

## M.L. 2015 Environment and Natural Resources Trust Fund Recommendations (FY 2016)

The Legislative-Citizen Commission on Minnesota's Resources (LCCMR) has selected 65 projects totaling \$45.8 million to recommend to the 2015 Minnesota Legislature for funding from the Environment and Natural Resources Trust Fund (ENRTF). The recommendations are the result of the LCCMR's 2015 Request for Proposal (RFP) process, in which 152 proposals requesting a total of approximately \$126.3 million were received and considered through a competitive, multi-stage evaluation. The recommendations range from full funding for the full proposal and dollar amount requested to partial funding for specific proposal elements and partial dollar amounts requested.

Topic Area	\$ Recommended (\$45,851,000)	Percentage of Total Recommendation
<b>A. Foundational Natural Resource Data and Information</b> 19 Appropriations	\$12,482,000	27.22%
<b>B. Water Resources</b> 9 Appropriations	\$3,065,000	6.68%
<b>C. Environmental Education</b> 5 Appropriations	\$1,004,000	2.19%
<b>D. Aquatic and Terrestrial Invasive Species</b> 4 Appropriations	\$6,071,000	13.24%
<b>E. Air Quality, Climate Change, and Renewable Energy</b> 4 Appropriations	\$3,268,000	7.13%
<b>F. Methods to Protect, Restore, &amp; Enhance Land, Water, &amp; Habitat</b> 11 Appropriations	\$4,646,000	10.13%
<b>G. Land Acquisition for Habitat and Recreation</b> 11 Appropriations	\$14,190,000	30.95%
<b>H. Other</b> 2 Appropriation	\$1,125,000	2.45%
<b>TOTAL \$ RECOMMENDATION</b>	<b>\$45,851,000</b>	<b>100.00%</b>
<b>Fund Source</b>		
<b>FY 2016 - Environment and Natural Resources Trust Fund</b>		<b>\$45,851,000</b>
<b>TOTAL \$ RECOMMENDATION</b>		<b>\$45,851,000</b>

## ML 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY2016)

ENRTF ID	Title	LCCMR Recommended	Affiliation	Program Manager
		ENRTF: FY2016		
<b>A. Foundational Natural Resource Data and Information (19 Appropriations - Subtotal = \$12,482,000)</b>				
001-A	MGS Geologic Atlases to Support Natural Resource Management [Continuation]	\$2,040,000	U of MN - MN Geological Survey	Dale Setterholm
002-A	Minnesota Biological Survey [Continuation]	\$2,000,000	MN DNR	Carmen Converse
003-A	Completing the National Wetland Inventory Update for Minnesota [Continuation]	\$1,500,000	MN DNR	Steve Kloiber
004-A	Endangered Bats, White-Nose Syndrome, and Forest Habitat	\$1,250,000	MN DNR	Richard Baker
005-A	Integrating Minnesotas Biodiversity Data: a Comprehensive, Dynamic Atlas	\$340,000	U of MN - Bell Museum of Natural History	Keith Barker
006-A	County Geologic Atlas Continuation for Water Resource Sustainability [Continuation]	\$2,000,000	MN DNR	Jan Falteisek
007-A	Contaminants in Minnesotas Loons and Pelicans-Phase 3	\$141,000	MN DNR	Carrol Henderson
008-A	Reintroduction/Interpretation of Bison in Minnesota State Parks	\$600,000	MN DNR	Edward Quinn
009-A	Effects of Grazing Versus Fire for Prairie Management	\$414,000	U of MN	Karen Oberhauser
010-A	St. Anthony Falls Lock Closure: Assessing Ecological Impact	\$125,000	Minneapolis Riverfront Partnership	Kathleen Boe
011-A	Minnesota Native Bee Atlas: A Citizen Science Project	\$790,000	U of MN	Robert Blair
013-A	Genetic and Camera Techniques to Estimate Carnivore Populations	\$200,000	U of MN - Duluth NRRI	Ron Moen
014-A	Creating a Statewide Wetland Bird Survey	\$146,000	Audubon Minnesota	Mark Martell
016-A	Turtle Population Dynamics in an Urban Lake	\$250,000	University of St. Thomas	Jennifer McGuire
017-A	Movement and Seasonal Habitat Use of Minnesota Elk	\$200,000	MN DNR	Gino D'Angelo
018-A	Goblin Fern: Habitat Mitigation for Species Conservation	\$61,000	Leech Lake Band of Ojibwe	Bobby Henderson
020-A	A Foundational Dataset Characterizing Historic Forest Disturbance Impacts	\$200,000	U of MN	Michael Falkowski
024-A	Hydrologic Effects of Contemporary Forest Practices in Minnesota	\$150,000	U of MN	Diana Karwan

