

M.L. 2022 Environment and Natural Resources Trust Fund (ENRTF)
LCCMR Appropriations for RFP 2022/FY 2023
Comparison to LCCMR Actions—Bill Order

Proposal ID	Title	Organization	Project Manager	Hansen Amendment (8/26/21)	Young Option (9/23/21)	Bill Subd.	Transfer of previous funds	ENRTF \$ FY2023	Total Appropriation \$	Scores
Subd. 03 Foundational Natural Resource Data and Information										
2022-043	Improving Golden-Winged Warbler Conservation and Habitat Restoration	U of MN, Duluth - NRRI	Alexis Grinde	\$197,000	\$197,000	03a		\$197,000	\$197,000	76
2022-048	Enhancing Natural Resource Conservation Through Species Distribution Modeling	MN DNR, Ecological and Water Resources Division	Holly Bernardo	\$200,000	\$200,000	03b		\$200,000	\$200,000	71
2022-076	Modernizing Minnesota's Digital Lake Inventory	MN DNR, Ecological and Water Resources Division	Steve Kloiber	\$700,000	\$535,000	03c		\$787,000	\$787,000	68
2022-091	How Do Prescribed Fires Affect Native Prairie Bees?	Negaunee Institute for Plant Conservation Science and Action at the Chicago Horticultural Society	Stuart Wagenius	\$375,000	\$278,000	03d		\$500,000	\$500,000	66
2022-109	Status of Minnesota Blueberries and Related Berry Species	U of MN, Duluth	Briana Gross	\$191,000	\$191,000	03e		\$191,000	\$191,000	66
2022-122	Distribution and Movements of Fishers in Southern Minnesota	U of MN, Duluth - NRRI	Michael Joyce	\$309,000	\$212,000	03f		\$340,000	\$340,000	61
2022-149	Offal Wildlife Watching: How Do Hunters' Provisions Impact Scavengers?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph Bump	\$473,000	\$372,000	03g		\$473,000	\$473,000	70
2022-163	Land-Use and Climate Impacts on Minnesota's Whitewater River	U of MN, St. Anthony Falls Laboratory	Andrew Wickert	\$199,000	\$199,000	03h		\$199,000	\$199,000	61
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	\$189,000	03i		\$189,000	\$189,000	77
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	\$199,000	03j		\$199,000	\$199,000	74
2022-217	Establishing a Center for Prion Research and Outreach	U of MN, College of Veterinary Medicine	Peter Larsen	\$3,877,000	\$3,528,000	03k		\$3,877,000	\$3,877,000	81
2022-266	Sweetening the Crop: Perennial Flax for Ecosystem Benefits	U of MN, College of Food, Agricultural and Natural Resource Sciences	Neil Anderson	\$704,000	\$490,000	03l		\$490,000	\$490,000	62
2022-275	Beavers, Trees, and Climate - Increasing Floodplain Forest Resilience	National Park Service, Mississippi National River and Recreation Area	Nancy Duncan	\$383,000	\$297,000	03m		\$430,000	\$430,000	69

