoid data The deer piece makes sense, the prairie chicken data doesn't seem ripe to support the level of investigation.	
16	2022-260	Watershed and Forest Restoration: What a Match!	Board of Water and Soil Resources	Lindberg Ekola	\$3,728,000	\$25,850,000	11	93			76	Expensive, but the diverse partnerships and integration with Tribes is great.	
17	Break Point: 12 out of 17 members selected												
18	2022-029	Increasing K-12 Student Learning to Achieve ENRTP's Goals	Osprey Wilds Environmental Learning Center	Bryan Wood	\$1,800,000	\$27,650,000	12	80			71	Good match and partnerships	
19	2022-101	Native Prairie Stewardship and Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$1,520,000	\$29,170,000	13	87			71	Prairie banking is a great idea	
20	2022-135	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$8,300,000	\$37,470,000	14	75			71	Too big, seems unsustainable.	
21	2022-160	LCCMR Stories: Sharing Minnesota's Biggest Environmental Investment	Science Museum of Minnesota	Joy Hobbs	\$604,000	\$38,074,000	15	80	-This is similar to a special project idea raised by staff with the commission previously. Staff wonder if this kind of special project warrants a different approach- options could include: 1) LCCMR contract with SMM to do the work rather than providing grant funding 2) Grant funding provided to SMM with LCCMR more involved in the project direction and decision-making 3) LCCMR solicits bids for similar work to be done.		71	agree with staff notes - maybe LCCMR contract with Fund through operations with direct involvement. Should this be connected with the Bell Museum's work? Should this be done by LCCMR staff? So many questions.	
22	2022-180	Green Solar Cells from a Minnesota Natural Resource	U of MN, College of Science and Engineering	Chris Leighton	\$756,000	\$38,830,000	16	81	*Out of state travel for conferences (1/year) - Generally ineligible; needs justification		71	remove cost of out of state travel Waste to solar cells has great potential across multiple priorities	
23	2022-224	Is the Tire Chemical 6PPDq Killing Minnesota's Fish?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Phelps	\$491,000	\$39,321,000	17	85			71	Critical work for solving the mystery (hopefully). This needs to be connected to Tribal natural resource professionals.	

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24	2022-236	YES! Students Take Action-Complete 80+Eco Projects	Prairie Woods Environmental Learning Center	Shelli-Kae Foster	\$199,000	\$39,520,000	18	86			71	Great partnerships and past success.	
25	2022-250	Increasing Diversity in Environmental Careers	MN DNR, Operational Services Division (OSD)	Mimi Daniel	\$182,000	\$39,702,000	19	85			71	What about retention? Mentoring is good, but need a career link to retain participants in the field.	
26	Break Point: 11 out of 17 members selected												
27	2022-066	Expanding Access to Wildlife Learning Bird by Bird	MN DNR, Ecological and Water Resources Division	Alison Cariveau	\$276,000	\$39,978,000	20	89			65	Each one, teach one.	
28	2022-076	Modernizing Minnesota's Digital Lake Inventory	MN DNR, Ecological and Water Resources Division	Steve Kloiber	\$787,000	\$40,765,000	21	90			65		
29	2022-088	St. Louis River Re-Connect	City of Duluth	Cliff Knettel	\$2,000,000	\$42,765,000	22	85			65	Updated design should be more climate resilient	
30	2022-099	Mitigating Cyanobacterial Blooms and Toxins using Clay-Algae Flocculation	U of MN, St. Anthony Falls Laboratory	Judy Yang	\$366,000	\$43,131,000	23	76			65		
31	2022-109	Status of Minnesota Blueberries and Relatives	U of MN, Duluth	Briana Gross	\$191,000	\$43,322,000	24	68			65	Where is the Tribal connection? This is a critical issue that links to climate resilience.	
32	2022-116	Rainy River Drivers of Lake-of-the-Woods Algal Blooms	US Geological Survey, Upper Midwest Water Science Center	Anna Baker	\$683,000	\$44,005,000	25	79			65	is there a plan to fingerprint? Not clear how determinations on source will be established.	
33	2022-146	Minnesota Green Schoolyards	The Trust for Public Land	Eric Weiss	\$1,088,000	\$45,093,000	26	80			65	The nature classroom is key, great partner diversity	
34	2022-155	Catch and Reveal: Discovering Unknown Fish Contamination Threats	U of MN, Duluth - NRRRI	Bridget Ulrich	\$276,000	\$45,369,000	27	80			65	The issues are important but doesn't seem ready for funding	
35	2022-158	SNA Habitat Restoration, Public Engagement, and Protection	MN DNR, Ecological and Water Resources Division	Molly Roske	\$3,110,000	\$48,479,000	28	95			65	Good engagement, where are the Tribal connections?	
36	2022-181	Mitigating the Effects of Visitor Use Patterns	Superior Hiking Trail Association	Lisa Luokkala	\$485,000	\$48,964,000	29	85			65	How is accessibility being addressed? We should try to keep this funding focused on trails for all.	
37	2022-218	Removing CECs from Stormwater with Biofiltration	U of MN, St. Anthony Falls Laboratory	Andy Erickson	\$646,000	\$49,610,000	30	78			65	Good plan to remove CEC.	
38	2022-247	Minnesota Biodiversity Atlas - Phase 3	U of MN, Bell Museum of Natural History	Timothy Whitfield	\$593,000	\$50,203,000	31	86			65	Would like to see more outreach to bring this work to school and library classrooms.	
39	2022-275	Beavers, Trees and Climate - Increasing Floodplain Forest Resilience	National Park Service, Mississippi National River and Recreation Area	Nancy Duncan	\$430,000	\$50,633,000	32	93	-TIS. Per RFP Requirements: not TIS research and not eligible for funding from MITPPC		65	This work should be connected to USFS NIACS, USACE Ecological Restoration in La Crescent, and the Refuge as they have done some of this.	
