

## FY 2015 Environment and Natural Resources Trust Fund Allocations (2014 RFP)

TOTAL ALLOCATIONS = \$28,879,000						TOTAL BALANCE = \$581,000		
Line #	Rec	ID #	Project Title	Organization	\$ Requested	LCCMR \$ Recommended		Allocation Notes
						ENRTF: FY 2015		
1	<b>A. Foundational Natural Resource Data and Information (17 Proposals / \$8,977,667)</b>							
2	X	001-A	Mapping Landscapes for Better Land and Water Management	U of MN	\$378,000		\$300,000	
3		002-A	Assess and Improve Ecological Health of Trust Lands	U of MN	\$514,000			
4		003-A	Online Access to Minnesota's Biodiversity for Environmental Management	U of MN	\$342,000			
5	X	004-A	Conserving Minnesotas Freshwater Mussel Legacy: Quantifying Habitat Interactions	U of MN	\$356,000		\$350,000	
6	X	005-A	Contaminants in Minnesotas Loons and Pelicans: Phase 2	MN DNR	\$259,000		\$260,000	Project needs to address the question of whether analysis could be completed in Minnesota instead of Connecticut.
7	X	006-A	Wild Bee Surveys in Prairie-Grassland Habitats	MN DNR	\$370,000		\$370,000	
8	X	008-A	Analyzing and sharing the Minnesota Breeding Bird Atlas	Audubon Minnesota	\$386,000		\$300,000	Funds cannot be used for the publication of the book.
9	X	009-A	State Spring Inventory for Resource Management and Protection	MN DNR	\$875,000		\$200,000	Project should get the process started by developing protocol and defining a "spring" - then have all DNR units and citizen science assist with identifying locations. Use a similar approach to that of Wisconsin.
10	X	010-A	Drainage Records Modernization and Statewide GIS Database	BWSR	\$730,000		\$230,000	Funding recommendation is for activity 1 and 2 only.
11		011-A	Impact of Grazing on Native Plants and Pollinators	U.S. Geological Survey	\$465,000			
12		013-A	Redesigned Updating of State and County Forest Inventories	MN DNR	\$1,794,000			
13	X	014-A	Impacts of Forest Quality on Declining Minnesota Moose	U of MN	\$394,000		\$300,000	
14	X	016-A	Moose Decline and Air Temperatures in Northeastern Minnesota	MN DNR	\$743,000		\$600,000	
15	X	017-A	Prairie Butterfly Conservation, Research and Breeding Program	Minnesota Zoological Garden	\$638,000		\$625,000	
16	X	019-A	Sandhill Crane Populations and Management in Minnesota	U of MN	\$306,000		\$250,000	

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17	X	020-A	Expand the Minnesota Wildflowers Online Botanical Reference	MN Wildflowers Information	\$222,000		\$150,000	Project needs to address a transfer of assets to the state in the event organization dissolves or no longer maintains the website. Organization needs to meet with staff to discuss fiscal issues.
18	X	023-A	Restoring Long-Lost Forest Data and Extending Ecological Monitoring	U of MN	\$196,000		\$100,000	
19	13	<b>Foundational Natural Resource Data and Information Subtotal =</b>			<b>\$8,968,000</b>		<b>\$4,035,000</b>	
20								
21	<b>B. Water Resources (18 Proposals / \$8,742,492)</b>							
22	X	030-B	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	U of MN	\$338,000		\$300,000	
23	X	031-B	Wastewater Estrogen: Removal Options, Fish Abundance, and Cost	U of MN	\$516,000		\$500,000	
24	X	032-B	Does Triclosan Create Super Bugs During Wastewater Treatment	U of MN	\$382,000		\$380,000	
25	X	033-B	Protecting Bacteria from Contaminants to Preserve Water Quality	U of MN	\$279,000		\$279,000	
26	X	034-B	Watershed Water Budgets for Managing Minnesota's Water	U.S. Geological Survey	\$129,000		\$129,000	
27	X	035-B	Protecting the State's Confined Drinking-Water Aquifers	U. S. Geological Survey	\$394,000		\$394,000	
28	X	036-B	Water: Solar Driven Destruction of Pesticides, Pharmaceuticals, Contaminants	U of MN	\$291,000		\$291,000	
29		037-B	Removing Phosphorous and Endocrine Disruptors from our Waterways	U of MN	\$493,000			
30	X	038-B	Rain Water Reuse and Valuation Investigation	U of MN	\$310,000		\$300,000	
31	X	040-B	Measuring hydrologic benefits from Glacial Ridge habitat restoration	Red Lake Watershed District	\$168,000		\$168,000	
32	X	045-B	Identifying Causes of Exceptionally High Mercury in Fish	MN Pollution Control Agency	\$2,700,000		\$743,000	Funding recommendation is for project to focus on Roseau River.
33	X	046-B	Sedimental Journey: Watershed-scale monitoring of BMP effectiveness	Science Museum of MN - St. Croix Watershed Research Station	\$972,000		\$900,000	
34		047-B	Demonstrating Farmer Led Conservation in Elm Creek Watershed	Rural Advantage	\$460,000			