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	Chronic Wasting Disease Prion Soil Research					03n		\$732,000	\$732,000	
2022-081	Strategic Framework to Guide Local Water Storage Implementation	Board of Water and Soil Resources	Henry Van Offelen		\$200,000	03o		\$200,000	\$200,000	59
2022-031	Efficacy of Urban Archery Hunting to Manage Deer	Minnesota State Colleges and Universities, Bemidji State University	Jacob Haus	\$293,000	\$201,000					61
2022-200	Maximizing Lowland Conifer Ecosystem Services - Phase 2	U of MN, College of Food, Agricultural and Natural Resource Sciences	Marcella Windmuller-Campione	\$445,000	\$315,000					63
2022-225	Native Plant Community Data in City of Duluth	Minnesota Land Trust	Virginia Breidenbach		\$198,000					59
2022-226	Neonicotinoid Impacts on Minnesota Deer and Prairie Chickens	MN DNR, Fish and Wildlife Division	Michelle Carstensen	\$943,000	\$700,000					66
2022-238	Expanding the Minnesota Ecological Monitoring Network	MN DNR, Ecological and Water Resources Division	Holly Bernardo		\$472,000					59
2022-247	Minnesota Biodiversity Atlas - Phase 3	U of MN, Bell Museum of Natural History	Timothy Whitfeld	\$528,000	\$356,000					60
2022-215	WITHDRAWN - What's Causing Declines in Black Bear Reproduction	MN DNR, Fish and Wildlife Division	Andrew Tri	\$492,000	\$398,000					
				\$10,697,000	\$9,727,000		\$0	\$9,004,000	\$9,004,000	
Subd. 04 Water Resources										
2022-049	Methods to Destroy PFAS in Landfill Leachates	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger Ruan	\$200,000	\$200,000	04a		\$200,000	\$200,000	77
2022-087	High Temperature Anaerobic Digestion of Sewage Sludge	U of MN, College of Science and Engineering	Timothy LaPara	\$269,000	\$208,000	04b		\$208,000	\$208,000	69
2022-099	Mitigating Cyanobacterial Blooms and Toxins Using Clay-Algae Flocculation	U of MN, St. Anthony Falls Laboratory	Judy Yang	\$326,000	\$264,000	04c		\$326,000	\$326,000	72
2022-103	Changing Winters and Game Fish in Minnesota Lakes	U of MN, Duluth - Large Lakes Observatory	Ted Ozersky	\$238,000	\$200,000	04d		\$238,000	\$238,000	71
2022-116	Rainy River Drivers of Lake of the Woods Algal Blooms	US Geological Survey, Upper Midwest Water Science Center	Anna Baker	\$608,000	\$526,000	04e		\$608,000	\$608,000	77

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2022-152	Water and Climate Information to Enhance Community Resilience	U of MN, College of Food, Agricultural and Natural Resource Sciences	Tracy Twine	\$502,000	\$355,000	04f		\$564,000	\$564,000	63
2022-155	Catch and Reveal: Discovering Unknown Fish Contamination Threats	U of MN, Duluth - NRRI	Bridget Ulrich	\$246,000	\$201,000	04g		\$246,000	\$246,000	73
2022-166	Increased Intense Rain and Flooding in Minnesota's Watersheds	Science Museum of Minnesota, St. Croix Watershed Research Station	Jason Ulrich	\$192,000	\$192,000	04h		\$192,000	\$192,000	70
2022-224	Is the Tire Chemical 6PPDq Killing Minnesota's Fish?	U of MN, College of Food, Agricultural and Natural Resource Sciences	Nicholas Phelps	\$437,000	\$354,000	04i		\$437,000	\$437,000	72
2022-251	Mitigation Strategies for Agroplastic PFAS and Microplastic Contamination	U of MN, WCROC	Joel Tallaksen	\$169,000	\$169,000	04j		\$169,000	\$169,000	72
2022-265	Innovative Technology for PFAS Destruction in Drinking Water	U of MN, Southern Research and Outreach Center	Shaobo Deng	\$445,000	\$350,000	04k		\$445,000	\$445,000	70
2022-272	Salt Threatens Minnesota Water Quality and Fisheries	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$1,093,000	\$774,000	04l		\$1,228,000	\$1,228,000	63
2022-286	PFAS Contaminant Mitigation Using Hybrid Engineered Wetlands	St. Louis County	Mark St. Lawrence	\$446,000	\$366,000	04m		\$446,000	\$446,000	73
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		\$476,000	04n		\$476,000	\$476,000	57
2022-095	Evaluating Locally Sourced BIOCHAR for Restoring Impaired Waterbodies	Minnesota Pollution Control Agency	Dan Breneman		\$200,000					55
2022-164	Leveraging Data Analytics Innovations for Watershed District Planning	Minnehaha Creek Watershed District	Brian Beck	\$704,000	\$483,000					61
2022-218	Removing CECs from Stormwater with Biofiltration	U of MN, St. Anthony Falls Laboratory	Andy Erickson	\$575,000	\$439,000					68
				\$6,450,000	\$5,757,000		\$0	\$5,783,000	\$5,783,000	
Subd. 05 Environmental Education										
2022-026	Teacher Field School: Stewardship through Nature-Based Education	Hamline University	Patty Born	\$445,000	\$310,000	05a		\$500,000	\$500,000	62

