

**ENRTF Request for Proposal (RFP) - FY 2022
Final Proposals Received by Category without Summaries**

The amount available for appropriation from the Environment and Natural Resources Trust Fund (ENRTF) for the FY 2022 and FY 2023 biennium (July 1, 2021 -June 30, 2023) will be determined after June 30, 2020. As of May 22, 2020, the Legislative-Citizen Commission on Minnesota Resources (LCCMR) received 329 proposals requesting a total of approximately \$240 million. This RFP process is for funding beginning July 1, 2021.

LCCMR reviews and evaluates all proposals against their 10 adopted evaluation criteria. On June 17-18, members will select a subset of high-ranking proposals to invite for presentation before the LCCMR on July 7, 8, 9, 14, 15 and 16 in order to receive further consideration. On August 6-7, LCCMR will make final selection and funding allocation decisions. These selected projects will be presented to the 2021 Minnesota Legislature as the official LCCMR recommendations for spending from the Environment and Natural Resources Trust Fund.

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

Proposal ID	Last Name	First Name	Title	Organization	Funding Total
A. Foundational Natural Resource Data and Information (42 Proposals / \$34,858,000)					
2021-011	Whitfeld	Timothy	Minnesota Flora: A New Generation of Discovery	U of MN, Bell Museum of Natural History	\$1,527,000
2021-031	Grinde	Alexis	Grassland Bird Conservation: To Hay or Delay?	U of MN, Duluth - NRRRI	\$552,000
2021-052	Fieberg	John	Monitoring Carnivores Statewide: A Citizen-Science Trail-Cam Project	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$450,000
2021-054	Joyce	Michael	Distribution and Movements of Fishers in Southern Minnesota	U of MN, Duluth - NRRRI	\$415,000
2021-055	Perleberg	Donna	Protecting Minnesota'S Beneficial Macroalgae: All Stoneworts aren't Starry	MN DNR, Ecological and Water Resources Division	\$1,081,000
2021-056	Joyce	Michael	Healthy Forests: Wildlife as Dispersers of Beneficial Fungi	U of MN, Duluth - NRRRI	\$290,000
2021-061	Onello	Emily	Manoomin Matters	U of MN, Duluth	\$314,000
2021-071	Putzier	Paul	County Groundwater Atlas	MN DNR, Ecological and Water Resources Division	\$2,500,000
2021-082	Arends	Heather	Aggregate Resource Mapping of St. Louis County	MN DNR, Lands and Minerals Division	\$767,000
2021-087	Markle	Tricia	Improving Resiliency and Conservation Outcomes gor Minnesota Turtles	Minnesota Zoological Society	\$460,000
2021-103	Bump	Joseph	Offal Wildlife Watching: How Do Hunters Provision Scavengers?	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$531,000
2021-104	Haus	Jacob	Habitat Use and Recruitment Rates in Exurban Wolves	Minnesota State Colleges and Universities, Bemidji State University	\$263,000
2021-113	Carlson	Bruce	Minnesota Biological Survey: Setting a Future Course	MN DNR, Ecological and Water Resources Division	\$3,200,000

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2021-118	Halbach	Myrna	2021 Groundwater Contamination Mapping Project	Minnesota Pollution Control Agency	\$940,000
2021-126	Ozersky	Ted	Are Fish Mercury Concentrations Higher in Winter?	U of MN, Duluth - Large Lakes Observatory	\$387,000
2021-133	Berman	Jesse	Ticks in Minnesota! Informing Control and Response	U of MN, School of Public Health	\$250,000
2021-138	Lusardi	Barbara	Geologic Atlases for Water Resource Management	U of MN, MN Geological Survey	\$4,122,000
2021-152	Isbell	Forest	Assessing Benefits of Enhancing Biodiversity in Habitat Fragments	U of MN, Cedar Creek Ecosystem Science Reserve	\$498,000
2021-156	Fulton	David	Human Dimensions of Urban Carnivore Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$392,000
2021-159	Knopik	Josh	Collaborative State and Tribal Wild Rice Monitoring Program	MN DNR, Ecological and Water Resources Division	\$859,000
2021-166	Bazurto	Jannell	Survey of Overlooked Natural Resource: Plant Growth-Stimulating Microbes	U of MN, College of Biological Sciences	\$339,000
2021-181	Lord	Chris	Update Metro Mlccs for Enhanced Natural Resource Management	Metro Conservation Districts	\$499,000
2021-183	Slaats	Alison	Supporting Integrated Resource Management through Upgraded Lidar Products	Minnesota IT Services	\$3,200,000
2021-228	Mulla	David	Solar Co-Benefits: Reducing Nitrates, Enhancing Habitat, Sequestering Carbon	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$344,000
2021-230	Guala	Michele	Opening or Closing Parks in a Pandemic?	U of MN, St. Anthony Falls Laboratory	\$343,000
2021-243	Monson Geerts	Stephen	Baseline Asbestos-Emp Study of NE Minnesota Air, Pre-Mining	U of MN, Duluth - NRRRI	\$388,000
2021-275	Bump	Joseph	Voyageurs Wolf Project – Phase II	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$575,000
2021-278	Dingmann	Brian	Preserving Minnesota’s Wetlands: Our Resource for Future Medicine	U of MN, Crookston	\$247,000
2021-284	Grinde	Alexis	EAB and Black Ash: Maintaining Forests and Benefits	U of MN, Duluth - NRRRI	\$774,000
2021-291	Weegman	Matt	Factors Influencing Wild Turkey Productivity in Southeast Minnesota	National Wild Turkey Federation	\$809,000
2021-309	Schroeder	Declan	Bee Minnesota – Protect Our Native Bumblebees	U of MN, College of Veterinary Medicine	\$663,000
2021-312	Mukku	Venugopal	Freshwater Sponges and AIS: Engaging Citizen Scientists	U of MN, Crookston	\$500,000
2021-354	Shen	Lian	Modeling Wind Energy Resources and Environment in Minnesota	U of MN, St. Anthony Falls Laboratory	\$318,000
2021-359	Caldwell	Wendy	Uniting Public and Private Sectors to Protect Pollinators	Monarch Joint Venture	\$341,000