**ML 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY2016)**

ENRTF ID	Title	LCCMR Recommended	Affiliation	Program Manager
		ENRTF: FY2016		
031-A	Enhancing Future Forest Conservation Using Gullions Historic Research	\$75,000	Central Lakes College	Kent Montgomery
<b>Foundational Natural Resource Data and Information Subtotal =</b>		<b>\$12,482,000</b>		
<b>B. Water Resources (9 Appropriations - Subtotal = \$3,065,000)</b>				
033-B	Informed Water Management: Mapping Scarcity, Threats, and Values	\$234,000	U of MN	Bonnie Keeler
034-B	A Novel Biofilm Technology for Water Nutrient Removal	\$281,000	U of MN	Bo Hu
035-B	Preventing Phosphorous from Entering Water Resources Through Draintiles	\$505,000	U of MN	Kenneth Valentas
036-B	Biological Consequences of Septic Pollution in Minnesota Lakes	\$364,000	St. Cloud State University	Heiko Schoenfuss
037-B	Subsurface Drainage Impacts on Groundwater Recharge: Southeast Minnesota	\$488,000	U.S. Geological Survey	Erik Smith
045-B	Using Hydroacoustics to Monitor Sediment in Minnesotas Rivers	\$455,000	U.S. Geological Survey	Christopher Ellison
047-B	Southeastern Minnesota Cover Crop and Soil Health Initiatives	\$253,000	Board of Water and Soil Resources	Matt Drewitz
048-B	Achieving Minnesotas Groundwater Sustainability Through Irrigation Efficiencies	\$431,000	Benton Soil and Water Conservation District	Gerry Maciej
060-B	Shoreview Water Consumption and Groundwater Awareness Project	\$54,000	City of Shoreview	Jessica Schaum
<b>Water Resources Subtotal =</b>		<b>\$3,065,000</b>		
<b>C. Environmental Education (5 Appropriations - Subtotal = \$1,004,000)</b>				
065-C	Hunter's Choice: Alternative Ammunition	\$132,000	U of MN	Julia Ponder
066-C	Connecting Students with Watersheds through Hands-On Learning	\$400,000	Minnesota Trout Unlimited	John Lenczewski
067-C	Building 8 Zumbro Watershed Recreational Learning Stewardship Sites	\$300,000	Zumbro Watershed Partnership	Lawrence Svien
073-C	Splash Screen: SciGirls Exploring Watersheds Using Mobile Technologies	\$147,000	Twin Cities Public Television	Joan Freese

**ML 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY2016)**

ENRTF ID	Title	LCCMR Recommended	Affiliation	Program Manager
		ENRTF: FY2016		
074-C	Water Journey Camps	\$25,000	U of MN	Beth Mercer-Taylor
<b>Environmental Education Subtotal =</b>		<b>\$1,004,000</b>		
<b>D. Aquatic and Terrestrial Invasive Species (4 Appropriations - Subtotal = \$6,071,000)</b>				
081-D	Minnesota Terrestrial Invasive Species Research Center	\$5,000,000	U of MN	Brian Buhr
082-D	Emerald Ash Borer Ecological/Hydrological Impacts – Phase 2	\$400,000	U of MN	Anthony D'Amato
083-D	Biological Control of Canada Thistle	\$300,000	U of MN	Roger Becker
084-D	Preventing a New Disease of Pines in Minnesota	\$371,000	U of MN	Robert Blanchette
<b>Aquatic and Terrestrial Invasive Species Subtotal =</b>		<b>\$6,071,000</b>		
<b>E. Air Quality, Climate Change, and Renewable Energy (4 Appropriations - Subtotal = \$3,268,000)</b>				
096-E	Ending Minnesota Greenhouse Gas Emissions from Fossil Fuels	\$1,000,000	Legislative Energy Commission	Annie Levenson-Falk
101-E	Renewable and Sustainable Fertilizers Produced Locally	\$1,000,000	U of MN	Alon McCormick
110-E	Reducing Emissions from Open Burning through Biomass Gasification	\$268,000	U of MN	William Northrop
116-E	Reduce Greenhouse Gas Emissions and Solid Waste	\$1,000,000	The NetWork for Better Futures d/b/a Better Futures Minnesota	Steve Thomas
<b>Air Quality, Climate Change, and Renewable Energy Subtotal =</b>		<b>\$3,268,000</b>		
<b>F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (11 Appropriations - Subtotal = \$4,646,000)</b>				
117-F	Prioritizing Future Management of North Shore Trout Streams	\$416,000	U of MN - Duluth NRRI	Lucinda Johnson
118-F	Thirteen Counties Propagating Native Plants, Restoring Diverse Habitats	\$495,000	Martin SWCD	Rich Perrine
119-F	Preserving and Protecting Minnesota's 48 Native Orchid Species	\$167,000	U of MN - Landscape Arboretum	David Remucal
121-F	MeCC VIII: Restoration for Climate Resilience, Pollinators, Working Lands	\$400,000	Great River Greening	Wiley Buck
122-F	Conservation Assistance Acceleration Project	\$1,000,000	Board of Water and Soil Resources	Tabor Hoek