40	2022-279	Diversity and Access to Wildlife Related Opportunities	U of MN, College of Food, Agricultural and Natural Resource Sciences	Alexandrea Safiq	\$199,000	\$50,832,000	33	88			65	great work, but this has already been done perhaps?	
41	Break Point: 10 out of 17 members selected												
42	2022-005	Mesabi Trail: Wahlsten Road (CR 26) to Tower	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline	\$1,980,000	\$52,812,000	34	72			59	Seems a better fit for trail focused programs	
43	2022-006	Minnesota's Volunteer Rare Plant Conservation Corps	U of MN, Landscape Arboretum	David Remucal	\$859,000	\$53,671,000	35	77			59	Conservation corps is a great fit.	
44	2022-008	The Missing Link: Gull Lake Trail, Fairview Township	Fairview Township, Fairview Trail North Portion - Gull Lake Trail	Marla Yoho	\$2,362,000	\$56,033,000	36	77	-Contract to Bolton & Menck appears to be single source--Generally ineligible; needs justification -Concern: proposing to acquire land that is already public (see 116P.18 LANDS IN PUBLIC DOMAIN). However, p. 12 states "If this expense is not an acceptable expense, Fairview Township will cover the costs of the lease" (cost ~\$20k).		59	cost-effective and well-matched	

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45	2022-038	Redhead Mountain Bike Park	Minnesota Discovery Center,	Donna Johnson	\$1,977,000	\$58,010,000	37	75			59	Mountain biking may be overdeveloped, is this fueling the limited appeal bubble?	
46	2022-058	Pollinator Habitat Pilot Project at Closed Landfills	Minnesota Pollution Control Agency	Eric Pederson	\$1,375,000	\$59,385,000	38	85			59	Is there concern for uptake and pollinator impacts?	
47	2022-103	Changing Winters and Game Fish in Minnesota Lakes	U of MN, Duluth - Large Lakes Observatory	Ted Ozersky	\$267,000	\$59,652,000	39	78			59	Where is the Tribal connection? Need engagement at a minimum, but should be involved in the work. Potential Mille Lacs tribal partnership?	
48	2022-149	Offal Wildlife Watching: How Do Hunters Provision Scavengers?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph Bump	\$531,000	\$60,183,000	40	72			59	Citizen science foundational for so many other data uses	
49	2022-166	Increased Intense Rain and Flooding in Minnesota's Watersheds	Science Museum of Minnesota, St. Croix Watershed Research Station	Jason Ulrich	\$192,000	\$60,375,000	41	84			59	great integration of multiple watersheds and prioritizing effectiveness.	
50	2022-169	ESTEP (Earth Science Teacher Education Project)	Minnesota Science Teachers Association	Lee Schmitt	\$495,000	\$60,870,000	42	93			59	Would like to see pro-bono connections with MN environmental services firms to provide career track, shadowing, etc.	
51	2022-225	Native Plant Community Data in City of Duluth	Minnesota Land Trust	Virginia Breidenbach	\$198,000	\$61,068,000	43	80			59	limited impact	
52	Break Point: 9 out of 16 members selected												
53	2022-125	Connecting the Mississippi Flyway to Urban Open Space	Minneapolis Parks and Recreation Board	Adam Arvidson	\$175,000	\$61,243,000	44	85		JP	56		
54	Break Point: 9 out of 17 members selected												
55	2022-065	Hastings Lake Rebecca Park Area	City of Hastings, Parks & Recreation	Chris Jenkins	\$2,000,000	\$63,243,000	45	51			53		
56	2022-087	High Temperature Anaerobic Digestion of Sewage Sludge	U of MN, College of Science and Engineering	Timothy LaPara	\$302,000	\$63,545,000	46	77			53	Activity 2 was cut off, the work seems unnecessary	
57	2022-091	How Do Prescribed Fires affect Native Prairie Bees?	Negaunee Institute for Plant Conservation Science and Action at the Chicago Botanic Garden	Stuart Wagenius	\$421,000	\$63,966,000	47	65			53	what have we looked at on prescribed fires in recent past. Great to incorporate High School students	
58	2022-107	Engaging a Diverse Public in Environmental Stewardship	Great River Greening	Amy Kilgore	\$200,000	\$64,166,000	48	78			53	stewardship is good, but not seeing bigger connection to education long-term	
59	2022-144	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University,	John Geissler	\$2,507,000	\$66,673,000	49	76			53	Reverse bid is confusing, but cost-effectiveness is undeniable.	
60	2022-152	Water and Climate Information to Enhance Community Resilience	U of MN, College of Food, Agricultural and Natural Resource Sciences	Tracy Twine	\$564,000	\$67,237,000	50	84			53	Seems to be targeting the the wrong policy lever. The system turns on values and assumption mapping, not data understanding. Focus should be on exploring impacted community needs instead of assuming they need training on data understanding. <a href="https://climatecommunication.yale.edu/about/projects/global-warmings-six-america/">https://climatecommunication.yale.edu/about/projects/global-warmings-six-america/</a>	
61	2022-162	Bugs Below Zero: Engaging Citizens in Winter Research	U of MN, College of Food, Agricultural and Natural Resource Sciences	Rebecca Swenson	\$198,000	\$67,435,000	51	81			53	great partnerships, engaging idea but impacts may be limited.	
62	2022-172	Addressing Conflict between Wild Canids and People	U of MN, College of Food, Agricultural and Natural Resource Sciences	David Fulton	\$326,000	\$67,761,000	52	81			53	Not clear that the problem is significant	
63	2022-193	Restoration of Eastern Hemlock; Minnesota's Endangered Tree Species	U of MN, College of Food, Agricultural and Natural Resource Sciences	Andrew David	\$199,000	\$67,960,000	53	84			53	climate impact? Seems like attempting to resist climate change for a species poorly adapted for current and future conditions.	