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2021-372	Anderson	Pamela	Providing Critical Water Quality Information: Harmful Algal Blooms	Minnesota Pollution Control Agency	\$657,000
2021-378	Skanske	Jennie	Foundational Hydrology Data for Wetland Protection and Restoration	MN DNR, Ecological and Water Resources Division	\$400,000
2021-396	West	Elena	Bioacoustics for Broad-Scale Species Monitoring and Conservation	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$359,000
2021-422	Shaw	Ruth	Healthy Prairies III: Restoring Minnesota's Prairie Plant Diversity	U of MN, College of Biological Sciences	\$531,000
2021-423	Joyce	Michael	Bobcat and Fisher Habitat Use and Interactions	U of MN, Duluth - NRRRI	\$447,000
2021-424	Satyshur	Colleen	Improving Pollinator Conservation by Revealing Habitat Needs	U of MN, College of Biological Sciences	\$614,000
2021-426	Rowe	Erika	Expanding the Minnesota Ecological Monitoring Network	MN DNR, Ecological and Water Resources Division	\$1,587,000
2021-452	Putzier	Paul	County Groundwater Atlas ML2020 Resubmit	MN DNR, Ecological and Water Resources Division	\$1,125,000
				SubTotal	\$34,858,000

A. Foundational Natural Resource Data and Information

H. Small Projects (20 Proposals / \$3,466,000)

2021-019	Fallon	Ann	Does the Herbicide Paraquat Harm Insect Microbial Symbionts?	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$157,000
2021-027	Sherman-Hoehn	Katherine	MI 2021 Contract Agreement Reimbursement	MN DNR, Grants Unit	\$135,000
2021-032	Grinde	Alexis	What's "Bugging" Minnesota's Insect-Eating Birds?	U of MN, Duluth - NRRRI	\$199,000
2021-048	Duplissis	John	Precision Forest Inventory for Aspen and Red Pine	U of MN, Duluth - NRRRI	\$199,000
2021-088	Moen	Ron	Minnesota Mammal Resource Atlas	U of MN, Duluth - NRRRI	\$148,000
2021-112	Drewitz	Matt	Mapping Existing Structural Practices in Vulnerable Agricultural Landscapes	Board of Water and Soil Resources	\$190,000
2021-140	Zajac	Kristy	Redwood County Rim Easement Evaluation and Public Outreach	Redwood Soil & Water Conservation District	\$197,000
2021-201	Clark	Mark	Status of Bigmouth Buffalo Populations in Minnesota	U of MN, Duluth	\$196,000
2021-225	Huberty	Brian	Eyes over Minnesota's Natural Resources	SharedGeo	\$119,000
2021-234	Stanton	Daniel	Moss and Lichens of Minnesota Prairies and Meadows	U of MN, College of Biological Sciences	\$200,000
2021-238	Wettstein	Shannon	Morrison County Performance Drainage and Hydrology Management II	Morrison Soil and Water Conservation District	\$197,000
2021-277	Aukema	Brian	Biocontrol Breakdown in Minnesota's Spruce Budworm-Affected Forests	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$200,000

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2021-289	Frelich	Lee	A Biodiversity Checkup for Minnesota's Big Woods	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$109,000
2021-292	Bracey	Annie	Conserving Black Terns and Forster's Terns in Minnesota	U of MN, Duluth - NRRRI	\$199,000
2021-321	Ponder	Julia	Microbiome in Raptors: A New Tool for Conservation	U of MN, Raptor Center	\$129,000
2021-400	Hahn	Jennifer	Unearthing Soil Health Economics in Southern Minnesota	Minnesota Soil Health Coalition	\$200,000
2021-407	Petersen	Jessica	Tools for Supporting Healthy Ecosystems and Pollinators	MN DNR, Ecological and Water Resources Division	\$198,000
2021-430	Sherman-Hoehn	Katherine	ML 20 Contract Agreement Reimbursement	MN DNR, Grants Unit	\$135,000
2021-437	Quinn	Edward	Enhancing Bat Recovery by Optimizing Artificial Roost Structures	MN DNR, State Parks and Trails Division	\$190,000
2021-457	Windels	Steve	Do Beavers Buffer Against Droughts and Floods?	National Park Service, Voyageurs National Park	\$169,000
				SubTotal	\$3,466,000
B. Water Resources (58 Proposals / \$35,591,000)					
2021-023	Schumann	David	Larval Fishes as Indicators of Lake Ecosystem Change	University of Wisconsin-La Crosse	\$410,000
2021-047	Johnson	Heather	Updating Pesticide Analytical Capabilities to Protect Minnesota Waters	Minnesota Department of Agriculture	\$3,000,000
2021-050	Brady	Valerie	Trout Stream Habitat Restoration Success	U of MN, Duluth - NRRRI	\$375,000
2021-053	Ulrich	Bridget	Protecting Minnesota's Waters using Sustainable Waste Materials	U of MN, Duluth - NRRRI	\$497,000
2021-057	Chun	Chan Lan	Reducing Nutrients and Methane Emissions using Wetland Microbes	U of MN, Duluth - NRRRI	\$334,000
2021-090	Beck	Brian	Leveraging Innovations in Data Analytics for Project Implementation	Minnehaha Creek Watershed District	\$883,000
2021-114	Kang	Peter	Multi-Scale Aquifer Characterization for Successful Aquifer Storage/Recovery	U of MN, St. Anthony Falls Laboratory	\$671,000
2021-121	Behrens	Sebastian	Monitoring Emerging Viruses in Minnesota's Urban Water Cycles	U of MN, College of Biological Sciences	\$489,000
2021-127	Fritz	Charles	Water Storage Project Implementation Framework	International Water Institute	\$290,000
2021-130	Baker	Anna	Sediment-Phosphorus Management in Rainy-Lake of the Woods Basin	US Geological Survey, Upper Midwest Water Science Center	\$515,000
2021-134	Edlund	Mark	Salt Threatens Minnesota Water Quality and Food Webs	Science Museum of Minnesota, St. Croix Watershed Research Station	\$1,174,000
2021-142	Martinovic-Weigelt	Dalma	Refined Petroleum Leaks: Improving Remediation and Risk Assessment	University of St. Thomas	\$340,000

