

2019 Environment and Natural Resources Trust Fund Proposals Selected to Present

For the FY 2020 and FY 2021 biennium (July 1, 2019 - June 30, 2021), approximately \$59 million* is available each year for funding from the Environment and Natural Resources Trust Fund. As of April 11, 2018, the Legislative-Citizen Commission on Minnesota Resources (LCCMR) received 273 proposals requesting a total of approximately \$191 million. This RFP process is for funding beginning July 1, 2019.

LCCMR reviews and evaluates all proposals against their 10 adopted evaluation criteria. On June 5, members selected a subset of 110 high-ranking proposals to invite for presentation before the LCCMR on June 19, 20, 21, 26 and 27 in order to receive further consideration. On July 17-18, LCCMR then makes final selection and funding allocation decisions. These selected projects are presented to the 2019 Minnesota Legislature as the official LCCMR recommendations for spending from the Environment and Natural Resources Trust Fund.

*to be revised June 30, 2018

ENRTF ID #	Last Name	First Name	Title	Organization	\$ Requested
A. Foundational Natural Resource Data and Information (SELECTED TO PRESENT: 17 Proposals / Subtotal = \$15,768,908)					
001-A	Carlson	Bruce	Minnesota Biological Survey – Continuation	MN DNR	\$2,987,000
002-A	Lusardi	Barbara	Minnesota Geological Survey Geologic Atlases for Water Resource Management	U of MN - MN Geological Survey	\$4,121,625
003-A	Davis	Mike	Restoring Native Mussels in Streams and Lakes	MN DNR	\$735,981
004-A	Texler	Hannah	Minnesotas Ecological Monitoring Network - Continuation	MN DNR	\$696,004
005-A	Etterson	Matthew	Mercury and PFAS Risk to Minnesota Raptors	Hawk Ridge Bird Observatory	\$282,093
006-A	Johnson	Lucinda	Optimizing Minnesotas Forest Products and Ecosystem Services	U of MN - Duluth	\$789,649
007-A	Nordquist	Gerda	Wild Bee Surveys in Minnesotas Forest Habitats	MN DNR	\$636,044
008-A	Sindt	Tony	Phase-II: Enhancing Understanding of the Minnesota River Ecosystem	MN DNR	\$598,241
010-A	Kloiber	Steve	A Better System for Wetland Inventory Data Stewardship	MN DNR	\$291,000
012-A	Reavie	Euan	Conserving Lake Trout in Minnesota	U of MN - Duluth	\$782,549

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014-A	Andersen	David	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	\$414,372
015-A	Nordquist	Gerda	Minnesotas Imperiled Bats - Protecting the Survivors	MN DNR	\$208,331
016-A	Ponder	Julia	Spruce Grouse: Sentinels for Boreal Forest Connectivity	U of MN	\$361,630
018-A	Wolf	Tiffany	Next Step in Helping Minnesota's Moose: Understand Brainworm Transmission to Find Solutions	U of MN	\$434,186
021-A	Roy	Charlotte	Grasslands, Grazing, and Greater Prairie-chickens: Testing Trade-offs	MN DNR	\$392,065
025-A	McCann	Nicholas	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	\$657,159
027-A	Arends	Heather	Accelerated Aggregate Resource Mapping	MN DNR	\$1,380,979
A. Foundational Natural Resource Data and Information					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 8 Proposals / Subtotal = \$1,380,754)					
028-AH	Shaw	Dan	Minnesota Restoration Mapping and Pollinator Protection	Minnesota Board of Water and Soil Resources	\$199,898
029-AH	Smith	Erik	Protecting Minnesota's Cold-Water Fish into the Future	USGS	\$168,760
030-AH	Moen	Ron	City Bats and Country Bats - Whats the difference?	U of MN - Duluth	\$200,000
031-AH	Hansen	Gretchen	Walleye Habitat Status to Guide and Prioritize Management	MN DNR	\$198,784
032-AH	Moen	Ron	Artificial Den Boxes for Fishers	U of MN - Duluth	\$190,000
034-AH	Andersen	David	Red-headed Woodpeckers: Indicators of Oak Savanna Health	U of MN	\$171,000
035-AH	Hall	Kristin	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	\$124,500