64	2022-200	Maximizing Lowland Conifer Ecosystem Services: Phase 2	U of MN, College of Food, Agricultural and Natural Resource Sciences	Marcella Windmuller-Campione	\$500,000	\$68,460,000	54	80			53	Where are Tribes fitting into this project? At a minimum there needs to be outreach if not full incorporation.	
65	2022-214	Phytoremediation for Extracting Deicing Salt	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$507,000	\$68,967,000	55	73			53	The closed loop concept is a good plan, might be better to change the salt issues on source control due to expected leakage from the mitigation loop.	

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66	2022-215	What's Causing Declines in Black Bear Reproduction	MN DNR, Fish and Wildlife Division	Andrew Tri	\$553,000	\$69,520,000	56	60			53	Seems unnecessary given current management studies to support hunting limits.	
67	2022-217	Establishing a Center for Prion Research and Outreach	U of MN, College of Veterinary Medicine	Peter Larsen	\$4,356,000	\$73,876,000	57	72	-Travel outside Minnesota to "connect with research partners" - Generally ineligible; needs justification -Unspecified communication services & fees - Generally ineligible; needs justification		53	Too big of a commitment for a new and likely perpetual Center is ENRTF funding too many 'centers' that expect annual funding? This is a particularly interesting case based on recent news, but maybe not big enough of a challenge to require this much investment.	
68	2022-238	Expanding the Minnesota Ecological Monitoring Network	MN DNR, Ecological and Water Resources Division	Erika Rowe	\$800,000	\$74,676,000	58	82			53		
69	2022-241	North Shore Private Forestry Outreach Education and Implementation	Sugarloaf The North Shore Stewardship Association,	Molly Thompson	\$375,000	\$75,051,000	59	75			53	This seems like a better fit for the USFS Landscape Scale Restoration Program, or generally innovative for Forest Stewardship work that is already happening in the state.	
70	2022-259	Partnering for Pollinator Protection	Monarch Joint Venture,	Wendy Caldwell	\$123,000	\$75,174,000	60	75			53	Good partnerships	
71	2022-272	Salt Threatens Minnesota Water Quality and Fisheries	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$1,228,000	\$76,402,000	61	73			53	pricey, but the foodweb impacts are important	
72	Break Point: 8 out of 16 members selected												
73	2022-251	Mitigations Strategies for Agroplastic PFAS and Microplastic Contamination	U of MN, WCROC	Joel Tallaksen	\$169,000	\$76,571,000	62	74		MR	50	good project, maybe not the best fit for priorities	
74	2022-273	BioBlitzes Engaging Community in Scientific Efforts	Minneapolis Parks and Recreation Board	MaryLynn Pulscher	\$198,000	\$76,769,000	63	83		JP	50		
75	Break Point: 8 out of 17 members selected												
76	2022-061	Seed Collection of Early-Blooming Plants for Pollinators	MN DNR, Ecological and Water Resources Division	Alan Ritchie	\$200,000	\$76,969,000	64	74			47	Early season plants will bring diversity to prairie mixes.	
77	2022-062	Root River Habitat Restoration Project	Eagle Bluff Environmental Learning Center	Colleen Fohrenbacher	\$790,000	\$77,759,000	65	71			47		
78	2022-071	Using Minnesota Timber to Mitigate Landfill Methane Emissions	U of MN, Duluth - NRR	Brian Barry	\$1,235,000	\$78,994,000	66	68			47	Waste-to-energy and LFG for fuel is better than mitigation	
79	2022-081	Strategic Framework to Guide Local Water Storage Implementation	Board of Water and Soil Resources	Henry Van Offelen	\$220,000	\$79,214,000	67	83	-Classified staff - Generally ineligible; needs additional justification		47		
80	2022-167	Pollinator Plantings and the Redistribution of Soil Toxins	U of MN, College of Biological Sciences	Emilie Snell-Rood	\$610,000	\$79,824,000	68	95			47	"Safer" is not clear, is the hope to just have a dilution and distribution effect? Translocation, sequestration, and bioaccumulation/magnification not a risk?	
81	2022-249	Strengthening Watershed Stewardship through Outdoor Youth Education	Minnesota Trout Unlimited	John Lenczewski	\$298,000	\$80,122,000	69	68			47	The approach doesn't seem sustainable.	
82	Break Point: 7 out of 16 members selected												
83	2022-244	Bohemian Flats Savanna Restoration	Minneapolis Parks and Recreation Board	Adam Arvidson	\$286,000	\$80,408,000	70	76		JP	44		
84	Break Point: 7 out of 17 members selected												
85	2022-026	Teacher Field School: Stewardship through Nature-Based Education	Hamline University	Patty Born	\$500,000	\$80,908,000	71	73			41		
86	2022-027	Pierz Park and Campground Expansion Project	City of Pierz	Bob Otremba	\$200,000	\$81,108,000	72	59	-Check capacity -Contract with SEH Inc. appears to be a single source- generally prohibited; needs justification.		41	Not the best fit	
87	2022-031	Efficacy of Urban Archery Hunting to Manage Deer	Minnesota State Colleges and Universities, Bemidji State University	Jacob Haus	\$329,000	\$81,437,000	73	51			41	Assumes deer residency	

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88	2022-043	Improving Golden-Winged Warbler Conservation and Habitat Restoration	U of MN, Duluth - NRRI	Alexis Grinde	\$197,000	\$81,634,000	74	79			41	is habitat quality the driver, or is quantity more the issue?	
89	2022-095	Evaluating Locally Sourced BIOCHAR for Restoring Impaired Waterbodies	Minnesota Pollution Control Agency	Dan Breneman	\$278,000	\$81,912,000	75	78			41	Need to control for impact of recirculation in the mesocosms.	