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2021-144	Singer	Randall	Microgeographic Impact of Antibiotics Released from Identified Hotspots	U of MN, College of Veterinary Medicine	\$598,000
2021-160	Ishii	Satoshi	Establishment of Safe Water Reuse	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$362,000
2021-165	Bazurto	Jannell	Microbial Degradation of Formaldehyde to Clean Polluted Waters	U of MN, College of Biological Sciences	\$393,000
2021-174	Gran	Karen	Slope Failures in Minnesota: Drivers, Projections, and Mitigation	U of MN, Duluth	\$396,000
2021-177	Cotner	James	Glyphosate, Phosphorus and Harmful Algal Blooms	U of MN, College of Biological Sciences	\$506,000
2021-190	Hondzo	Miki	Quantitative Risk Assessment of Pathogens in Urban Waters	U of MN, St. Anthony Falls Laboratory	\$499,000
2021-195	Brauman	Kate	Changing Snowmelt Impacts Minnesota Forests, Streams, And Groundwater	U of MN, Institute on the Environment	\$607,000
2021-204	Miao	Yuxin	Developing Smart-N App to Reduce Corn Nitrogen Pollution	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$248,000
2021-205	Jordan	Nicholas	Scaling a Market-Driven Water-Quality Solution for Row-Crop Farming	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$909,000
2021-211	Gulliver	John	Reduction of Environmental Impacts With Road De-Icing Alternatives	U of MN, College of Science and Engineering	\$666,000
2021-227	Rose	Lucy	Seasonal Water Quality Effects of Commercial Peat Harvesting	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$204,000
2021-242	Groten	Joel	USGS Streamstats enhances Sediment Monitoring in Minnesota	US Geological Survey, Upper Midwest Water Science Center	\$300,000
2021-259	Blumentritt	Dylan	Whitewater River Evolution: Sediment Dynamics and Cross-Section Inventory	Minnesota State Colleges and Universities, Winona State University	\$265,000
2021-260	Hall	Leah	Floodplain Reconnection in Southeast Minnesota's Driftless Area	The Nature Conservancy	\$572,000
2021-264	Sattar	Junaed	Automated Weed Management for Herbicide Water Runoff Reduction	U of MN, College of Science and Engineering	\$829,000
2021-265	Lenhart	Christian	Farming for Phosphorus Control at the Field Edge	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$577,000
2021-266	Runck	Bryan	Sustainable Irrigation Management: Expanding a Statewide Web Application	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$1,519,000
2021-279	Watkins	Eric	Optimizing Youth Sports Fields to reduce Environmental Impact	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$957,000
2021-282	Wright	Natasha	Managing Highly Saline Waste from Municipal Water Treatment	U of MN, College of Science and Engineering	\$262,000

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2021-285	Cates	Anna	Developing Cover Crop Systems for Sugarbeet Production	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$331,000
2021-286	Nieber	John	Downscaling Water Storage for Comprehensive Water Resources Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$592,000
2021-303	Griffin	Daniel	Rainfall History Recovered from old Oak Tree Rings	U of MN, College of Liberal Arts	\$332,000
2021-314	Cui	Tianhong	Solar-Powered Pesticide Sensor Network for Water Monitoring	U of MN, College of Science and Engineering	\$660,000
2021-317	Cui	Tianhong	Sensor-Embedded Purification System for Clean Drinking Water	U of MN, College of Science and Engineering	\$536,000
2021-326	Marr	Jeffrey	Assessing Impacts of Boat Waves on Minnesota Lakes	U of MN, St. Anthony Falls Laboratory	\$420,000
2021-331	Noe	Ryan	Comprehensive Identification and Visualization of Sourcewater Protection Opportunities	U of MN, Humphrey School of Public Affairs	\$299,000
2021-346	Ruan	Roger	Treatment of Petrochemical Wastewater using Photocatalysis and Algae	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$559,000
2021-348	Ruan	Roger	Enhanced Thermophilic Anaerobic Digestion of Swine Manure	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$609,000
2021-349	Ruan	Roger	Novel Microalgae Attached Growth for Animal Wastewater Treatment	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$760,000
2021-350	Ruan	Roger	Plastic-Wastes to Fuels and Chemicals through Microwave-Assisted Pyrolysis	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$914,000
2021-352	Ruan	Roger	Nitrogen Fixation using Nano-Photocatalytic Non-Thermal Plasma	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$555,000
2021-355	Shen	Lian	Microplastics in Minnesota Water and Impact on Wildlife	U of MN, St. Anthony Falls Laboratory	\$317,000
2021-358	Schoenfuss	Heiko	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Minnesota State Colleges and Universities, St. Cloud State University	\$493,000
2021-361	Penn	Lee	Microplastics: Transporters of Contaminants in Minnesota Waters	U of MN, College of Science and Engineering	\$426,000
2021-364	LaPara	Timothy	Evaluating Coronavirus and other Microbiological Contamination of Drinking Water Sources from Wastewater	U of MN, College of Science and Engineering	\$699,000
2021-369	Ziegeweid	Jeffrey	Determining How Altered Streamflows Impair Fish and Macroinvertebrates	US Geological Survey, Upper Midwest Water Science Center	\$600,000
2021-376	Lammi	Becky	St. James Pit Water Level Control	City of Aurora	\$305,000
2021-382	St. Lawrence	Mark	Evaluating Landfill Leachate PFAS Reduction Utilizing Engineered Wetlands	St. Louis County	\$895,000
2021-384	Fuchs	Dennis	Long-Term Nitrate Mitigation by Maintaining Profitable Kernza Production	Stearns County Soil and Water Conservation District	\$571,000