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038-AH	Bump	Joseph	Aquatic Habitats for Moose and Enhanced Lake Foodwebs	U of MN	\$199,600
039-AH	Kipfmueller	Kurt	Foundational Ecological Information for Tribal Fire Management	U of MN	\$182,860
046-AH	Veraguth	Patrick	Improving Statewide GIS Data by Restoring the PLS	Minnesota Association of County Surveyors	\$135,250
B. Water Resources (SELECTED TO PRESENT: 22 Proposals / Subtotal = \$8,280,509)					
048-B	Arnold	William	Neonicotinoid Insecticides: Occurrence And Influence on Algal Blooms	U of MN	\$356,000
049-B	Arnold	William	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	\$415,300
050-B	Babcock	Laura	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	\$278,000
051-B	Schreiner	Kathryn	Quantifying Microplastics in Minnesotas Inland Aquatic Ecosystems	U of MN - Duluth	\$277,419
052-B	Novak	Paige	Outstate Wastewater: Improving Nitrogen Removal in Treatment Ponds	U of MN	\$402,033
053-B	Novak	Paige	Stimulating Bacteria to Degrade Chlorinated Industrial Contaminants	U of MN	\$252,884
054-B	Hozalski	Raymond	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	\$345,778
055-B	Simcik	Matt	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	\$345,877
057-B	Elias	Mikael	Harnessing Minnesota's Biological Resources for Cleaner Waters	U of MN	\$388,000
058-B	Kyser	Scott	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	\$297,000
061-B	Hillmyer	Marc	Membranes for Removing Toxic Metals from Mining Wastewater	U of MN	\$449,203
062-B	Hu	Bo	Phytoremediation for Extracting Deicing Salt from Roadside Soils	U of MN	\$360,231

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063-B	Valentas	Kenneth	Removing Phosphorous from Drantile Water Discharge-Phase II	U of MN	\$398,000
064-B	Barney	Brett	Transformation of Plastic Waste into a Valued Resource	U of MN	\$308,000
066-B	Norris	Doug	Improving Wetland and Groundwater Management Through Hydrologic Monitoring	MN DNR	\$573,661
067-B	Gulliver	John	Eliminating Nitrate in Drain Tile Runoff	U of MN	\$398,623
072-B	Fuchs	Dennis	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation	\$448,905
076-B	Olander	Keith	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Center	\$741,184
077-B	Nieber	John	Setting Realistic Nitrate BMP Goals in Southeast Minnesota	U of MN	\$444,000
082-B	Smith	Tim	Evaluating Long-Term Success of Wetland Hydrology Restoration	Board of Water and Soil Resources	\$294,662
085-B	Almendinger	James	The Future of Groundwater Supply	Science Museum of Minnesota	\$280,000
097-B	Goehring	Julie	Reducing Nitrate Harm in the Red River Basin	Red River Basin	\$225,749
B. Water Resources					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 6 Proposals / Subtotal = \$909,430)					
100-BH	Ulrich	Jason	Repurposing Unprofitable Cropland: Water and Wildlife's Silver Bullet?	Science Museum of Minnesota, St. Croix	\$199,618
101-BH	Chun	Chanlan	Evaluating Locally-Sourced Sanding Materials for Road Salt Reduction	U of MN - Duluth	\$162,445
102-BH	Putzier	Paul	Minnesota Spring Inventory Final Phase	MN DNR	\$71,000