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35	X	048-B	Estrogen exposure analyses in Minnesotas Shallow Lake Wildlife	St. Thomas University	\$136,000		\$136,000	
36		050-B	Restoring Groundwater and Trout Habitat Through Irrigation Efficiencies	Benton County Soil and Water Conservation District	\$490,000			
37		051-B	Small-scale Groundwater sustainability assessment	U of MN	\$118,000			
38	X	058-B	Nutrient Capture Through Water Management and Biomass Harvesting	Red River Basin Commission	\$478,000		\$300,000	
39		062-B	Minnesota River Community Clean-Ups for Water Quality	Friends of the Minnesota Valley	\$85,000			
40	13	<b>Water Resources Subtotal =</b>			<b>\$8,739,000</b>		<b>\$4,820,000</b>	
41								
42		<b>C. Environmental Education (12 Proposals / \$5,487,834)</b>						
43	X	066-C	Minnesota Conservation Apprenticeship Academy	BWSR	\$392,000		\$392,000	
44		068-C	GreenStep Schools Program: School-based Environmental Education and Stewardship	MN Pollution Control Agency	\$900,000			
45	X	069-C	Minnesota Stories in a Changing Climate	Will Steger Foundation	\$413,000		\$325,000	
46	X	071-C	Youth-led Sustainability Initiatives in 40 Greater MN Communities	Prairie Woods Environmental Learning Center	\$397,000		\$350,000	
47	X	072-C	Minnesota Pollinator Partnership	Pheasants Forever	\$104,000		\$100,000	
48	X	073-C	Bee Discovery Center at the Minnesota Landscape Arboretum	U of MN, Landscape Arboretum	\$615,000		\$615,000	Bee Discovery Center should present best science pertaining to all pollinators and native species. Organization needs to address concerns about access and fees, how going to do more outreach, and how going to ensure additional underserved children brought in at no or limited cost.
49	X	074-C	Urban Environmental Education Engaging Students in Local Resources	Wilderness Inquiry	\$1,093,000		\$1,093,000	Project needs to address how this effort will transition to a self-sustaining program in the future.
50	X	076-C	Raptor Lab: Online and Outdoors!	U of MN	\$186,000		\$186,000	

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51	X	077-C	Building Bridges to a Diverse Natural Resources Community	MN DNR	\$1,100,000	\$500,000	Recommendation does not include funds for amphitheatre or fishing pond. Proposers need to meet with LCCMR staff on potential implications for scope of work at this funding amount. Also - coordinate with Wilderness Inquiry's related work.
52		080-C	TV Documentary: The Great Mille Lacs Walleye Mystery	Twin Cities Public Television	\$102,000		
53	X	083-C	Reducing Lake Quality Impairments through Citizen Action	Freshwater Society	\$59,000	\$59,000	
54	X	086-C	The Wolf At Our Door	International Wolf Center	\$123,000	\$120,000	
55	10	Environmental Education Subtotal =			\$5,484,000	\$3,740,000	
56							
57		<b>D. Aquatic and Terrestrial Invasive Species (10 Proposals / \$8,790,966)</b>					
58	X	097-D	Blocking Asian Carp by Optimizing Lock and Dams	U of MN	\$463,000	\$463,000	Contingent on the administration of the AIS Center and AIS Center research initiatives funding getting resolved in partnership with U of MN. Additional tentative allocation of \$391,000 more (Total = \$854,000) to add Lock and Dam #8 if issues resolved.
59	X	098-D	Biosurveillance and Biocontrol of EAB - Phase 2	MN Department of Agriculture	\$628,000	\$447,000	Funding recommendation is for activities 1, 2, and 4 only.
60	X	099-D	Mountain Pine Beetle: Invasive Threat to Minnesotas Pines	U of MN	\$382,000	\$250,000	
61	X	100-D	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	MN Department of Agriculture	\$266,000	\$266,000	
62	X	101-D	Bioacoustics to Detect, Deter and Eliminate Flying Carp	U of MN Duluth	\$262,000	\$262,000	
63		102-D	Bacterial Biodiversity for Sustainable St. Louis River Estuary	U of MN - Duluth	\$359,000		
64		104-D	Minnesota Deers Risk of Invading Epizootic Hemorrhagic Disease	U of MN - College of Veterinary Medicine	\$135,000		
65		106-D	Accelerated Effort to Understand and Control Zebra Mussels	MN DNR	\$5,180,000		

