

**M.I. 2024 Environment and Natural Resources Trust Fund (ENRTF)
LCCMR Recommendations for FY 2025**

For FY 2025 (July 1, 2024 -June 30, 2025), approximately \$79 million is available for funding from the Environment and Natural Resources Trust Fund (ENRTF).

As of July 20, 2023, the Legislative-Citizen Commission on Minnesota Resources (LCCMR) has selected 101 projects totaling \$79,644,000 to recommend to the 2024 Minnesota Legislature for funding from the ENRTF. In response to LCCMR’s 2024 Request for Proposal (RFP), 218 proposals requesting a total of approximately \$174 million were received and considered through a competitive, multi-stage evaluation. The following recommendations range from funding the full proposal and dollar amount requested to partial funding for specific proposal elements.

Check the LCCMR meeting schedule for the most up-to-date information and important process dates.

Topic Area	\$ Recommended	Percentage of Total Recommendation
Subd. 03 Foundational Natural Resource Data and Information 28 Recommendations	\$14,993,000	18.83%
Subd. 04 Water Resources 13 Recommendations	\$6,924,000	8.69%
Subd. 05 Environmental Education 22 Recommendations	\$11,262,000	14.14%
Subd. 06 Aquatic and Terrestrial Invasive Species 4 Recommendations	\$8,304,000	10.43%
Subd. 07 Air Quality, Climate Change, and Renewable Energy 5 Recommendations	\$4,833,000	6.07%
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat 16 Recommendations	\$10,910,000	13.70%
Subd. 09 Land Acquisition, Habitat, and Recreation 10 Recommendations	\$20,322,000	25.52%
Subd. 10 Administration, Emerging Issues, and Contract Agreement Reimbursement 3 Recommendations	\$2,096,000	2.63%
Total Recommendations	\$79,644,000	100.00%

Fund Source	\$ Amount
FY 2025 - Environment and Natural Resources Trust Fund (ENRTF)	\$79,644,000
Total \$	\$79,644,000

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Subd.	Proposal ID	Title	LCCMR Total Recommended Amount (FY25)	Organization	Project Manager	Region*
Subd. 03 Foundational Natural Resource Data and Information (28 Recommendations = \$14,993,000)						
03a	2024-014	Native Plant Community Data in the City of Duluth	\$198,000	Minnesota Land Trust	Virginia Breidenbach	NE
03b	2024-036	Reconstructing Historical Wild Rice to Understand Its Future	\$200,000	Science Museum of Minnesota, St. Croix Watershed Research Station	Lienne Sethna	Statewide
03c	2024-044	Characterizing Tree Cavities and Use by Minnesota's Wildlife	\$349,000	U of MN, Duluth - NRRI	Alexis Grinde	Statewide
03d	2024-046	Fate of Minnesota's Lakes in the Next Century	\$453,000	U of MN, College of Science and Engineering	Ardeshir Ebtehaj	Statewide
03e	2024-048	Turtle Island Skywatchers – Minnesota Research and Data Visualization	\$200,000	Native Skywatchers Inc	Annette S. Lee	Statewide
03f	2024-063	Monitoring Minnesota's Insects: Connecting Habitat to Insect Prey	\$199,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Matthew Petersen	Central, NW
03g	2024-068	Determining Ambient Background PFAS Concentrations in Minnesota Soils	\$621,000	Minnesota Pollution Control Agency	Sona Psarska	Statewide
03h	2024-071	Investigating Life History Characteristics of Minnesota Elk	\$933,000	MN DNR, Fish and Wildlife Division	Eric Michel	Statewide
03i	2024-072	Foundational Data for Moth and Butterfly Conservation	\$195,000	MN DNR, Ecological and Water Resources Division	Kyle Johnson	Statewide
03j	2024-078	DNR County Groundwater Atlas	\$3,200,000	MN DNR, Ecological and Water Resources Division	Vanessa Baratta	Statewide
03k	2024-083	Voyageurs Wolf Project - Phase III	\$996,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph Bump	Statewide
03l	2024-088	Distribution and Population Status of Weasels in Minnesota	\$400,000	U of MN, Duluth - NRRI	Michael Joyce	Statewide
03m	2024-150	Improving Aquatic Plant Knowledge for Healthy Waters	\$198,000	MN DNR, Ecological and Water Resources Division	Holly Bernardo	Statewide
03n	2024-158	New Small Mammal Monitoring Methods for Minnesota	\$199,000	U of MN, Duluth - NRRI	Ron Moen	Statewide
03o	2024-163	Status of Bats and Roost Trees after White-Nose Syndrome	\$195,000	U of MN, Duluth - NRRI	Ron Moen	Statewide
03p	2024-172	Sublethal Effects of Pesticides on the Invertebrate Community	\$387,000	U of MN, College of Biological Sciences	Mingzi Xu	Statewide
03q	2024-186	Modernizing Minnesota's Plant Community Classification and Field Guides	\$1,800,000	MN DNR, Ecological and Water Resources Division	Bruce Carlson	Statewide
03r	2024-192	Assessing Prairie Health to Inform Pollinator Conservation	\$297,000	Minnesota Zoological Society	Erik Runquist	NE
03s	2024-193	Understanding Native Fishes in the Bowfishing Era	\$588,000	U of MN, Duluth	Alec Lackmann	Statewide