90	2022-117	How Do Lakes Influence Minnesota's Carbon Budget?	U of MN, College of Biological Sciences	James Cotner	\$499,000	\$82,411,000	76	77			41	on the fence as this is interesting, but may not be fruitful	
91	2022-127	Silver Bay Multi-Modal Trailhead Project	City of Silver Bay	Lana Fralich	\$3,000,000	\$85,411,000	77	45	-Concern: Capital/building construction. Bonding projects require Dept of Admin review of pre-design, design, and business plan. Would LCCMR want to do this? LCCMR checking compliance with construction requirements using state funds?		41	concerning	
92	2022-140	Brookston Campground, Boat Launch and Outdoor Recreational Facility	City of Brookston,	Kaycee Melin	\$925,000	\$86,336,000	78	44	-Capacity concerns		41		
93	2022-143	Silver Lake Trail Connection	City of Virginia	Britt See-Benes	\$1,275,000	\$87,611,000	79	44	-Check capacity		41		
94	2022-145	Restoring Forests and Savannas Using Silvopasture - Phase 2	Great River Greening	Brad Gordon	\$618,000	\$88,229,000	80	74			41	Good work that should be connected to both the USDA National Agroforestry Center and the Fishers and Farmers Fish Habitat Partnership that does this work.	
95	2022-164	Leveraging Innovations in Data Analytics for Project Implementation	Minnehaha Creek Watershed District	Brian Beck	\$791,000	\$89,020,000	81	78			41	I am confused why this isn't addressed by MS4 assessments and permitting.	
96	2022-253	City of Biwabik Recreation Area	City of Biwabik	Jeff Jacobson	\$1,414,000	\$90,434,000	82	26	-Check capacity -Concern: Capital construction		41	too much construction sinks this proposal	
97	Break Point: 6 out of 16 members selected												
98	2022-291	Morris GHG Emissions Inventory and Mitigation Strategies	City of Morris	Blaine Hill	\$170,000	\$90,604,000	83	74		MR	38	not a good match	
99	Break Point: 6 out of 17 members selected												
100	2022-046	Scaling a Market-Driven Water-Quality Solution for Row-Crop Farming	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Jordan	\$835,000	\$91,439,000	84	70			35	Cover crops are a poor use of these funds with so many other funding sources available. why now?	
101	2022-047	Conservation Cooperative for Working Lands	Pheasants Forever Inc	Tanner Bruse	\$4,993,000	\$96,432,000	85	75			35	Farm bill biologists are great resources, but why is this not funded by federal programs?	
102	2022-048	Enhancing Natural Resource Conservation through Species Distribution Modeling	MN DNR, Ecological and Water Resources Division	Fred Harris	\$200,000	\$96,632,000	86	79			35	well leveraged, surprised this isn't already done.	
103	2022-056	Unsewered Area Pilot Program: NE MN Project Facilitator	Minnesota Pollution Control Agency	Brandon Montgomery	\$450,000	\$97,082,000	87	69			35	There is more to implementation than suggested, with health and social factors also determining sewer footprint.	
104	2022-089	Purple Loosestrife Biocontrol Citizen Science Program	St. Croix River Association	Katie Sickmann	\$174,000	\$97,256,000	88	68	-TIS/AIS. Per RFP requirement: not research, so not eligible for funding from MITPPC/MAISRC.		35	proven biocontrol, not clear why this can't be done without LCCMR support, as a sustainable program.	
105	2022-122	Distribution and Movements of Fishers in Southern Minnesota	U of MN, Duluth - NRRI	Michael Joyce	\$347,000	\$97,603,000	89	57			35	limited broader impacts	
106	2022-142	RDB	City of Melrose	Colleen Winter	\$1,105,000	\$98,708,000	90	68			35	Small impact, big price	
107	2022-150	Floodwood Campground Improvement Project	City of Floodwood	Corinne Suonvieri	\$1,600,000	\$100,308,000	91	40	-Check capacity		35		
108	2022-163	Land-Use and Climate Impacts on Minnesota's Whitewater River	U of MN, St. Anthony Falls Laboratory	Andrew Wickert	\$199,000	\$100,507,000	92	81			35	excellent work connecting past to present.	
109	2022-165	Ranier Safe Harbor/Transient Dock Phase 2	City of Ranier	Sherril Gautreaux	\$2,100,000	\$102,607,000	93	30	-Status of public meeting requested by LCCMR for Phase 1 (ML2019) of this project?		35	Federal government denied Boating Infrastructure Grant, lack of public input, habitat destruction and not appropriate for LCCMR. Coast Guard permit required? concerning	

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110	2022-170	Prospector ATV Trails	City of Ely	Harold Langowski	\$1,851,000	\$104,458,000	94	44			35	ATV work would require travel management plans and connection to restoration to even be considered.	
111	2022-185	Protecting Minnesota's Spruce-Fir Forests from Tree-Killing Budworm	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brian Aukema	\$189,000	\$104,647,000	95	62			35	Fire risks and resource impacts are important here, but not as urgent as other issues.	
112	2022-188	PFAS Fungal-Woodchip Filtering System	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiwei Zhang	\$189,000	\$104,836,000	96	64			35	doesn't seem like a long-term solution	
113	2022-266	Sweetening the Crop: Perennial Flax for Ecosystem Benefits	U of MN, College of Food, Agricultural and Natural Resource Sciences	Neil Anderson	\$791,000	\$105,627,000	97	62			35	Better solutions exist and other funding sources (NRCS CIP) are a better fit.	
114	2022-267	Educating and Supporting Farmers to Implement Regenerative Agriculture	Izaak Walton League of America, Minnesota Division	Dave Zentner	\$550,000	\$106,177,000	98	71	-Check capacity		35	This is a proven method, but more partners are needed. Connect with the Fishers and Farmers Fish Habitat Partnership as an opportunity.	
115	Break Point: 5 out of 17 members selected												
116	2022-018	Rare Species Habitat Restoration	River Bend Nature Center	Brittany Smith	\$223,000	\$106,400,000	99	65			29	Long term impact and sustainability is not clear.	