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2022-029	Increasing K-12 Student Learning to Develop Environmental Awareness, Appreciation, and Interest	Osprey Wilds Environmental Learning Center	Bryan Wood	\$1,602,000	\$1,368,000	05b		\$1,602,000	\$1,602,000	76
2022-066	Expanding Access to Wildlife Learning Bird by Bird	MN DNR, Ecological and Water Resources Division	Alison Cariveau	\$246,000	\$200,000	05c		\$276,000	\$276,000	64
2022-107	Engaging a Diverse Public in Environmental Stewardship	Great River Greening	Amy Kilgore	\$200,000	\$200,000	05d		\$300,000	\$300,000	62
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	\$198,000	05e		\$198,000	\$198,000	68
2022-169	ESTEP: Earth Science Teacher Education Project	Minnesota Science Teachers Association	Lee Schmitt	\$441,000	\$317,000	05f		\$495,000	\$495,000	64
2022-236	YES! Students Take Action to Complete Eco Projects	Prairie Woods Environmental Learning Center	Joseph Dunlavy	\$199,000	\$199,000	05g		\$199,000	\$199,000	79
2022-250	Increasing Diversity in Environmental Careers	MN DNR, Operational Services Division (OSD)	Mimi Daniel	\$182,000	\$182,000	05h		\$500,000	\$500,000	67
2022-279	Diversity and Access to Wildlife-Related Opportunities	U of MN, College of Food, Agricultural and Natural Resource Sciences	Alexandrea Safiq	\$199,000	\$199,000	05i		\$199,000	\$199,000	70
2022-160	LCCMR Stories: Sharing Minnesota's Biggest Environmental Investment	Science Museum of Minnesota	Joy Hobbs	\$538,000	\$411,000					68
2022-241	North Shore Private Forestry Outreach Education and Implementation	Sugarloaf The North Shore Stewardship Association	Molly Thompson		\$221,000					59
2022-249	Strengthening Watershed Stewardship through Outdoor Youth Education	Minnesota Trout Unlimited	John Lenczewski	\$265,000	\$200,000					60
2022-259	Partnering for Pollinator Protection	Monarch Joint Venture	Wendy Caldwell	\$123,000	\$123,000					61
2022-273	BioBlitzes Engaging Community in Scientific Efforts	Minneapolis Parks and Recreation Board	MaryLynn Pulscher		\$198,000					56
				\$4,638,000	\$4,326,000		\$0	\$4,269,000	\$4,269,000	
Subd. 06 Aquatic and Terrestrial Invasive Species										
2022-067	Minnesota Invasive Terrestrial Plants and Pests Center	U of MN, MITPPC	Heather Koop	\$6,230,000	\$4,500,000	06a		\$6,230,000	\$6,230,000	81