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03t	2024-206	Preserving Minnesota Wildflower Information	\$199,000	U of MN, Bell Museum of Natural History	Ya Yang	Statewide
03u	2024-215	White-Tailed Deer Movement and Disease in Suburban Areas	\$699,000	U of MN, College of Biological Sciences	Meggan Craft	Statewide
03v	2024-222	Highly Pathogenic Avian Influenza and Minnesota Raptors	\$187,000	U of MN, Raptor Center	Victoria Hall	Statewide
03w	2024-223	Geologic Atlases for Water Resource Management	\$1,236,000	U of MN, MN Geological Survey	Barbara Lusardi	Statewide
03x	2024-224	Remote Sensing for Pollinator Habitat	\$180,000	Monarch Joint Venture	Wendy Caldwell	Statewide
03y	2024-247	Harnessing Cover Crops and Roots for Sustainable Cropping	\$375,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Axel Garcia y Garcia	SW
03z	2024-251	Effects of Conservation Grazing on Solar Sites Managed for Pollinator Habitat	\$88,000	Minnesota Native Landscapes	Daniel Tix	Central, Metro
03aa	2024-278	Genetic Detection of Endangered Mussels in the Mississippi	\$241,000	US Geological Survey, Ohio Water Microbiology Lab	Lauren Lynch	Statewide
03bb	2024-296	Integrated Population Modeling for Trumpeter Swans	\$180,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Todd Arnold	Statewide
		SubTotal	\$14,993,000			
Subd. 04 Water Resources (13 Recommendations = \$6,924,000)						
04a	2024-037	Hyperspectral Characterization of Toxic Harmful Algal Blooms	\$399,000	U of MN, St. Anthony Falls Laboratory	Ardeshir Ebtehaj	Statewide
04b	2024-057	Characterization of Chemicals in Structural Fire Wastewater	\$369,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Grace Wilson	Statewide
04c	2024-061	Climate Change and Management Effects on Methane Cycling in Lakes	\$540,000	U of MN, College of Biological Sciences	James Cotner	Statewide
04d	2024-073	Enhancing Wastewater Treatment through Genetic Sequencing	\$553,000	U of MN, College of Science and Engineering	Timothy LaPara	Statewide
04e	2024-077	Improving Water Efficiency Programming with Measurable Outcomes	\$200,000	City of Woodbury	Heidi Quinn	Metro
04f	2024-086	Fluorine Beyond PFAS: Pesticide and Pharmaceutical Degradation	\$400,000	U of MN, College of Science and Engineering	William Arnold	Statewide
04g	2024-161	Novel Nutrient Recovery Process from Wastewater Treatment Plants	\$486,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	Statewide
04h	2024-164	Visitor Perceptions of Water Quality to Aid Lake Management	\$379,000	U of MN, Humphrey School of Public Affairs	Bonnie Keeler	Statewide
04i	2024-173	Wildfire Impacts on Mercury Cycling in Wilderness Lakes	\$297,000	U of MN, Duluth - NRRI	Christopher Filstrup	Statewide