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103-BH	Cai	Meijun	Using Local Iron Byproducts to Remove Surface-water Phosphorus	U of MN - Duluth	\$195,216
106-BH	Dickhart	Andrew	Citizen-Aided Carp Management: Overcoming Roadblocks to Lake Restoration	Carver County Water Management	\$106,151
116-BH	Nemmers	Troy	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	\$175,000
C. Environmental Education (SELECTED TO PRESENT: 6 Proposals / Subtotal = \$3,486,094)					
119-C	Hamilton	Patrick	Water Lab: Engaging Minnesotans in Water Quality Challenges	Science Museum of Minnesota	\$830,000
120-C	Mercer-Taylor	Beth	GreenStep Schools: Statewide Program, 20 School District Pilot	U of MN	\$992,959
121-C	Grilley	Dorian	Environmental Learning by Bicycle for Ages 8-80	Bicycle Alliance of Minnesota	\$393,000
122-C	Jones	Isiah	Camp Sunrise: Respect Self, Others and the Environment	YouthCARE MN	\$237,000
123-C	Legato	Denise	Increasing Diversity in Environmental Careers: Fellowships, Internships, Mentorships	MN DNR	\$250,000
124-C	Knopf	Chris	Connecting Over 11,000 Students to the Boundary Waters	Friends of the Boundary	\$783,135
C. Environmental Education					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$199,500)					
143-CH	Hammes	Mary	Mississippi National River & Recreation Area Forest Restoration	Mississippi Park Connection	\$199,500
D. Aquatic and Terrestrial Invasive Species (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$6,072,871)					
160-D	Phelps	Nicholas	Building Knowledge and Capacity to Solve AIS Problems	U of MN	\$5,000,000
161-D	Chandler	Monika	Elimination of Target Invasive Plant Species Transition Phase	Minnesota Department of Agriculture	\$772,871

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162-D	Frohnauer	Nick	Invasive Carp Acoustic Deterrence Field Trial at Lock19	MN DNR	\$300,000
D. Aquatic and Terrestrial Invasive Species					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$479,707)					
168-DH	Ambourn	Angie	Brown Marmorated Stink Bug Phase2: Monitoring & Biocontrol	Minnesota Department of Agriculture	\$188,707
169-DH	Montgomery	Rebecca	Suppressing Reed Canary Grass with Native Plants	U of MN	\$191,000
173-DH	McLennan	Helen	Oak Wilt Suppression at Northern Edge	Morrison Soil & Water Conservation District	\$100,000
E. Air Quality, Climate Change, and Renewable Energy (SELECTED TO PRESENT: 4 Proposals / Subtotal = \$3,140,299)					
174-E	Edlund	Mark	When the Dust Settles: Pristine Lakes are Changing	Science Museum of Minnesota	\$696,667
176-E	Reese	Michael	Development of Clean Energy Storage Systems for Farms	U of MN - WROC	\$994,224
182-E	Heins	Bradley	Optimization of a Net-Zero Dairy System	U of MN - WROC	\$876,706
186-E	ODay	Vicki	White Earth Nation Community Solar for Community Action	Rural Renewable Energy	\$572,702
E. Air Quality, Climate Change, and Renewable Energy					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 2 Proposals / Subtotal = \$385,013)					
190-EH	Pappenfus	Ted	Sustainable Solar Energy from Agricultural Plant Byproducts	U of MN - Morris	\$185,018
196-EH	Hill	Blaine	Modeling Energy and Environmental Roadmaps for Minnesota Communities	City of Morris	\$199,995
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (SELECTED TO PRESENT: 11 Proposals / Subtotal = \$10,251,858)					
199-F	Aukema	Brian	Eastern Larch Beetle is Decimating Minnesotas Tamarack Forests	U of MN	\$382,000
200-F	Reinikainen	Mike	Evaluating Forestry Tools for Conserving Minnesota's Tamarack Forest	MN DNR	\$864,436