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2021-390	Donato	Justin	Antibiotic Resistance and Wastewater Treatment: Problems and Solutions	University of St. Thomas	\$508,000
2021-401	Edlund	Mark	Unprecedented Change Threatens Minnesota's Pristine Lakes	Science Museum of Minnesota, St. Croix Watershed Research Station	\$850,000
2021-403	Keegan	Bill	Innovative Solution for Protecting Minnesota Natural Resources from PFAS Contamination	Dem-Con	\$750,000
2021-409	Olander	Keith	Implementing Hemp Crop Rotation to Improve Water Quality	Minnesota State Colleges and Universities, Central Lakes College	\$700,000
2021-432	Novak	Paige	Technology for Energy-Generating Onsite Industrial Wastewater Treatment	U of MN, College of Science and Engineering	\$475,000
2021-436	Streets	Summer	Developing Strategies to Manage PFAS in Land-Applied Biosolids	Minnesota Pollution Control Agency	\$1,370,000
2021-456	Stapleton	Seth	Expanding Restoration and Promoting Awareness of Native Mussels	Minnesota Zoological Society	\$418,000
				SubTotal	\$35,591,000
B. Water Resources					
H. Small Projects (17 Proposals / \$2,985,000)					
2021-025	Kovalenko	Katya	Does Micro-Pollution Impact Aquatic Food Webs and Birds?	U of MN, Duluth - NRRI	\$175,000
2021-076	Noe	Ryan	Will BMPs be Effective with Increased Precipitation Variability?	U of MN, Humphrey School of Public Affairs	\$63,000
2021-089	Barry	John	Sentinel Springs, Measuring Continuous Groundwater Response and Improvement	MN DNR, Ecological and Water Resources Division	\$183,000
2021-115	Hu	Bo	Novel Nutrient Recovery Process from Wastewater Treatment Plants	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$200,000
2021-128	Ulrich	Jason	Resilience and Increased Intense Rain in Minnesota Watersheds	Science Museum of Minnesota, St. Croix Watershed Research Station	\$189,000
2021-158	Dieterman	Doug	Evaluating Stream Habitat Projects in Southeast Minnesota	MN DNR, Fish and Wildlife Division	\$197,000
2021-170	Xiong	Boya	Minimizing Plastic Pollution through Prediction of Nano/Microplastic Generation	U of MN, College of Science and Engineering	\$200,000
2021-184	Hondzo	Miki	Algal Toxicity Detection and Mitigation in Minnesota Waters	U of MN, St. Anthony Falls Laboratory	\$199,000
2021-189	Musser	Kimberly	Ag-Urban Partnership Pilot: Accelerating Action in Priority Watersheds	Minnesota State Colleges and Universities, Minnesota State University Mankato	\$199,000
2021-216	Brigham	Mark	White Iron Chain of Lakes: Baseline Trace Metals	US Geological Survey, Upper Midwest Water Science Center	\$117,000
2021-237	Fixen	Kathryn	Converting Toxic Compounds to Fuels Using Solar Energy	U of MN, College of Biological Sciences	\$171,000

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2021-258	Wilson	Melissa	Manure Testing for Better Management and Clean Water	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$200,000
2021-267	Capel	Paul	Optimization of Water-Quality Monitoring in Surface Waters	U of MN, College of Science and Engineering	\$147,000
2021-301	Babcock	Laura	Expanding Protection of Minnesota Water through Industrial Conservation	U of MN, School of Public Health	\$181,000
2021-304	Barney	Brett	Minimizing Agricultural Impacts through Biological Nitrogen Fixation Alternatives	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$196,000
2021-379	Downing	John	Understanding and Fixing Excess Lake Oxygen Depletion	U of MN, Duluth	\$171,000
2021-381	Wagner	Margaret	Nitrate Testing and Education for Private Well Owners	Minnesota Department of Agriculture	\$197,000
				SubTotal	\$2,985,000
C. Environmental Education (26 Proposals / \$12,867,000)					
2021-006	Remucal	David	Promoting Minnesota Conservation through Classroom Plant Science Research	U of MN, Landscape Arboretum	\$480,000
2021-041	Thompson	Seth	Connecting Minnesotans to Water through Environmental Education	U of MN, College of Biological Sciences	\$287,000
2021-042	Walz	Shannon	Increasing Outdoor Learning for Young Minnesotans	Wolf Ridge Environmental Learning Center	\$450,000
2021-086	Halvorson	Joel	Boreal Observatory at Chik-Wauk on the Gunflint	Gunflint Trail Historical Society	\$545,000
2021-100	Locke	Christina	MN Backyard Science: Home-Based Environmental Education and Conservation	U of MN, Humphrey School of Public Affairs	\$502,000
2021-111	Wolf	Tiffany	Engaging Culturally-Diverse Hunting Communities on Chronic Wasting Disease	U of MN, College of Veterinary Medicine	\$288,000
2021-131	Evans	Elaine	Pollinator Education in the Science Classroom	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$430,000
2021-132	Edmiston	Julie	Minnesota Freshwater Quest: Environmental Education for 20,000 Youth	Wilderness Inquiry	\$932,000
2021-141	Schmitt	Lee	Esteem (Earth Science Teachers Environmental Education Matters)	Minnesota Science Teachers Association	\$582,000
2021-146	Wood	Bryan	Providing K-12 Residential Environmental Learning Experiences	Osprey Wilds Environmental Learning Center	\$400,000
2021-175	Blair	Robert	Minnesota Master Naturalist: Nature for New Minnesotans	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$345,000
2021-186	Hausman Rhode	Christina	The Voyageurs Classroom Initiative	Voyageurs National Park Association	\$409,000
2021-219	Thompson	Seth	Promoting Environmental Conservation through Storytelling	U of MN, College of Biological Sciences	\$392,000