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04j	2024-213	Flood and Drought Modeling for Minnesota	\$499,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	John Nieber	Statewide
04k	2024-257	Breaking the PFAS Cycle with a Full-Scale Demonstration	\$1,481,000	Barr Engineering Co.	Andrew McCabe	Statewide
04l	2024-269	Are Stream Restoration Efforts Effective? An Evidence-Based Assessment	\$200,000	Saint Mary's University	Andrew Robertson	Statewide
04m	2024-279	Uncovering the Past to Protect Minnesota's Walleye Fisheries	\$1,121,000	Science Museum of Minnesota, St. Croix Watershed Research Station	Adam Heathcote	Statewide
		SubTotal	\$6,924,000			
Subd. 05 Environmental Education (22 Recommendations = \$11,262,000)						
05a	2024-015	Jay C. Hormel Nature Center Supplemental Teaching Staff	\$410,000	City of Austin	Luke Reese	SE
05b	2024-017	Connecting Communities to Voyageurs Classroom and Minnesota's National Park	\$994,000	Voyageurs Conservancy	Christina Hausman Rhode	Statewide
05c	2024-023	Supporting Minnesota Teachers to Implement Culturally Sustaining Environmental Education	\$295,000	U of MN, College of Biological Sciences	Seth Thompson	Statewide
05d	2024-027	Phenology Investigations in Minnesota Schools	\$392,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Robert Blair	Statewide
05e	2024-028	Get the Lead Out: Lead-Free Fishing Tackle Education	\$254,000	Minnesota Pollution Control Agency	Kelly Amoth	Statewide
05f	2024-058	Water Science and Policy Fellowships for Minnesota	\$407,000	U of MN, Duluth - Sea Grant	Alexander Frie	Statewide
05g	2024-059	Mentoring Next Generation of Conservation Professionals - Phase 2	\$793,000	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah Loon	Statewide
05h	2024-091	Restoring Land, Reviving Heritage: Indigenous Conservation - Phase 2	\$688,000	Belwin Conservancy	Hannah Smith	Metro
05i	2024-099	Unlocking Minnesota Wilderness for Youth	\$705,000	YMCA of the North	Beth Becker	Statewide
05j	2024-100	Outdoor Pathways to Environmental Education, Recreation, and Careers	\$1,500,000	Wilderness Inquiry	Meg Krueger	Statewide
05k	2024-111	Increasing Access to Environmental Education Youth Camps	\$163,000	Osprey Wilds Environmental Learning Center	Bryan Wood	Statewide
05l	2024-115	Launching Environmental Education at Shepard Farm	\$639,000	Dodge Nature Center	Pete Cleary	Metro
05m	2024-129	YES! Students Step Up To Reduce Carbon Footprint	\$199,000	Prairie Woods Environmental Learning Center	Kalley Pratt	Statewide
05n	2024-139	The Boundary Waters is Our Backyard	\$500,000	Friends of the Boundary Waters Wilderness	Alison Nyenhuis	NE