117	2022-022	Reaching Minnesota's recent Immigrant Community with Environmental Education	U of MN, College of Science and Engineering	Paul Capel	\$177,000	\$106,577,000	100	70			29	Question led inquiry is good. Project approach seems a little condescending.	
118	2022-059	Site Suitability for Aquifer Storage and Recovery	U of MN, St. Anthony Falls Laboratory	Peter Kang	\$394,000	\$106,971,000	101	73			29	Good partnerships	
119	2022-069	Effects of Road Mortality on Minnesota Wildlife	U of MN, Duluth - NRRI	Ron Moen	\$183,000	\$107,154,000	102	63			29	New economic study of deer collisions increase when wolves are not present Needs are questionable and average annual traffic would not sufficiently address the seasonality and concentration of traffic in specific time periods/time of day.	
120	2022-074	Pioneer Mine Site Restoration/Trezona Trail Preservation	City of Ely	Harold Langowski	\$178,000	\$107,332,000	103	44			29	consider diversifying stabilization options, e.g. live staking to support proposed work with water impact reduction. Habitat opportunities may be compatible with an integrated stabilization approach.	
121	2022-077	Biochar Soil Amendment to Improve Urban Tree Survival	U of MN, Duluth - NRRI	Eric Singsaas	\$397,000	\$107,729,000	104	60			29	interesting concept with synergistic potential, may want to use other state innovation funds or business startup funds.	
122	2022-108	Walleye or Water Clarity? Evaluating Alternative Lake Futures	U of MN, Humphrey School of Public Affairs	Ryan Noe	\$207,000	\$107,936,000	105	69			29	outcomes unclear	
123	2022-120	Biochar Implementation in Habitat Restoration: Pilot	Great River Greening	Rebecca Tucker	\$176,000	\$108,112,000	106	75			29	good outreach. This seems overly basic given existing literature on biochar.	
124	2022-128	Gateway Wildlife Management Area Pilot Project	MN DNR, Fish and Wildlife Division	Jami Markle	\$2,862,000	\$110,974,000	107	90			29	Expensive pilot. Outdoor Heritage funds? Where are the Tribal connections?	
125	2022-129	Causes and Consequences of Lake Water Quality Change	U of MN, College of Food, Agricultural and Natural Resource Sciences	Gretchen Hansen	\$397,000	\$111,371,000	108	75			29	Need clearer outcomes, not yet ripe.	
126	2022-186	Noxious Weed Grants for Local Governments / Tribal Nations	Minnesota Department of Agriculture	Mark Abrahamson	\$1,000,000	\$112,371,000	109	30	-Concern about eligibility per RFP: invasive species control -Concern about eligibility per MS 116P.03: supplant -TIS. Per RFP requirement: not research, so not eligible for funding from MITPPC		29	If 'new tools and techniques' were used for control, then it would be eligible as per 2022-281? Inconsistent with statute	
127	2022-223	Phelps Mill Wetland and Prairie Restoration	Otter Tail County	Matthew Yavarow	\$792,000	\$113,163,000	110	70			29	Lean proposal, where is the watershed district on this?	
128	Break Point: 4 out of 16 members selected												
129	2022-068	Minnesota Mammal Atlas	U of MN, Duluth - NRRI	Ron Moen	\$116,000	\$113,279,000	111	65		JP	25		
130	Break Point: 4 out of 17 members selected												

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131	2022-050	Remove Pollutants from Landfill Air Emissions	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$200,000	\$113,479,000	112	41			24	Preference for capture and utilization over mitigation	
132	2022-053	Advanced Anaerobic Digestion for Organic Waste Utilization	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$523,000	\$114,002,000	113	63			24	Similar work has been done in NW Missouri with Roeslein Alternative Energy, LLC and a landscape conservation group. <a href="http://roesleinalternativeenergy.com/renewable-natural-gas-production-begins-at-large-manure-to-energy-project-2/">http://roesleinalternativeenergy.com/renewable-natural-gas-production-begins-at-large-manure-to-energy-project-2/</a>	
133	2022-072	Merging Lidar and Satellite Imagery for Carbon Estimation	MN DNR, Forestry Division	David Wilson	\$344,000	\$114,346,000	114	73			24	on the fence as this connects with prior forest change work to support carbon estimation.	
134	2022-079	Rainfall History Recovered from Old Oak Tree Rings	U of MN, College of Liberal Arts	Daniel Griffin	\$570,000	\$114,916,000	115	73			24	Poor leverage, the so what is missing. For some reason this is appealing, though.	
135	2022-090	Reforestation Projects for Carbon Markets	U of MN, Duluth - NRRRI	Christopher Wright	\$247,000	\$115,163,000	116	67			24	not ideal, as this problem won't be solved with another app.	
136	2022-092	Reducing Greenhouse Gases through CO2 Conversion to Ethanol	U of MN, Duluth	Sam Toan	\$400,000	\$115,563,000	117	48			24		
137	2022-102	Public Portal for Algae Blooms in Lakes	Minnesota Pollution Control Agency	Pamela Anderson	\$846,000	\$116,409,000	118	75			24		
138	2022-104	Illuminate the Natural World and Inspire its Conservation	YMCA of the Greater Twin Cities	Alyson Gagner	\$492,000	\$116,901,000	119	60			24	Single-day experiences are insufficient	
139	2022-119	Mapping Construction Resources for Recreation and Transportation Infrastructure	MN DNR, Lands and Minerals Division	Heather Arends	\$776,000	\$117,677,000	120	51			24	interesting approach to sustainability	
140	2022-124	Developing a Novel Biodegradable Plastic to Replace Polyethylene	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brett Barney	\$172,000	\$117,849,000	121	73			24	Not clear what this adds beyond our existing PLA options. Would this be serving a different market need?	
141	2022-141	Enhancing Biodegradation of Emerging Contaminants via Microbial Starvation	U of MN, College of Science and Engineering	Paige Novak	\$263,000	\$118,112,000	122	70			24	No leverage?	