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2021-240	Adler	Trina	Engaging Diverse Low-Income Residents with Minnesota's Parks	U of MN, Extension Center for Family Development	\$568,000
2021-255	Dhakal	Narayan	Cross Cultural Environmental Education	Diversity Intelligence in Climate Action	\$420,000
2021-300	Lord	Chris	Changing Yards and Minds: Overcoming Barriers to Ecoscaping	Metro Conservation Districts	\$546,000
2021-320	Bloome	Katie	Restoring Land, Reviving Heritage: Conservation through Indigenous Culture	Belwin Conservancy	\$494,000
2021-335	Papanikolopoulos	Nikolaos	Water Quality and Robots: Experientially Educating Minnesotan Youth	U of MN, College of Science and Engineering	\$344,000
2021-341	Lenczewski	John	Fostering Water Stewardship through Hands-On Learning	Minnesota Trout Unlimited	\$654,000
2021-370	Reese	Luke	Jay C. Hormel Nature Center Supplemental Teaching Staff	City of Austin	\$275,000
2021-385	Simer	Kurt	375 Underserved Youth Learn Minnesota Ecosystems by Canoe	YMCA of the Greater Twin Cities	\$375,000
2021-386	Burns	Katie	Bird Academy: Conservation for Kids	Audubon Minnesota	\$291,000
2021-405	Poppleton	Kristen	TeachScience: Schools and Communities as STEM Living Laboratories	Climate Generation: A Will Steger Legacy	\$369,000
2021-435	Loon	Deborah	Mentoring the Next Generation of Conservation Professionals	Minnesota Valley National Wildlife Refuge Trust Inc	\$757,000
2021-450	Edmiston	Julie	Minnesota Freshwater Quest: Environmental Education on State Waterways	Wilderness Inquiry	\$1,432,000
2021-459	Dorn	Cindy	Statewide Environmental Education via Public Television Outdoor Series	Pioneer Public Television	\$300,000
				SubTotal	\$12,867,000
C. Environmental Education					
H. Small Projects (17 Proposals / \$2,590,000)					
2021-026	Donahue	Patrick	Off-Site Construction Technology Portal	U of MN, Duluth - NRRI	\$197,000
2021-085	Cadieux	Valentine	Ecosystem Benefits from Urban Agriculture	Hamline University	\$200,000
2021-116	Furuseth	Lee	Water: Keep It Fresh	Headwaters Science Center	\$86,000
2021-147	Kalnicky	Emily	Driving Conservation Behavior for Mussels and Water Quality	Minnesota Zoological Society	\$191,000
2021-157	Jensen	Marissa	Minnesota Conservation Outreach & Education	Pheasants Forever Inc	\$68,000
2021-171	Becker	Beth	Expansion of Ymca Mobile Day Camp	YMCA of the Greater Twin Cities	\$195,000
2021-214	Huberty	Brian	Emergency Location Markers for Minnesota's Trails, Parks & Landings	SharedGeo	\$130,000

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2021-224	Daub	Betsy	High School River Bluff Pollinator Habitat Creation	Friends of the Mississippi River	\$28,000
2021-226	Watkins	Eric	Smart Lawns: Data-Driven Lawn Care Information for Homeowners	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$200,000
2021-262	Schultz	Peter	The Longspur Prairie Fund Urban Prairie Learning Lab	The Longspur Prairie Fund	\$82,000
2021-311	Mercer-Taylor	Elizabeth	Empowering Youth to become 21st Century Energy Leaders	U of MN, Institute on the Environment	\$200,000
2021-323	Ponder	Julia	Expanding Access to Environmental Education for Underserved Communities	U of MN, Raptor Center	\$178,000
2021-374	Foster	Shelli-Kae	Yes! Students take on Water Quality Challenge II	Prairie Woods Environmental Learning Center	\$199,000
2021-389	McCoy	Casey	Firewise in the Classroom	MN DNR, Forestry Division	\$155,000
2021-391	Pulscher	MaryLynn	Bioblitz Urban Parks: Engaging Community in Scientific Efforts	Minneapolis Parks and Recreation Board	\$198,000
2021-414	Montgomery	Maggie	Engaging Minnesotans with Phenology: Radio, Podcasts, Citizen Science	Northern Community Radio, Inc	\$198,000
2021-429	Sogard	Ray	Sportsmen's Training and Developmental Learning Center	Minnesota Forest Zone Trappers Association	\$85,000
				SubTotal	\$2,590,000
D. Aquatic and Terrestrial Invasive Species (10 Proposals / \$20,698,000)					
2021-162	Wettstein	Shannon	Oak Wilt Suppression at the Northern Edge II	Morrison Soil and Water Conservation District	\$498,000
2021-164	Krischik	Vera	Biocontrol of Bee Lawns and Parklands	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$500,000
2021-188	Phelps	Nicholas	Building Knowledge and Capacity for AIS Solutions	U of MN, MAISRC	\$5,000,000
2021-217	Sorensen	Peter	Evaluating Minnesota's Last Best Chance to Stop Carp	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$499,000
2021-313	Forester	Jeff	Stop Starry Invasion - Community Invasive Species Containment	Minnesota Lakes and Rivers Advocates	\$1,676,000
2021-383	James	John	Balancing Aquatic Plant Communities for Recreation and Conservation	Fish and Waters Conservation Fund	\$569,000
2021-425	Koop	Heather	Minnesota Invasive Terrestrial Plants and Pests Center, Ph.5	U of MN, MITPPC	\$5,000,000
2021-427	Nerbonne	Brian	Applying New Tools and Techniques Against Invasive Carp	MN DNR, Fish and Wildlife Division	\$577,000
2021-431	McClannahan	Valerie	Protect Community Forests By Managing Ash For EAB	MN DNR, Forestry Division	\$5,930,000
2021-433	Salomon	Christine	White Nose Bat Syndrome Biological Control: Phase 3	U of MN, College of Pharmacy	\$449,000
				SubTotal	\$20,698,000

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Proposal ID	Last Name	First Name	Title	Organization	Funding Total
D. Aquatic and Terrestrial Invasive Species					
H. Small Projects (5 Proposals / \$641,000)					
2021-017	Wersal	Ryan	Starch Allocation Patterns of Starry Stonewort (Nitellopsis Obtusa) Harvested from Lake Koronis, MN	Minnesota State Colleges and Universities, Minnesota State University Mankato	\$101,000
2021-091	Anderson	Mike	Long-Term Efficacy of Invasive Removal in Floodplain Forests	Macalester College	\$25,000
2021-268	Hammes	Mary	Mississippi River Crew for Forest Resilience	Mississippi Park Connection	\$199,000
2021-293	Brady	Valerie	How Effective and Protective are AIS Removal Methods?	U of MN, Duluth - NRRRI	\$119,000
2021-449	Edlund	Mark	Invasive Rock Snot Threatens North Shore Streams	Science Museum of Minnesota, St. Croix Watershed Research Station	\$197,000
				SubTotal	\$641,000
E. Air Quality, Climate Change, and Renewable Energy (22 Proposals / \$16,339,000)					
2021-010	Mwesigye	Aggrey	Enhanced Thermo-Active Foundations for Space Heating in Minnesota	U of MN, Duluth	\$367,000
2021-167	Kortshagen	Uwe	Solar Windows: Combining Agriculture and Photovoltaics	U of MN, College of Science and Engineering	\$280,000
2021-169	Herrmann	Bryan	Storing Renewable Energy in Flow-Battery for Grid Use	U of MN, Morris	\$3,210,000
2021-191	Heins	Bradley	Agrivoltaics to Improve the Environment and Farm Resiliency	U of MN, WCROC	\$861,000
2021-196	Swanson	Jacob	Electricity Generation from Glycerol - Minnesota Biodiesel Waste	Minnesota State Colleges and Universities, Minnesota State University Mankato	\$679,000
2021-241	Spigarelli	Brett	Foundational Data for Sequestering Co2 Using Minnesota Minerals	U of MN, Duluth - NRRRI	\$353,000
2021-263	Gutknecht	Jessica	The Carbon Sequestration Potential of a Perennial Grain	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$219,000
2021-290	Yang	Suo	Efficient Production and Clean Combustion of Renewable Biofuels	U of MN, College of Science and Engineering	\$681,000
2021-294	Feist	Christopher	Behavioral Response of Bald and Golden Eagles to Acoustic Stimuli	U of MN, St. Anthony Falls Laboratory	\$307,000
2021-305	Xiong	Boya	Reducing Plastic Waste by Innovating Waste-To-Energy Conversion Technology	U of MN, College of Science and Engineering	\$530,000
2021-315	Cortus	Erin	Greenhouse Gas Sampling Approaches for Minnesota Livestock Farms	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$294,000