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05o	2024-168	Season Watch: Cultivating Young Naturalists with Phenology Education	\$180,000	Northern Community Radio, Inc.	Sarah Bignall	Statewide
05p	2024-177	Rural Minnesota Mobile Lab: Environmental-Focused Earth Science Education	\$459,000	U of MN, Crookston	Timothy Dudley	Statewide
05q	2024-188	Increasing Accessibility of Environmental Education at Deep Portage	\$228,000	Deep Portage Learning Center	Lindsay Bjorklund	Statewide
05r	2024-200	College-School Collaboration to Promote Environmental Career Paths	\$174,000	Minnesota State Colleges and Universities, Minnesota State University Mankato	Kimberly Musser	Statewide
05s	2024-250	Water Quality and Robots: Experientially Educating Minnesotan Youth	\$353,000	U of MN, College of Science and Engineering	Nikolaos Papanikolopoulos	Statewide
05t	2024-272	Expanding Youth and Family Fishing Opportunities	\$1,162,000	MN DNR, Fish and Wildlife Division	Brian Nerbonne	Statewide
05u	2024-273	Youth Conservation Empowerment Project	\$70,000	U of MN, Extension Center for Youth Development	Nicole Pokorney	SE
05v	2024-292	North Minneapolis Nature Connection: Storytelling and Leadership Pathways	\$697,000	The Loppet Foundation	Anne Olson	Metro
		SubTotal	\$11,262,000			
Subd. 06 Aquatic and Terrestrial Invasive Species (4 Recommendations = \$8,304,000)						
06a	2024-089	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 7	\$7,000,000	U of MN, MITPPC	Heather Koop	Statewide
06b	2024-097	Mitigating the Spread of Invasive Jumping Worms	\$470,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera Krischik	Statewide
06c	2024-114	Implementing Innovative Techniques to Manage Low-Density Invasive Carp	\$634,000	MN DNR, Fish and Wildlife Division	Brian Nerbonne	Statewide
06d	2024-198	Early Detection of Invasive Viruses in Native Pollinators	\$200,000	U of MN, College of Veterinary Medicine	Declan Schroeder	Statewide
		SubTotal	\$8,304,000			
Subd. 07 Air Quality, Climate Change, and Renewable Energy (5 Recommendations = \$4,833,000)						
07a	2024-039	Minimizing Minnesota's Landfill Problem by Expanding Waste Diversion	\$2,318,000	Better Futures Minnesota	Jason Allen	Statewide
07b	2024-049	Building Resilient Urban Forests for Climate Change	\$752,000	Great River Greening	Todd Rexine	Central, Metro, SW
07c	2024-076	Improving Agricultural Ecosystems through Autonomous Weed Control	\$978,000	U of MN, WCROC	Eric Buchanan	Statewide
07d	2024-098	Advanced Biofilter for N ₂ O Removal	\$325,000	U of MN, College of Biological Sciences	Satoshi Ishii	Statewide
07e	2024-153	Managing Future Floods and Droughts in Minnesota	\$460,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Heidi Roop	Statewide