142	2022-182	Determining Effectiveness of Donkeys for Nonlethal Wolf Deterrence	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas McCann	\$349,000	\$118,461,000	123	61			24	This seems ripe for a business to prove as goat grazing was. Not a good grant investment.	
143	2022-187	Mapping the Ecology of Urban and Rural Canids	U of MN, College of Food, Agricultural and Natural Resource Sciences	James Forester	\$550,000	\$119,011,000	124	74	-7/2/21 UPDATE: report has been submitted and project successfully completed. -Concern: Final report that was due in June 2019 has not yet been received from project manager after multiple requests		24	need 2019 report Failure to submit report is disqualifying	
144	2022-206	Mapping Pollutant Sources across Land Use Gradients	U of MN, College of Science and Engineering	William Arnold	\$420,000	\$119,431,000	125	72			24	Then what? Education of outcome needs to be emphasized. The mass balance approach is good, not clear that all of the pollutant have as diverse sourcing as suggested.	
145	2022-219	Big Waves and Their impact on Lake Shorelines	U of MN, St. Anthony Falls Laboratory	William Herb	\$199,000	\$119,630,000	126	30			24	wave action is not a serious issue, as geometry, geomorphology, and vegetation are insufficiently addressed on shorelines as low-hanging fruit.	
146	2022-283	Dodge Nature Center Naturalist for Outreach and Inclusion	Dodge Nature Center,	Pete Cleary	\$210,000	\$119,840,000	127	55			24	One naturalist does not a program make.	
147	2022-292	Brooten Land Acquisition	Midwest Outdoors Unlimited	midwest outdoors unlimited midwest outdoors unlimited	\$950,000	\$120,790,000	128	5	-Concerns: +capacity/readiness +fiscal +purchase of habitable building +land acquisition procedures +required restoration and management plan not addressed +purchase of land/residence for private use  -2 yamaha 4 wheelers, wood splitter-trailer, boat for duck hunting: needs to be classified as Capital Expenditures (not land) with commitment to return to LCCMR if intended use changes  -Chain saws, refrigerator, freezer, etc. need to be classified as <u>tools/equipment/furniture (not land)</u> -Check capacity		24	Appears the purchase price is for the real estate including the land and existing bunkhouse building. It appears all equipment is being left as a donation.	
148	2022-293	Lake Koronis Water Quality and Restoration Action Plan	Koronis Lake Association	Jen Meagher	\$196,000	\$120,986,000	129	48			24		
149	Break Point: 3 out of 17 members selected												

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150	2022-007	Cultivating Minnesota's Next Generation of Natural Heritage Protectors	U of MN, Landscape Arboretum	David Remucal	\$480,000	\$121,466,000	130	55			18	engagement and selection details are vague	
151	2022-011	Pickwick Mill Dam Repair	Pickwick Mill, Inc.	Tony Blumentritt	\$197,000	\$121,663,000	131	75	*Possibly not eligible for Dam Safety (bonding) funds b/c it is owned by a non-profit		18	Dams are slippery slopes	
152	2022-028	Advanced Aquifer Heat Transfer Technology for Buildings	Science Museum of Minnesota	Patrick Hamilton	\$606,000	\$122,269,000	132	65	* 2 contracts that appear to be single-source -- Generally ineligible; needs justification		18	Too close to funding building infrastructure which is ineligible.	
153	2022-060	Enhancing Outdoor Education and Conservation Awareness	Paul Bunyan Arboretum	Candice Zimmermann	\$154,000	\$122,423,000	133	54			18	No construction	
154	2022-094	Comprehensive Management Plan - Big Birch Lake	Sauk River Watershed District	Sarah Boser	\$25,000	\$122,448,000	134	60			18	seems out of scale, and may be better to seek pro-bono support from environmental firms is strapped for cash.	
155	2022-098	Assessing Prevalence of Brain-Eating Amoeba in Minnesota Lakes	U of MN, College of Science and Engineering	Raymond Hozalski	\$487,000	\$122,935,000	135	68			18	low risk compared to other issues, especially as the problem relies on warm water which can be better addressed with climate and runoff work.	
156	2022-121	ML 2022 Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$210,000	\$123,145,000	136	100	-This proposal is at LCCMR's request and will automatically advance; no need to select as a top 75 proposal during Evaluation #1		18		
157	2022-136	Photosynthetic Temperature Response of Parrot Feather (Myriophyllum Aquaticum)	Minnesota State Colleges and Universities, Minnesota State University Mankato	Christopher Ruhland	\$151,000	\$123,296,000	137	48	*AIS. Per RFP requirement: research, but not a priority species for MAISRC		18	Never heard of this as a priority	
158	2022-138	Moss and Lichens of Minnesota Prairies and Meadows	U of MN, College of Biological Sciences	Daniel Stanton	\$160,000	\$123,456,000	138	68			18	Good extension of forest method to prairies. Bell partnership ought to be part of this.	
159	2022-177	Pathways to Reduced Emissions while Improving Land Use	U of MN, Institute on the Environment	James Gerber	\$597,000	\$124,053,000	139	71			18	This seems like an outsider's take on Ag emissions, and needs to be more shaped (back to problem definition) by engaging the targeted communities (See IAP2.org).	
160	2022-189	Processing Biodegradable Plastics from Cloquet Pulp Mill Lignin	U of MN, College of Food, Agricultural and Natural Resource Sciences	Simo Sarkanen	\$198,000	\$124,251,000	140	63			18	conceptually interesting, perhaps not the best fit.	
161	2022-192	Smart Purification System for Clean Drinking Water	U of MN, College of Science and Engineering	Tianhong Cui	\$400,000	\$124,651,000	141	69			18	Validation is too weak, seems like a neat idea but not sufficiently developed.	