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2021-318	Simon	Terrence	Efficient Filter and Sensor for Organic PAH Compounds	U of MN, College of Science and Engineering	\$275,000
2021-336	Chan	Gabriel	Distributed Energy Storage Partnerships with Municipal and Cooperative Utilities	U of MN, Humphrey School of Public Affairs	\$364,000
2021-344	Thomas	Steve	Create Jobs Statewide by Diverting Materials from Landfills	Better Futures Minnesota	\$2,992,000
2021-345	Ruan	Roger	Treatment of Organic Medical and Covid-19 Contaminated Wastes	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$910,000
2021-347	Ruan	Roger	Renewable and Green Polymers from Pennycress	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$559,000
2021-351	Ruan	Roger	Disinfect Airborne-Pathogens and Contaminants in Animal Production Facilities	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$754,000
2021-387	Ruan	Roger	Value Added Treatment of Sewage Sludge	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$910,000
2021-392	Dry	Carolyn	A Novel Co2-Reducing Cement made from Minnesota Wastes	Designs by Natural Processes, Inc	\$290,000
2021-394	Ranade	Aditya	Assessing Wind Curtailment Reduction Potential Via Hydrogen Production	Aerio Technologies	\$751,000
2021-398	Hagel	Tom	Cleaner Air for Park Events and Disaster Resilience	City of St. Paul	\$360,000
2021-402	Kedward	Jennifer	Strengthening Minnesota's Reuse Economy to Conserve Natural Resources	ReUse Minnesota	\$393,000
				SubTotal	\$16,339,000
E. Air Quality, Climate Change, and Renewable Energy					
H. Small Projects (13 Proposals / \$1,960,000)					
2021-044	Barry	Brian	Bringing Minnesota Farmers into the Low-Carbon Economy	U of MN, Duluth - NRRRI	\$176,000
2021-098	Hu	Bo	Biomass Inventory for Minnesota Renewable Natural Gas Production	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$200,000
2021-135	McFarland	Ashley	Climate Mitigation through Improved Forest Understory Health	Dovetail Partners Inc	\$179,000
2021-193	Dahlen	Reta	Restoration of Riverside Park	City of Long Prairie	\$156,000
2021-199	Swanberg	Kevin	Twin Ports Air Quality Monitoring and Education Project	Twin Ports Action Alliance	\$30,000
2021-202	Shaffer	David	Studying Solar Panels' Impact on Wetland Quality	Minnesota Solar Energy Industries Project	\$199,000
2021-239	O'Keefe	Pete	Increasing Recycling of Building Materials, Supplies, Home Goods	Twin Cities Habitat for Humanity, Inc	\$60,000
2021-261	Costa	Kyle	Increasing Efficiency of Methane Digesters	U of MN, College of Biological Sciences	\$148,000

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2021-269	Twine	Tracy	Reducing Urban Heat through Reflective Roofs	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$165,000
2021-281	Guala	Michele	Protecting Stream Banks Producing Energy	U of MN, St. Anthony Falls Laboratory	\$198,000
2021-298	Sarkanen	Simo	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$196,000
2021-360	Yamin	Mohammad	Sustainable Bricks using Minnesota Clay and Recycled Aggregate	Minnesota State Colleges and Universities, Minnesota State University Mankato	\$123,000
2021-448	Sosnowchik	Rachel	Diverting Unsold Food from Landfills, Reducing Greenhouse Gases	Second Harvest Heartland	\$130,000
				SubTotal	\$1,960,000
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (37 Proposals / \$25,637,000)					
2021-007	Christenson	Scott	South Central Minnesota Rock Berm Fish Barriers	State Line Lake Restoration Inc	\$855,000
2021-022	Barrick	Melissa	Camp Ripley Sentinel Landscape Forest Restoration and Enhancements	Crow Wing Soil and Water Conservation District	\$975,000
2021-039	Davis	Mike	Restoring Mussels in Streams and Lakes - Continuation	MN DNR, Ecological and Water Resources Division	\$825,000
2021-058	Tucker	Rebecca	Pollinator Central II: Habitat Improvement with Community Monitoring	Great River Greening	\$742,000
2021-059	Windmuller-Campione	Marcella	Maximizing Economic and Ecological Benefits of Forest Management	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$650,000
2021-065	Johnson	Nathan	Phase 2 - Prescribed-Fire Management for Roadside Prairies	Minnesota Department of Transportation	\$255,000
2021-094	Pederson	Eric	Pollinator Habitat Study for Closed Landfill Program	Minnesota Pollution Control Agency	\$300,000
2021-097	Weiss	Eric	Minnesota Green Schoolyards	The Trust for Public Land	\$1,997,000
2021-139	Tucker	Rebecca	Pollinator Central: Habitat Improvement with Citizen Monitoring	Great River Greening	\$981,000
2021-155	Chapman	Eric	Rural-Urban Partnerships to Advance Conservation Farming with Technology	University of St. Thomas	\$548,000
2021-161	Magner	Joe	Threshold Resiliency with Increased Precipitation Uncertainty	U of MN, College of Science and Engineering	\$1,899,000
2021-180	Hrubes	Jeff	Carbon Sequestration and Climate Resiliency using Forest Management	Board of Water and Soil Resources	\$615,000
2021-182	Hogan	Christopher	Minnesota Center for Agricultural Spray Drift Reduction	U of MN, College of Science and Engineering	\$1,049,000