**ML 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY2016)**

ENRTF ID	Title	LCCMR Recommended	Affiliation	Program Manager
		ENRTF: FY2016		
123-F	MSU Moorhead Science Center Restoration & Monitoring	\$527,000	Moorhead State University	Brian Wisenden
126-F	MeCC VIII: FMR Restoring Prairie and Forest Habitat	\$276,000	Friends of the Mississippi River	Tom Lewanski
127-F	Empowered Citizens Improve 5 Urban Forests: Statewide Model	\$800,000	Minnesota Pollution Control Agency	Sarah Rudolf
128-F	Flood Recovery on Sargent Creek Duluth Habitat Restoration	\$300,000	City of Duluth	Christopher Kleist
129-F	Shoreland Protection for the Lower St. Croix River	\$190,000	St. Croix River Association	Debra Ryun
135-F	Redwood/Renville County Outdoor Recreation and Conservation Master Plan	\$75,000	Redwood County and Renville County	Mark Erickson
<b>Methods to Protect, Restore, and Enhance Subtotal =</b>		<b>\$4,646,000</b>		
<b>G. Land Acquisition for Habitat and Recreation (11 Appropriations - Subtotal = \$14,190,000)</b>				
136-G	Metropolitan Regional Park System Land Acquisition Phase 4	\$1,000,000	Metropolitan Council	Arne Stefferud
137-G	SNA Acquisition, Restoration, Enhancement and Public Engagement	\$4,000,000	MN DNR	Peggy Booth
138-G	Native Prairie Stewardship & Prairie Bank Easement Acquisition	\$3,500,000	MN DNR	Jason Garms
139-G	State Parks and State Trails Land Acquisitions	\$1,500,000	MN DNR	Jennifer Christie
141-G	MeCC VIII: Priority Expansion Minnesota Valley NWRefuge	\$500,000	Minnesota Valley National Wildlife Refuge Trust, Inc.	Deborah Loon
142-G	Mesabi Trail Development Soudan to Ely Phase 2	\$1,000,000	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline
143-G	MeCC VIII: MN DNR Metro Conservation Corridors 8, Ecological Landscapes	\$400,000	MN DNR	Patrick Rivers
144-G	MeCC VIII: TPLs Strategic Land Protection Program	\$750,000	The Trust for Public Land	Danielle Salus
145-G	MeCC VIII: Ecological Landscapes - Overall, Mapping and Coordination	\$40,000	Minnesota Land Trust	John Brosnan
147-G	Multi-benefit Watershed Scale Conservation on North Central Lakes	\$1,000,000	Leech Lake Area Watershed Foundation	Lindsey Ketchel

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148-G	MeCC VIII: Metro Conservation Corridors & Ecological Landscapes	\$500,000	Minnesota Land Trust	John Brosnan
<b>Land Acquisition for Habitat and Recreation Subtotal =</b>		<b>\$14,190,000</b>		
<b>H. Other (2 Appropriations - Subtotal = \$1,125,000)</b>				
152-H	Contract Management	\$135,000	MN DNR	Amanda Graeber
n/a	LCCMR Administration	\$990,000	Legislative-Citizen Commission on Minnesota Resources	Susan Thornton
<b>Administration Subtotal =</b>		<b>\$1,125,000</b>		
<b>Total \$ Recommendation =</b>		<b>\$45,851,000</b>		