162	2022-204	Healthy Prairies III: Restoring Minnesota's Prairie Plant Diversity	U of MN, College of Biological Sciences	Ruth Shaw	\$531,000	\$125,182,000	142	74			18	says part 3 - what were and when were part 1 & 2. Outcomes are too vague to assess	
163	2022-205	Lake of the Woods Angler Biosolids Feasibility Study	Lake of the Woods County,	Anthony Pirkl	\$195,000	\$125,377,000	143	62			18	Seems like a leave no trace problem that ought to be connected to the cost of recreation rather than general conservation funds (resort expense, user fee, or permit rider).	
164	2022-209	Winter Dynamics of Trout Streams: Southeast/Southcentral Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	Leonard Ferrington	\$497,000	\$125,874,000	144	69			18		
165	2022-212	Emergency Location Markers for Minnesota's Parks and Trails	SharedGeo	Stephen Swazee	\$198,000	\$126,072,000	145	60	*Check capacity		18	Not a great education piece, but could be useful at some point	
166	2022-233	Wave-Vegetation Interaction Research for Shoreline Protection and Environment	U of MN, St. Anthony Falls Laboratory	Lian Shen	\$300,000	\$126,372,000	146	61			18	Not clear what this adds to what we already know about shoreline geomorphology and vegetation's importance.	
167	2022-234	Monitoring Wind and Boat Waves using IoT Technology	U of MN, Duluth	Craig Hill	\$196,000	\$126,568,000	147	18			18	looks like tech chasing dollars without a significant connection to restoration	
168	2022-235	Different Causes=Different Cures for Murky Lakes	U of MN, Duluth - Sea Grant	John Downing	\$769,000	\$127,337,000	148	66			18	This is costly and poorly targeted	
169	2022-248	Wetland Restoration of UMLA's New Gateway Entry	U of MN, Landscape Arboretum	Steven Van Natta	\$174,000	\$127,511,000	149	58			18	Since it could be funded after, it ought to be funded now with internal dollars. Need not established.	
170	2022-261	Commercialization Safe, Selective and Low-cost Carp Piscicide	MJSTI Corp.	Maurice Sadowsky	\$200,000	\$127,711,000	150	40	*Check capacity *AIS. Per RFP requirement: research, but not eligible for funding from MAISRC (PI=out of state).		18	corporation???	
171	2022-285	Trace Metal Benchmarks for NE Minnesota Lakes	US Geological Survey, Upper Midwest Water Science Center	Richard Kiesling	\$176,000	\$127,887,000	151	65			18	This should be handled by other dollars, I would think this would be covered in permitting.	

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172	Break Point: 2 out of 16 members selected												
173	2022-246	Roberts Bird Sanctuary and Lyndale Gardens	Minneapolis Parks and Recreation Board	Adam Arvidson	\$995,000	\$128,882,000	152	71		JP	12		
174	Break Point: 2 out of 17 members selected												
175	2022-052	Produce Carbon Nanotube and Hydrogen from Waste Plastics	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$200,000	\$129,082,000	153	43			12	not ready	
176	2022-083	Connecting Minnesotans to Water through Informal Environmental Education	U of MN, College of Biological Sciences	Seth Thompson	\$445,000	\$129,527,000	154	63			12	innovative, would have liked more connections with libraries to reach more communities and greater diversity.	
177	2022-093	Statewide Deconstruction Education Program	Preservation Alliance of Minnesota d.b.a Rethos: Places Reimagined	Natalie Heneghan	\$186,000	\$129,713,000	155	63			12		
178	2022-113	Water, Wildlife and Weather Friendly Funds	Freshwater Society	Carrie Jennings	\$195,000	\$129,908,000	156	56			12	This looks like green-washing	
179	2022-134	Algal Granule Bioreactors for Nitrogen and Phosphorus Removal	U of MN, College of Food, Agricultural and Natural Resource Sciences	Satoshi Ishii	\$200,000	\$130,108,000	157	68			12	targeting the wrong area to solve the problem.	
180	2022-184	Microplastics from Paint Chips: Impact on Contaminant Transport	U of MN, College of Science and Engineering	Lee Penn	\$471,000	\$130,579,000	158	48			12	Too limited in scope	
181	2022-191	Solar Powered Sensor for Monitoring Pesticide in Water	U of MN, College of Science and Engineering	Tianhong Cui	\$300,000	\$130,879,000	159	52			12	Detection specificity not defined, leads me to questions the achievability or relevance of outcomes. Seems more focused on device than detection.	
182	2022-211	Climate Resilient Lawns for Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	Eric Watkins	\$479,000	\$131,358,000	160	30			12	Turf was a bad choice and not a good fit.	
183	2022-216	Shifting Savannas: Assessing Management of At-Risk Sites	Minnesota State Colleges and Universities, Minnesota State University Mankato	Matthew Kaproth	\$194,000	\$131,552,000	161	72			12	Some of this work is unnecessary and focus may need to shift to fire work.	
184	2022-231	Minnesota Renewable Energy Jobs through Technology Commercialization	U of MN, College of Science and Engineering	Uwe Kortshagen	\$332,000	\$131,884,000	162	42			12	Not clear how this achieves program goals.	
185	2022-239	Transparent Solar Panes for Agrivoltaics	U of MN, College of Science and Engineering	Vivian Ferry	\$404,000	\$132,288,000	163	49			12		
186	2022-271	Perfluorinated Pollutants and Raising Temperature Exterminate Turtles	Minnesota State Colleges and Universities, St. Cloud State University	Satomi Kohno	\$348,000	\$132,636,000	164	40			12		
187	Break Point: 1 out of 17 members selected												
188	2022-051	Nitrogen Fixation from Atmosphere for Urban Hydroponics	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$200,000	\$132,836,000	165	39			6	not our concern	
189	2022-054	Nitrogen Fixation and Nitrate Concentration for Land Crops	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$802,000	\$133,638,000	166	41			6	Poor fit for program goals	
190	2022-055	Chemical and Molecular Recycling of Environmental Plastics	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$910,000	\$134,548,000	167	43			6	Seems like a better fit for corporate R&D	
191	2022-063	Website Development: Statewide Sediment Estimates improves River Restoration	US Geological Survey, Upper Midwest Water Science Center	Joel Groten	\$250,000	\$134,798,000	168	70			6	The beta is too narrow to determine the total user experience across all diverse cases.	