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2021-212	Gordon	Riley	Reducing Plastic Pollution with Biodegradable Erosion Control Products	Agricultural Utilization Research Institute	\$227,000
2021-213	Carson	Michael	Forests, Wildlife & Climate Change: Proactive Landscape Designs	U of MN, North Central Research and Outreach Center	\$404,000
2021-223	Ebtehaj	Ardeshir	Remote Sensing and Super-Resolution Imaging of Microplastics	U of MN, St. Anthony Falls Laboratory	\$364,000
2021-231	Daub	Betsy	Urban Pollinator and Native American Cultural Site Restoration	Friends of the Mississippi River	\$250,000
2021-270	Labuz	Joseph	A Safety Rating System of Mining Waste Storage in Northern Minnesota	U of MN, College of Science and Engineering	\$390,000
2021-274	Ferrington	Leonard	Winter Dynamics of Vulnerable Trout Streams: Central Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$520,000
2021-280	Wold	Scott	Economic and Ecological Benefits of Soil Health	Redwood Soil & Water Conservation District	\$339,000
2021-283	Barney	Brett	Engineered Solutions to Remove Nitrates from Contaminated Waters	U of MN, Twin Cities	\$234,000
2021-295	Arvidson	Adam	Kenilworth Channel Riparian Restoration and Enhancement	Minneapolis Parks and Recreation Board	\$930,000
2021-328	Weegman	Matt	Restoring Oak Forests for Wildlife in Southeast Minnesota	National Wild Turkey Federation	\$661,000
2021-337	Shaw	Dan	Lawns to Legumes Program Phase 2	Board of Water and Soil Resources	\$1,389,000
2021-340	Arvidson	Adam	Bohemian Flats Savanna Restoration	Minneapolis Parks and Recreation Board	\$424,000
2021-357	Griffis	Timothy	Quantifying Environmental Benefits of Peatland Restoration in Minnesota	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$742,000
2021-375	Lewanski	Tom	Reintroduction of Bison to Spring Lake Park Reserve	Dakota County	\$659,000
2021-377	Tuominen	Todd	Elm Creek Habitat Restoration Final Phase	City of Champlin	\$613,000
2021-397	Lenczewski	John	Creating Prioritized Plan for Restoring the Stewart River Watershed	Minnesota Trout Unlimited	\$298,000
2021-416	Caneff	Denny	A Showcase for Resource-Sensitive Trail Construction	Superior Hiking Trail Association	\$450,000
2021-421	Barry	Brian	Protecting Minnesota Waters with Biodegradable, Controlled-Release Fertilizers	U of MN, Duluth - NRRI	\$260,000
2021-438	Arvidson	Adam	Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction	Minneapolis Parks and Recreation Board	\$2,538,000
2021-439	Shaw	Dan	Pollinator & Beneficial Insect Strategic Habitat Program	Board of Water and Soil Resources	\$780,000
2021-441	Drotts	Gary	Minnesota Hunter Walking Trails, Public Land Recreational Access	Ruffed Grouse Society	\$300,000

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2021-447	Tuominen	Todd	Elm Creek Habitat Restoration Phase IV	City of Champlin	\$501,000
2021-455	Beebe	Andrew	Habitat Associations of Mississippi Bottomland Forest Marsh Birds	Audubon Minnesota	\$275,000
2021-461	Aukema	Brian	Eastern Larch Beetle is Devastating Minnesota Tamarack Forests	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$398,000
				SubTotal	\$25,637,000
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat					
H. Small Projects (18 Proposals / \$3,089,000)					
2021-020	Elston	Bob	Sleepy Eye Lake Reclamation	Board of Water and Soil Resources	\$120,000
2021-062	Remucal	David	Preserving Minnesota's only Ball Cactus Population	U of MN, Landscape Arboretum	\$103,000
2021-068	Kerski	Michael	Shakopee Riverfront Habitat Restoration and Education Project	City of Shakopee	\$200,000
2021-078	Taylor	Carrie	Developing a Rare Plant Rescue Program for Minnesota	Anoka Conservation District	\$199,000
2021-084	Sheppard	Kevin	Restoring Upland Forests for Birds	American Bird Conservancy, Great Lakes Program	\$193,000
2021-117	Jennings	Carrie	Water, Wildlife and Weather Friendly Labeling Pilot Program	Freshwater Society	\$195,000
2021-137	Caneff	Denny	Plumbing the Muddy Depths of Superior Hiking Trail	Superior Hiking Trail Association	\$187,000
2021-229	Gabrielson	Sara	Woodcrest Trail Expansion and Prairie Restoration	Country Manor Foundation	\$92,000
2021-245	Meschke	Linda	Improving Landscape Ecological Value with Hazelnuts	Rural Advantage	\$161,000
2021-288	Schrank	Amy	Increase Golden Shiner Production to Protect Aquatic Communities	U of MN, Duluth - Sea Grant	\$194,000
2021-297	Montgomery	Rebecca	Prescribed Burning for Brushland-Dependent Species-Phase II	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$147,000
2021-302	Arvidson	Adam	Mississippi Flyway Habitat Fingers	Minneapolis Parks and Recreation Board	\$171,000
2021-308	Cariveau	Daniel	Creating Cost-Effective Forage and Management Actions for Pollinators	U of MN, College of Food, Agricultural and Natural Resource Sciences	\$198,000
2021-319	Cui	Tianhong	Surface Water Purification System Powered by Renewable Energy	U of MN, College of Science and Engineering	\$200,000
2021-322	Vlaming	Jonathan	Shoreline Stabilization, Fishing, ADA Improvements at Silverwood Park	Three Rivers Park District	\$200,000
2021-343	Cui	Tianhong	Small, Cheap, and Fast Nitrobenzene Detector for Water	U of MN, College of Science and Engineering	\$200,000
2021-356	Shen	Lian	Help MPCP by Understanding Seeds and Pollens Dispersion	U of MN, St. Anthony Falls Laboratory	\$199,000

