

M.L. 2014 Environment and Natural Resources Trust Fund Recommendations (FY 2015)

The Legislative-Citizen Commission on Minnesota's Resources (LCCMR) has selected 71 projects totaling \$28.9 million to recommend to the 2014 Minnesota Legislature for funding from the Environment and Natural Resources Trust Fund (ENRTF). The recommendations are the result of the LCCMR's 2014 Request for Proposal (RFP) process, in which 192 proposals requesting a total of approximately \$111 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 (\$28,970,000)	Percentage of Total Recommendation
Subd. 03 Water Resources 13 Appropriations	\$4,579,000	15.81%
Subd. 04 Aquatic and Terrestrial Invasive Species 6 Appropriations	\$2,298,000	7.93%
Subd. 05 Foundational Natural Resource Data and Information 14 Appropriations	\$4,210,000	14.53%
Subd. 06 Methods to Protect, Restore, and Enhance Land, Water, and Habitat 11 Appropriations	\$3,675,000	12.69%
Subd. 07 Land Acquisition for Habitat and Recreation 6 Appropriations	\$6,923,000	23.90%
Subd. 08 Air Quality, Climate Change, and Renewable Energy 9 Appropriations	\$3,360,000	11.60%
Subd. 09 Environmental Education 9 Appropriations	\$3,681,000	12.71%
Subd. 10. Administration and Contract Agreement Reimbursement 3 Appropriations	\$244,000	0.84%
TOTAL \$ RECOMMENDATION	\$28,970,000	100.00%
Fund Source		
FY 2015 - Environment and Natural Resources Trust Fund		\$28,970,000
	TOTAL \$ RECOMMENDATION	\$28,970,000

ML 2014 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2015)

Subd.	ENRTF ID	Title	LCCMR \$	Affiliation	Program Manager
			Recommended ENRTF: FY 2015		
Subd. 03 Water Resources (13 Appropriations - Subtotal = \$4,579,000)					
03a	036-B	Solar Driven Destruction of Pesticides, Pharmaceuticals, and Contaminants in Water	\$291,000	U of MN	William Arnold
03b	033-B	Methods to Protect Beneficial Bacteria from Contaminants to Preserve Water Quality	\$279,000	U of MN	Paige Novak
03c	032-B	Triclosan Impacts on Wastewater Treatment	\$380,000	U of MN	Timothy LaPara
03d	031-B	Evaluation of Wastewater Nitrogen and Estrogen Treatment Options	\$500,000	U of MN	Paige Novak
03e	030-B	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	\$300,000	U of MN	William Arnold
03f	048-B	Impacts of Estrogen Exposure on Minnesota's Shallow Lake Wildlife	\$136,000	University of St. Thomas	Kurt Illig
03g	046-B	Watershed-Scale Monitoring of Long-Term Best Management Practice Effectiveness	\$900,000	Science Museum of MN - St. Croix Watershed Research Station	Daniel Engstrom
03h	035-B	Protection of State's Confined Drinking Water Aquifers	\$394,000	U. S. Geological Survey	James Stark
03i	034-B	Watershed Water Budgets for Managing Minnesota's Groundwater	\$129,000	U.S. Geological Survey	David Lorenz
03j	045-B	Identifying Causes of Exceptionally High Mercury in Fish	\$743,000	MN Pollution Control Agency	Bruce Monson
03k	083-C	Reducing Lake Quality Impairments through Citizen Action	\$59,000	Freshwater Society	Alex Gehrig
03l	038-B	Rainwater Reuse and Valuation Investigation	\$300,000	U of MN	Scott Alexander
03m	040-B	Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration	\$168,000	Red Lake Watershed District	Tim Cowdery
Water Resources Subtotal =			\$4,579,000		
Subd. 04 Aquatic and Terrestrial Invasive Species (6 Appropriations - Subtotal = \$2,298,000)					
04a	097-D	Blocking Bighead, Silver, and Other Invasive Carp by Optimizing Lock and Dams	\$854,000	U of MN	Peter Sorensen
04b	101-D	Bioacoustics to Detect, Deter, and Eliminate Silver Carp	\$262,000	U of MN Duluth	Allen Mensinger