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202-F	Runquist	Erik	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoo	\$977,813
204-F	Galatowitsch	Susan	Ensuring High-Quality Restoration Outcomes in Minnesota	U of MN	\$529,102
205-F	Main	Rylee	Restoring the Upper Mississippi River at Lake Pepin	Lake Pepin Legacy Alliance	\$525,000
207-F	Hernandez	Daniel	Comparison of Burning and Haying for Prairie Restoration	Carleton College	\$338,111
210-F	Etterson	Julie	Forest Regeneration: Right Seed in the Right Place?	U of MN - Duluth	\$476,336
212-F	Feeken	Neal	Conserving Minnesota's Best Prairie Habitats and Rarest Species	The Nature Conservancy	\$1,261,500
213-F	Zamora	Diomy	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	\$1,270,910
221-F	Tuominen	Todd	Elm Creek Stream Restoration Phase IV Final	City of Champlin	\$858,650
225-F	Brethorst	Michael	Sauk River Dam Removal and Rock Rapids Replacement	City of Melrose	\$2,768,000
F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 3 Proposals / Subtotal = \$522,607)					
231-FH	Jordan	Nicholas	Supporting Pollinators and Prairie Restorations with Beneficial Fungi	U of MN	\$187,362
232-FH	Zlonis	Katharine	Conservation and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	\$135,541
237-FH	Merkord	Christopher	Combating Woody Encroachment with Grazing after Mechanical Clearing	Minnesota State University - Moorhead	\$199,704
G. Land Acquisition for Habitat and Recreation (SELECTED TO PRESENT: 18 Proposals / Subtotal = \$49,816,230)					
247-G	Schulte	Judy	DNR Scientific and Natural Areas	MN DNR	\$5,758,000
248-G	Mularie	Audrey	Grants for Local Parks, Trails and Natural Areas	MN DNR	\$3,000,000

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249-G	Christie	Jennifer	Minnesota State Parks and State Trails In-Holdings	MN DNR	\$5,000,000
250-G	Schulte	Judy	Native Prairie Bank Conservation Easements and Landowner Assistance	MN DNR	\$3,828,000
251-G	Skaar	Kent	Minnesota State Trails Development	MN DNR	\$8,750,000
252-G	Heggerston	Leah	National Loon Center: State Bird Survival and Protection	National Loon Center Foundation	\$4,000,000
253-G	Stewart	Nancy	Accessible Fishing Piers	MN DNR	\$320,000
254-G	Manzoline	Robert	Mesabi Trail Extensions	St. Louis and Lake Counties Regional	\$5,150,000
256-G	Kennedy	Tim	Britton Peak to Lutsen Mountains Mountain Bike Trail	Superior Cycling Association	\$350,000
257-G	Geissler	John	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns University	\$2,410,500
258-G	Forbes	DJ	Turning Back to Rivers: Creating Recreation Opportunities	The Trust for Public Land	\$4,792,500
259-G	Greedy	Ross	Restoration of Winona's Prairie Island	City of Winona	\$352,201
264-G	Bissonette	Cathy	Birch Lake Recreation Area Campground	City of Babbitt	\$700,000
265-G	See-Benes	Britt	Bailey Lake Trail and Fishing Pier	City of Virginia	\$681,000
266-G	Lammers	Julie	Vergas Long Lake Trail	City of Vergas	\$291,111
269-G	Miller	Ryan	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	\$602,918
270-G	DeFrang	Brian	Winona's 1st Recreation Bridge over Highway 61	City of Winona	\$3,375,000
271-G	Beste	Bruce	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	\$455,000

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G. Land Acquisition for Habitat and Recreation					
H. Proposals seeking \$200,000 or less in funding (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$191,000)					
272-GH	Caneff	Denny	Making the SHTs Big Bad Five Beautiful Again	Superior Hiking Trail Association	\$191,000
I. Other (SELECTED TO PRESENT: 1 Proposal / Subtotal = \$135,000)					
273-I	Sherman-Hoehn	Katherine	Contract Agreement Reimbursement	MN DNR	\$135,000
J. Other (SELECTED TO PRESENT: 2 Proposals / Subtotal = \$1,699,000)					
274-J	Mattson	Nicole	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoo	\$199,000
275-J	Putzier	Paul	County Geologic Atlases - Part B	MN DNR	\$1,500,000