192	2022-096	Mobile Lab Science Comes to You	Headwaters Science Center,	Lee Furusest	\$134,000	\$134,932,000	169	55			6	good concept, seems like a small impact area.	
193	2022-137	Minnesota Center for Agricultural Spray Drift Reduction	U of MN, College of Science and Engineering	Christopher Hogan	\$1,090,000	\$136,022,000	170	63			6	Not an LCCMR issue	

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194	2022-157	Enhanced Protection and Preservation of Lake Fourteen Waters	Lake Fourteen Clear Water Alliance (LFCWA)	Charlene Luke	\$136,000	\$136,158,000	171	65	-AIS. Per RFP requirement: includes some research that would be eligible for funding thru MAISRC. -Check capacity		6	integrated tribal work, but broader impacts are not defined.	
195	2022-190	Quantify Air Exposure Levels of Different Demographic Groups	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiayu Li	\$360,000	\$136,518,000	172	48			6	important problem, not for ENRTF. IAQ work should go through MDH.	
196	2022-199	Quantify On-Farm Methane Emissions with Low-Cost Sensor Networks	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiayu Li	\$425,000	\$136,943,000	173	58			6		
197	2022-208	Characterizing Microbial Diversity of Ephemeral Minnesota Wetlands	U of MN, College of Pharmacy	Christine Salomon	\$200,000	\$137,143,000	174	63			6	Not clear how this connects to priorities	
198	2022-213	Toxic Algae Removal System Powered by Solar Energy	U of MN, College of Science and Engineering	Terrence Simon	\$200,000	\$137,343,000	175	55			6	overly complicated tech chasing a problem solvable by floating wetland blocks, similar to those implemented in Chesapeake Bay. <a href="https://www.chesapeakebay.net/documents/FINAL-FTW-EXPERT-PANEL-REPORT-072716-LONG.pdf">https://www.chesapeakebay.net/documents/FINAL-FTW-EXPERT-PANEL-REPORT-072716-LONG.pdf</a>	
199	2022-237	Evaluating Bowfishing for Invasive Carp Control	U of MN, Duluth	Mark Clark	\$519,000	\$137,862,000	176	53	-AIS. Per RFP requirement: research, would be eligible for funding from MAISRC		6	plenty of GLRI dollars chasing carp, not a productive fit for ENRTF.	
200	2022-242	Freeze-Thaw and Flood-Drought Cycling on Streambank Erosion	U of MN, St. Anthony Falls Laboratory	Kimberly Hill	\$199,000	\$138,061,000	177	60			6	seems like a shot in the dark, need more basis	
201	2022-257	Automated Weed Management for Herbicide Water Runoff Reduction	U of MN, College of Science and Engineering	Junaed Sattar	\$816,000	\$138,877,000	178	49	-Potential sole source contract with Sentera- Generally ineligible; needs justification		6	This looks like tech searching for a funding pool. Consider USDA CIP.	
202	Break Point: 0 out of 17 members selected												
203	2022-045	Charting Minnesota's Future Natural Resources	SharedGeo,	Brian Huberty	\$142,000	\$139,019,000	179	56	-Check capacity		0	Not focused, what is the purpose of the project?	
204	2022-084	Sparking Curiosity Through Hands-On Environmental Education in Minnesota	U of MN, College of Biological Sciences	Seth Thompson	\$298,000	\$139,317,000	180	60			0		
205	2022-085	Supporting Community-Based Water Conservation through Public Engagement	U of MN, College of Biological Sciences	Seth Thompson	\$125,000	\$139,442,000	181	50			0	conceptually sound, not cost effective	
206	2022-086	Can We Turn Our Cities' Green Lakes Blue?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Lawrence Baker	\$632,000	\$140,074,000	182	65			0	Poor value	
207	2022-132	Monitoring Post-Nourishment Beach Evolution on Minnesota Point	U of MN, Duluth	John Swenson	\$99,000	\$140,173,000	183	59			0		
208	2022-179	Employing the Plant Microbiome to Protect Minnesota Plants	U of MN, College of Biological Sciences	Jannell Bazurto	\$162,000	\$140,335,000	184	45			0	seems like a dead end and unlikely to be operational	
209	2022-210	Lawn Sustainability through a Pilot Lawn Ambassador Program	U of MN, College of Food, Agricultural and Natural Resource Sciences	Eric Watkins	\$136,000	\$140,471,000	185	55			0	lacks a vetted social assessment of effectiveness, makes me concerned about usefulness and probability of success.	
210	2022-232	Study of Fog in Minnesota Climate and Environment	U of MN, St. Anthony Falls Laboratory	Lian Shen	\$340,000	\$140,811,000	186	30			0	Not a problem of significance	
211	2022-252	Quantify Indoor Air Quality Improvement with Air Purifiers	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiayu Li	\$518,000	\$141,329,000	187	30			0	IAQ should go through MDH.	
212	2022-258	Stream Ecosystems: Are Restorative Efforts Effective?	Minnesota State Colleges and Universities, Winona State University	Michael Delong	\$533,000	\$141,862,000	188	70	-Appears as if overhead costs (\$10k) are included - Prohibited; must be removed		0	This seems like a well-developed area that wouldn't benefit from additional research.	
213	2022-280	Trees for Equity	Metro Blooms	Rebecca Rice	\$598,000	\$142,460,000	189	45	-Application appears incomplete		0		
				<b>Total</b>	<b>\$142,460,000</b>								