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Subd.	ENRTF ID	Title	LCCMR \$	Affiliation	Program Manager
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04c	109-D	Northwest Minnesota Regional Aquatic Invasive Species Prevention Pilot	\$219,000	Red River Basin Commission	Joe Courneya
04d	098-D	Biosurveillance and Biocontrol of Emerald Ash Borer - Phase 2	\$447,000	MN Department of Agriculture	Monika Chandler
04e1	099-D	Mountain Pine Beetle Invasive Threat to Minnesota's Pines	\$175,000	U of MN	Brian Aukema
04e2	099-D	Mountain Pine Beetle Invasive Threat to Minnesota's Pines	\$75,000	MN Department of Agriculture	Mark Abrahamson
04f1	100-D	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	\$167,000	U of MN	Robert Koch
04f2	100-D	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	\$99,000	MN Department of Agriculture	Mark Abrahamson
Aquatic and Terrestrial Invasive Species Subtotal =			\$2,298,000		
Subd. 05 Foundational Natural Resource Data and Information (14 Appropriations - Subtotal = \$4,210,000)					
05a	001-A	Update Statewide Land Cover Use Map	\$300,000	U of MN	Joseph Knight
05b	009-A	State Spring Inventory for Resource Management and Protection	\$200,000	MN DNR	Jan Falteisek
05c	010-A	Drainage Records Modernization and Statewide Geographic Information System Database	\$230,000	Board of Water and Soil Resources	Allan Kean
05d	023-A	Restoring Forest Inventory Data	\$100,000	U of MN	Alan Ek
05e	111-E	Assessing Species Vulnerability to Climate Change Using Phenology	\$175,000	U of MN	Rebecca Montgomery
05f	008-A	Minnesota Breeding Bird Atlas - Final Phase	\$300,000	Audubon Minnesota	Mark Martell
05g	005-A	Assessing Contaminants in Minnesota's Loons and Pelicans – Phase 2	\$260,000	MN DNR	Carol Henderson
05h	019-A	Sandhill Crane Populations and Management in Minnesota	\$250,000	U of MN	David Andersen
05i	006-A	Wild Bee Pollinator Surveys in Prairie-Grassland Habitats	\$370,000	MN DNR	Gerda Nordquist
05j1	017-A	Imperiled Prairie Butterfly Conservation, Research, and Breeding Program	\$380,000	Minnesota Zoological Garden	Erik Runquist
05j2	017-A	Imperiled Prairie Butterfly Conservation, Research, and Breeding Program	\$245,000	MN DNR	Robert Dana

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05k	004-A	Conserving Minnesota's Native Freshwater Mussels	\$350,000	U of MN	Jessica Kozarek
05l	014-A	Impacts of Forest Quality on Declining Minnesota Moose	\$300,000	U of MN	James Forester
05m	016-A	Moose Decline and Air Temperatures in Northeastern Minnesota	\$600,000	MN DNR	Mike Larson
05n	020-A	Expansion of Minnesota Wildflowers Online Botanical Reference	\$150,000	Minnesota Wildflowers Information	Katy Chayka
Foundational Natural Resource Data and Information Subtotal =			\$4,210,000		
Subd. 06 Methods to Protect, Restore, and Enhance Land, Water, and Habitat (11 Appropriations - Subtotal = \$3,675,000)					
06a	146-F	Enhancing Pollinator Landscapes	\$864,000	U of MN	Marla Spivak
06b	151-F	Understanding Systemic Insecticides as Protection Strategy for Bees	\$326,000	U of MN	Vera Krischik
06c	147-F	Prairie Sustainability Through Seed Storage, Beneficial Microbes, and Adaptation	\$600,000	U of MN	Ruth Shaw
06d	152-F	Northeast Minnesota White Cedar Restoration – Phase 2	\$335,000	Board of Water and Soil Resources	Dale Krystosek
06e	154-F	Southeast Minnesota Watershed Protection Plan	\$200,000	The Nature Conservancy	Richard Biske
06f	157-F	Upland and Shoreline Restoration in Greater Metropolitan Area	\$300,000	Great River Greening	Wiley Buck
06g	158-F	Prairie, Forest, and Savanna Restoration in Greater Metropolitan Area	\$200,000	Friends of the Mississippi River	Tom Lewanski
06h	058-B	Nutrient Capture through Water Management and Biomass Harvesting	\$300,000	Red River Basin Commission	Jeff Lewis
06i	163-F	Cattail Management for Wetland Wildlife and Bioenergy Potential	\$74,000	U of MN - Crookston	Daniel Svedarsky
06j	162-F	Dredged Sediment for Forest Restoration on Unproductive Minelands	\$300,000	U of MN - Duluth Natural Resources Research Institute	Tom Levar
06k	174-F	Expansion of Greenhouse Production	\$176,000	City of Silver Bay	Lana Fralich
Methods to Protect, Restore, and Enhance Subtotal =			\$3,675,000		
Subd. 07 Land Acquisition for Habitat and Recreation (6 Appropriations - Subtotal = \$6,923,000)					
07a	177-G	Scientific and Natural Area Acquisition, Restoration, Improvement and Citizen Engagement	\$2,540,000	MN DNR	Peggy Booth