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2022-089	Purple Loosestrife Biocontrol Citizen Science Program	St. Croix River Association	Katie Sickmann	\$174,000	\$174,000	06b		\$174,000	\$174,000	71
				\$6,404,000	\$4,674,000		\$0	\$6,404,000	\$6,404,000	
Subd. 07 Air Quality and Renewable Energy										
2022-180	Green Solar Cells from a Minnesota Natural Resource	U of MN, College of Science and Engineering	Chris Leighton	\$673,000	\$552,000	07a		\$673,000	\$673,000	73
2022-291	Morris GHG Emissions Inventory and Mitigation Strategies	City of Morris	Blaine Hill		\$170,000	07b		\$170,000	\$170,000	57
2022-071	Using Minnesota Timber to Mitigate Landfill Methane Emissions	U of MN, Duluth - NRRI	Brian Barry	\$1,099,000	\$753,000					61
2022-117	How Do Lakes Influence Minnesota's Carbon Budget?	U of MN, College of Biological Sciences	James Cotner		\$279,000					56
				\$1,772,000	\$1,754,000		\$0	\$843,000	\$843,000	
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat										
2022-006	Minnesota's Volunteer Rare Plant Conservation Corps	U of MN, Landscape Arboretum	David Remucal	\$765,000	\$515,000	08a		\$859,000	\$859,000	60
2022-034	Conservation Corps Veterans Service Corps Program	Conservation Corps Minnesota	Brian Miller	\$1,339,000	\$1,339,000	08b		\$1,339,000	\$1,339,000	93
2022-061	Creating Seed Sources of Early-Blooming Plants for Pollinators	MN DNR, Ecological and Water Resources Division	Christina Locke	\$200,000	\$200,000	08c		\$200,000	\$200,000	63
2022-065	Hastings Lake Rebecca Park Area	City of Hastings, Parks & Recreation	Chris Jenkins	\$1,780,000	\$1,200,000	08d		\$1,000,000	\$1,000,000	60
2022-167	Pollinator Plantings and the Redistribution of Soil Toxins	U of MN, College of Biological Sciences	Emilie Snell-Rood	\$543,000	\$384,000	08e		\$610,000	\$610,000	63
2022-188	PFAS Fungal-Woodchip Filtering System	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiwei Zhang	\$189,000	\$189,000	08f		\$189,000	\$189,000	71
2022-214	Phytoremediation for Extracting Deicing Salt	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$451,000	\$365,000	08g		\$451,000	\$451,000	72
2022-221	Mustinka River Fish and Wildlife Habitat Corridor Rehabilitation	Bois de Sioux Watershed District	Jamie Beyer	\$2,692,000	\$2,692,000	08h		\$2,692,000	\$2,692,000	89
2022-244	Bohemian Flats Savanna Restoration	Minneapolis Parks and Recreation Board	Adam Arvidson	\$255,000	\$200,000	08i		\$286,000	\$286,000	61

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2022-260	Watershed and Forest Restoration: What a Match!	Board of Water and Soil Resources	Lindberg Ekola	\$3,318,000	\$2,908,000	08j		\$3,318,000	\$3,318,000	78
2022-142	River Habitat Restoration and Recreation in Melrose	City of Melrose	Colleen Winter		\$575,000	08k		\$350,000	\$350,000	52
2022-047	Conservation Cooperative for Working Lands	Pheasants Forever Inc	Tanner Bruse		\$1,500,000					54
2022-058	Pollinator Habitat Pilot Project at Closed Landfills	Minnesota Pollution Control Agency	Eric Pederson	\$1,224,000	\$853,000					62
2022-062	Root River Habitat Restoration Project	Eagle Bluff Environmental Learning Center	Colleen Foehrenbacher	\$703,000	\$537,000					68
2022-125	Connecting the Mississippi Flyway to Urban Open Space	Minneapolis Parks and Recreation Board	Adam Arvidson		\$175,000					54
2022-145	Restoring Forests and Savannas Using Silvopasture - Phase 2	Great River Greening	Brad Gordon	\$550,000	\$414,000					67
2022-146	Minnesota Green Schoolyards	The Trust for Public Land	Eric Weiss		\$631,000					58
2022-181	Mitigating the Effects of Visitor Use Patterns	Superior Hiking Trail Association	Lisa Luukkala	\$432,000	\$310,000					64
				\$14,441,000	\$14,987,000		\$0	\$11,294,000	\$11,294,000	
Subd. 9 Habitat and Recreation										
2022-005	Mesabi Trail: Wahlsten Road (CR 26) to Tower	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline	\$1,762,000	\$1,307,000	09a		\$1,307,000	\$1,307,000	66
2022-041	Environmental Learning Classroom with Trails	Independent School District #712, Mountain Iron Buhl Public Schools	Reggie Engebritson	\$82,000	\$82,000	09b		\$82,000	\$82,000	80
2022-057	Local Parks, Trails, and Natural Areas Grant Programs	MN DNR, Grants Unit	Audrey Mularie	\$3,560,000	\$3,400,000	09c		\$3,560,000	\$3,560,000	85
2022-088	St. Louis River Re-Connect	City of Duluth	Cliff Knettel	\$1,780,000	\$1,200,000	09d		\$500,000	\$500,000	60
2022-101	Native Prairie Stewardship and Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$1,353,000	\$942,000	09e		\$1,353,000	\$1,353,000	62
2022-111	Minnesota State Parks and State Trails Maintenance and Development	MN DNR, State Parks and Trails Division	Shelby Kok	\$3,783,000	\$3,230,000	09f	\$2,183,000	\$1,600,000	\$3,783,000	76
2022-135	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$7,018,000	\$6,022,000	09g		\$7,387,000	\$7,387,000	77