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		SubTotal	\$4,833,000			
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat (16 Recommendations = \$10,910,000)						
08a	2024-005	Long-Term Preservation of Minnesota’s Ball Cactus Population	\$100,000	U of MN, Landscape Arboretum	David Remucal	SW
08b	2024-022	Morrison County Historical Society Streambank Stabilization and Restoration	\$519,000	Morrison Soil and Water Conservation District	Shannon Wettstein	Central
08c	2024-045	Can Increased Tree Diversity Increase Community Diversity?	\$415,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Marcella Windmuller-Campione	Central, NE, NW
08d	2024-090	Restoration of Riverside Park	\$141,000	City of Long Prairie	Ted Gray	Central
08e	2024-096	Pollinator Central IV: Habitat Improvement with Public Engagement	\$698,000	Great River Greening	Rebecca Tucker	Central, Metro
08f	2024-103	Conservation Grazing for Birds, Beef, and Better Soil	\$342,000	Audubon Minnesota	Dale Gentry	Statewide
08g	2024-108	Minnesota Microbes for Enhanced Biodegradation of Microplastics	\$524,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brett Barney	Statewide
08h	2024-170	Completing the Mississippi River Greenway: Dakota County	\$657,000	Dakota County	Tom Lewanski	Metro
08i	2024-175	Enabling Nature to Destroy Environmental PFAS Contaminants	\$378,000	U of MN, College of Biological Sciences	Romas Kazlauskas	Statewide
08j	2024-185	Bioacoustics for Species Monitoring and Conservation - Phase 2	\$568,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elena West	Statewide
08k	2024-189	Preventing PFAS and Microplastics Contaminants across Minnesota	\$656,000	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	Statewide
08l	2024-227	Shingle Creek Aquatic and Shoreline Habitat Enhancement	\$1,100,000	Minneapolis Park and Recreation Board	Adam Arvidson	Metro
08m	2024-237	LiDAR Technology to Help Prevent Wildlife Fatalities from Wind Turbines	\$525,000	U of MN, College of Science and Engineering	Sayan Biswas	Metro
08n	2024-255	Road Salt Pollution of Surface Waters from Groundwater	\$622,000	U of MN, College of Science and Engineering	John Gulliver	Statewide
08o	2024-277	Growing the Minnesota Bison Conservation Herd	\$1,775,000	MN DNR, State Parks and Trails Division	Molly Tranel Nelson	Statewide
08p	2024-298	Priority Lakes: Meeting Protection Goals and Multiplying Benefits	\$1,890,000	Hubbard County Soil & Water Conservation District	Crystal Mathisrud	Central
		SubTotal	\$10,910,000			
Subd. 09 Land Acquisition, Habitat, and Recreation (10 Recommendations = \$20,322,000)						

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Subd.	Proposal ID	Title	LCCMR Total Recommended Amount (FY25)	Organization	Project Manager	Region*
09a	2024-009	Minnesota Driftless Hiking Trail	\$426,000	Minnesota Driftless Hiking Trail	Marty Walsh	SE
09b	2024-064	Local Parks, Trails, and Natural Areas Grant Programs	\$4,791,000	MN DNR, State Parks and Trails Division	Jenni Bubke	Statewide
09c	2024-081	Acquisition of State Park Inholdings	\$1,886,000	Parks & Trails Council of Minnesota	Brett Feldman	Statewide
09d	2024-092	Scientific and Natural Area (SNA) Biodiversity Protection	\$957,000	MN DNR, Ecological and Water Resources Division	Judy Schulte	Statewide
09e	2024-093	Metropolitan Regional Parks System Land Acquisition - Phase 8	\$3,000,000	Metropolitan Council	Jessica Lee	Metro
09f	2024-094	Zumbro River Regional Water Trail	\$170,000	City of Oronoco	Ryland Eichorst	SE
09g	2024-113	Spring Lake Park Reserve Restoration and River Access	\$2,925,000	Dakota County	Niki Geisler	Metro
09h	2024-136	Minnesota State Trails Development	\$5,036,000	MN DNR, State Parks and Trails Division	Kent Skaar	Statewide
09i	2024-174	Birch Lake Marina Design	\$197,000	City of Babbitt	Robecca Jaeger	Statewide
09j	2024-264	Dent and Vergas Spur Trails	\$934,000	Otter Tail County	Nicholas Leonard	Central
		SubTotal	\$20,322,000			
Subd. 10 Administration, Emerging Issues, and Contract Agreement Reimbursement (3 Recommendations = \$2,096,000)						
10a	2024-001	LCCMR Budget Supplement	\$750,000	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	Statewide
10b	2024-002	Emerging Issues 2024	\$1,071,000	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	Statewide
10c	2024-117	2024 Contract Agreement Reimbursement	\$275,000	MN DNR, Grants Unit	Katherine Sherman-Hoehn	Statewide
		SubTotal	\$2,096,000			
		Total	\$79,644,000			

* Metro region includes the 11 counties of Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Sherburne, Washington, and Wright.