ML 2014 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2015)

Subd.	ENRTF ID	Title	LCCMR \$	Affiliation	Program Manager
			Recommended ENRTF: FY 2015		
07b	178-G	Metropolitan Regional Park System Acquisition	\$1,500,000	Metropolitan Council	Arne Stefferud
07c	184-G	Mesabi Trail Development – Soudan to Ely Segment	\$1,000,000	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline
07d	183-G	Shoreland Acquisition on St. Croix River	\$1,250,000	Washington County	Jane Harper
07e	182-G	Martin County Park and Natural Area Acquisition	\$435,000	Fox Lake Conservation League, Inc.	Rich Perrine
07f	188-G	Minnesota River Water Trailhead and Landing in Morton	\$198,000	City of Morton	Carl Colwell
Land Acquisition for Habitat and Recreation Subtotal =			\$6,923,000		
Subd. 08 Air Quality, Climate Change, and Renewable Energy (9 Appropriations - Subtotal = \$3,360,000)					
08a	112-E	Solar Cell Materials from Sulfur and Common Metals	\$494,000	U of MN	Lee Penn
08b	116-E	Innovative Groundwater-Enhanced Geothermal Heat Pump Study	\$196,000	U of MN	Martin Saar
08c	121-E	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources	\$1,000,000	U of MN	Roger Ruan
08d	122-E	Transitioning Minnesota Farms to Local Energy	\$500,000	U of MN - Morris	Michael Reese
08e	126-E	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	\$250,000	U of MN - Morris	Joel Tallaksen
08f	125-E	Clean Water and Renewable Energy from Beet Processing Wastewater and Manure	\$400,000	U of MN - Southern Research and Outreach Center Waseca	Xiao Wu
08g	133-E	Next Generation Large-Scale Septic Tank Systems	\$258,000	U of MN	Bo Hu
08h	137-E	Solar Photovoltaic Installation at Residential Environmental Learning Centers	\$150,000	Deep Portage	Dale Yerger
08i	140-E	Itasca Community College Woody Biomass Utilization Project Design	\$112,000	Itasca Community College	Bart Johnson
Air Quality, Climate Change, and Renewable Energy Subtotal =			\$3,360,000		
Subd. 09 Environmental Education (9 Appropriations - Subtotal = \$3,681,000)					
09a	066-C	Minnesota Conservation Apprenticeship Academy	\$392,000	BWSR	Jenny Gieseke
09b	071-C	Youth-led Sustainability Initiatives in 40 Greater Minnesota Communities	\$350,000	Prairie Woods Environmental Learning Center	Dave Pederson

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09c	074-C	Urban Environmental Education Engaging Students in Local Resources	\$1,093,000	Wilderness Inquiry	Chad Dayton
09d1	077-C	Diversifying Involvement in the Natural Resources Community	\$500,000	MN DNR / U of MN	Michele Hanson
09e	069-C	Educating Minnesotans about Potential Impacts of Changing Climate	\$325,000	Will Steger Foundation	Kristen Poppleton
09f	073-C	Pollinator Education Center at the Minnesota Landscape Arboretum	\$615,000	U of MN, Landscape Arboretum	Peter Moe
09g	072-C	Minnesota Pollinator Partnership	\$100,000	Pheasants Forever	Drew Larsen
09h	076-C	Raptor Lab Integrating Online and Outdoor Learning Environments	\$186,000	U of MN	Julia Ponder
09i	086-C	Wolf Management Education	\$120,000	International Wolf Center	Darcy Berus
Environmental Education Subtotal =			\$3,681,000		
Subd. 10. Administration and Contract Agreement Reimbursement (3 Appropriations - Subtotal = \$244,000)					
10a	191-H	Contract Agreement Reimbursement	\$135,000	MN DNR	Amanda Graeber
10b	192-H	Legislative Coordinating Commission Legacy Web Site	\$9,000	Legislative Coordinating Commission	Sally Olson
10c	N/A	Environment and Natural Resources Trust Fund (ENRTF) Project Records System Upgrade	\$100,000	LCCMR	Susan Thornton
Administration Subtotal =			\$244,000		
Total \$ Recommendation =			\$28,970,000		