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2022-158	SNA Habitat Restoration, Public Engagement	MN DNR, Ecological and Water Resources Division	Molly Roske	\$2,768,000	\$2,022,000	09h		\$5,000,000	\$5,000,000	65
2022-008	The Missing Link: Gull Lake Trail, Fairview Township	Fairview Township, Fairview Trail North Portion - Gull Lake Trail	Marla Yoho		\$1,394,000	09i		\$1,394,000	\$1,394,000	59
2022-127	Silver Bay Multimodal Trailhead Project	City of Silver Bay	Lana Fralich		\$1,650,000	09j		\$1,000,000	\$1,000,000	55
2022-140	Brookston Campground, Boat Launch, and Outdoor Recreational Facility	City of Brookston	Kaycee Melin		\$453,000	09k		\$453,000	\$453,000	49
2022-143	Silver Lake Trail Connection	City of Virginia	Britt See-Benes		\$727,000	09l		\$727,000	\$727,000	57
2022-150	Floodwood Campground Improvement Project	City of Floodwood	Corinne Suonvieri		\$816,000	09m		\$816,000	\$816,000	51
2022-165	Ranier Safe Harbor/Transient Dock - Phase 2	City of Ranier	Sherril Gautreaux		\$1,113,000	09n		\$1,000,000	\$1,000,000	53
2022-027	Pierz Park and Campground Expansion Project	City of Pierz	Bob Otremba		\$200,000					56
2022-038	Redhead Mountain Bike Park	Minnesota Discovery Center	Donna Johnson	\$1,760,000	\$1,285,000					65
2022-144	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	John Geissler	\$2,231,000	\$1,604,000					64
2022-170	Prospector ATV Trails	City of Ely	Harold Langowski		\$944,000					51
2022-253	City of Biwabik Recreation Area	City of Biwabik	Jeff Jacobson		\$749,000					53
				\$26,097,000	\$29,140,000		\$2,183,000	\$26,179,000	\$28,362,000	
Subd. 10 Administrative and Emerging Issues										
2022-121	ML 2022 Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$210,000	\$210,000					
n/a	Emerging Issues Account (Buffer + Remaining on bottom line)	LCCMR	Becca Nash	\$250,000	\$384,000					
	Subtotal			\$460,000	\$594,000		\$0	\$0	\$0	
Subd. 10 Other Projects										
	Aggregate Resource Mapping					10a		\$500,000	\$500,000	

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	Leaded Gasoline Contamination Analysis					10b		\$200,000	\$200,000		
	Living Snow Fence Program					10c		\$200,000	\$200,000		
	Forest Data Inventory					10d		\$500,000	\$500,000		
	Conservation Reserve Program State Incentives					10e		\$750,000	\$750,000		
	Groundwater Storage and Recovery Datatbase					10f		\$400,000	\$400,000		
	Rural and Farmstead Ring Levies					10g		\$360,000	\$360,000		
	Replacing Failing Septic Systems to Protect Groundwater					10h		\$2,000,000	\$2,000,000		
	Forever Green					10i		\$763,000	\$763,000		
	Pig's Eye Landfill Task Force					10j		\$800,000	\$800,000		
	Developing Markets for Continuous Living Cover Crops					10k		\$500,000	\$500,000		
	Subtotal							\$0	\$6,973,000	\$6,973,000	
Subd. 11 Administrative; 2022 Contract Agreement Reimbursement											
2022-121	2022 Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn			11	\$78,000	\$132,000	\$210,000	88	
	Subtotal						\$78,000	\$132,000	\$210,000		
Subd. 20 Transfers											
	Emerging Issues Account	LCCMR	Becca Nash			20	\$202,000	\$0	\$202,000	88	
	Subtotal						\$202,000	\$0	\$202,000		
	Total						\$0	\$2,463,000	\$70,881,000	\$73,344,000	0
	GRAND TOTAL							\$73,344,000			