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2021-408	Daub	Betsy	Pollinator Habitat Creation along the Urban Mississippi River	Friends of the Mississippi River	\$130,000
				SubTotal	\$3,089,000
G. Land Acquisition for Habitat and Recreation (39 Proposals / \$78,620,000)					
2021-012	Yavarow	Matthew	Perham to Pelican Rapids Regional Trail (McDonald Segment)	Otter Tail County	\$2,245,000
2021-013	Cammilleri	Kenneth	Gateway State Trail	City of Scandia	\$4,295,000
2021-021	Hayes	Dillon	Soo Line Trail Trestle Bridge	Mille Lacs County	\$725,000
2021-028	Manzoline	Robert	Mesabi Trail CSAH 88 To Ely	St. Louis & Lake Counties Regional Railroad Authority	\$2,200,000
2021-043	Mularie	Audrey	Local Parks, Trails and Natural Areas Grant Programs	MN DNR, Grants Unit	\$3,000,000
2021-049	Lee	Jessica	Metropolitan Regional Parks System Land Acquisition- Phase 7	Metropolitan Council	\$3,000,000
2021-069	Schultz	Todd	Sauk Rapids Rapids Project Lions Park	City of Sauk Rapids	\$545,000
2021-092	Chanski	David	City of Brainerd - Mississippi Landing Trailhead	City of Brainerd	\$3,800,000
2021-093	Welle	Ron	Brooten Land Acquisition	Midwest Outdoors Unlimited	\$950,000
2021-105	Schulte	Judy	Native Prairie Stewardship & Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	\$2,100,000
2021-109	Bloom	Katie	Moose Lake - Trunk Highway 73 Trail	City of Moose Lake	\$330,000
2021-145	Wood	Bryan	Preserving Grindstone Lake's Shoreline: McConnell Property Acquisition	Osprey Wilds Environmental Learning Center	\$640,000
2021-151	Roske	Molly	SNA Acquisition, Restoration, Citizen-Science and Outreach	MN DNR, Ecological and Water Resources Division	\$4,760,000
2021-154	Phillips	Courtney	Precision Acquisition for Restoration, Groundwater Recharge and Habitat.	Shell Rock River Watershed District	\$549,000
2021-221	Roske	Molly	DNR Scientific and Natural Areas (ML20 Resubmit)	MN DNR - Ecological and Water Resources Division	\$3,000,000
2021-310	Terrill	Tim	Whiskey Creek & Mississippi River Water Quality/Habitat/Recreation	Mississippi Headwaters Board	\$500,000
2021-324	Gautreaux	Sherril	Ranier/Safe Harbor Transient Dock on Rainy Lake	City of Ranier	\$762,000
2021-325	Olson	Neil	Veterans on the Lake	Veterans on the Lake	\$650,000
2021-329	Pohlman	JoAnn	Voyageur National Park Crane Lake Visitors Center Project	Town of Crane Lake	\$3,600,000
2021-330	Melin	Kaycee	Brookston Campground, Boat Launch & Outdoor Recreational Facility Final	City of Brookston	\$500,000
2021-332	Burich	Rebecca	Moose/Seven Beaver Multi-Use Trail Upgrade	City of Hoyt Lakes	\$1,200,000

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2021-338	Arvidson	Adam	Above the Falls Regional Park Acquisition and Restoration	Minneapolis Parks and Recreation Board	\$1,267,000
2021-339	See-Benes	Britt	Silver Lake Trail Improvement Project	City of Virginia	\$1,428,000
2021-362	Skaar	Kent	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	\$6,000,000
2021-363	Vollbrecht	Lisa	Highbanks Ravine Bat Habernaculum Project	City of St. Cloud	\$1,100,000
2021-371	Skaar	Kent	State Parks and State Trails In-Holdings	MN DNR, State Parks and Trails Division	\$3,725,000
2021-380	Stewart	Nancy	Accessible Fishing Piers and Shore Fishing Areas	MN DNR, State Parks and Trails Division	\$400,000
2021-404	Dahl	Bill	Mesabi Trail Mckinley to Biwabik	St. Louis & Lake Counties Regional Railroad Authority	\$1,000,000
2021-419	Bissonette	Cathy	Birch Lake Recreation Area Campground	City of Babbitt	\$750,000
2021-420	Pohlman	JoAnn	Crane Lake Voyageurs National Park Campground & Visitors Center	Town of Crane Lake	\$3,600,000
2021-428	Mooney	Kevin	Rocori Trail Phase 3	Rocori Trail Construction Board	\$1,260,000
2021-434	Simonson	Ryan	Crow Wing County Community Natural Area Acquisition	Crow Wing County	\$405,000
2021-442	Skaar	Kent	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	\$994,000
2021-443	Skaar	Kent	Minnesota State Parks and State Trails Inholdings	MN DNR, State Parks and Trails Division	\$3,500,000
2021-444	Mularie	Audrey	Local Parks, Trails and Natural Areas Grant Programs	MN DNR, Grants Unit	\$2,400,000
2021-445	Schulte	Judy	2020-Private Native Prairie Conservation through Native Prairie Bank	MN DNR, Ecological and Water Resources Division	\$2,000,000
2021-446	Forbes	DJ	Turning Back to Rivers: Environmental and Recreational Protection	The Trust for Public Land	\$3,804,000
2021-453	Yavarow	Matthew	Perham to Pelican Rapids Regional Trail (West Segment)	Otter Tail County	\$2,836,000
2021-458	Monson	Kjersti	Early Enhancements: Upper St. Anthony Falls Lock	Friends of the Lock and Dam	\$2,800,000
				SubTotal	\$78,620,000
G. Land Acquisition for Habitat and Recreation					
H. Small Projects (5 Proposals / \$791,000)					
2021-029	Bartosh	Jeremy	SW MN Single Track Trail	Jackson County	\$190,000
2021-036	Aro	Matthew	A Second Life for Urban Ash Trees	U of MN, Duluth - NRRRI	\$156,000
2021-038	Langowski	Harold	Ely Trezona Trail / Pioneer Mine Site Restoration	City of Ely	\$185,000
2021-222	Brand	Jefferson	Lake Brophy Trail Expansion	Big Ole Bike Club	\$100,000
2021-406	Williams	Scott	Chippewa County Acquisition, Recreation and Education	Chippewa County	\$160,000
				SubTotal	\$791,000