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66	X	107-D	Invasive Species Control in Grassland Habitats	The Nature Conservancy	\$892,000		\$300,000	Work must only be done on public lands or lands with permanent protection per ENRTF requirements. Work should not be for ongoing maintenance of lands but should be for innovative control methods, as was indicated in the RFP. Project must coordinate with related DNR and LSOHC funded efforts.
67	X	109-D	Regional Aquatic Invasive Species Project	Red River Basin Commission	\$219,000		\$219,000	Project must coordinate with LSOHC and DNR efforts on local invasive species control. Project will need to provide specific reporting and analysis on outcomes and findings of this alternative approach on what works and what doesn't to make information helpful to other communities.
68	7	Aquatic and Terrestrial Invasive Species Subtotal =			\$8,786,000		\$2,207,000	
69								
70		<b>E. Air Quality, Climate Change, and Renewable Energy (12 Proposals / \$8,601,882)</b>						
71	X	111-E	Assessing Species Vulnerability to Climate Change Using Phenology	U of MN	\$189,000		\$175,000	
72	X	112-E	Solar Cell Materials from Sulfur and Common Metals	U of MN	\$494,000		\$494,000	
73	X	116-E	Innovative Groundwater-Enhanced Geothermal Heat Pump Study	U of MN	\$196,000		\$196,000	
74	X	121-E	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources	U of MN	\$2,041,000		\$1,000,000	
75	X	122-E	Transitioning Minnesota Farms to Local Energy	U of MN	\$1,049,000		\$500,000	Any installation of infrastructure or improvements must be at the WROC, not private farms. Funding recommendation is to limit scope to the swine study.
76	X	125-E	Clean Water/Renewable Energy from Beet Waste/Manure	U of MN	\$403,000		\$400,000	
77	X	126-E	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	U of MN	\$512,000		\$250,000	
78	X	133-E	Next Generation Septic Tank Systems	U of MN	\$258,000		\$258,000	
79		134-E	District Heating With Renewable Biomass at Camp Ripley	MN Department of Military Affairs/MN National Guard	\$1,970,000			

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80	X	137-E	Solar PV at Minnesotas Residential Environmental Learning Centers	Eagle Bluff, Wolf Ridge, Deep Portage, Long Lake, Audubon, Laurentian ELC	\$150,000	\$150,000		Prior to installation, organizations must submit to LCCMR office for review the proposed placement of solar systems in order to demonstrate maximum educational value.
81		139-E	Eliminating Sulfur from On-Farm Anaerobic Digester Emissions	MN Department of Agriculture	\$300,000			
82	X	140-E	Itasca Boiler/Woody Biomass Utilization Project	Itasca Community College	\$1,035,000	\$112,000		Funding is for final design only. Students must be involved in the design process. Proposers encouraged to apply for bonding for the construction.
83	10	Air Quality, Climate Change, and Renewable Energy Subtotal =			\$8,597,000	\$3,535,000		
84								
85		<b>F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (16 Proposals / \$7,151,694)</b>						
86	X	146-F	Achieving Pollinator Landscapes with the Greatest Multiple Benefits	U of MN	\$1,714,000	\$864,000		Funding recommendation is for activities 1 and 2 only. Proposer is encouraged to apply to the Dept. of Agriculture grant programs for funding of other proposal elements.
87	X	147-F	Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation	U of MN	\$695,000	\$600,000		
88		149-F	Developing Forever Green Crops for Minnesotas Agricultural Landscapes	U of MN	\$847,000			
89		150-F	Restoring Aquatic Habitat by Reducing Sediment from Streambanks	U of MN - Water Resources Center	\$276,000			
90	X	151-F	Protecting Bees by Understanding Systemic Insecticides	U of MN	\$326,000	\$326,000		
91	X	152-F	Northeast Minnesota White Cedar Restoration, Phase 2	BWSR	\$335,000	\$335,000		
92	X	154-F	Protecting the Best of the Best in Southeast	The Nature Conservancy	\$258,000	\$200,000		
93	X	157-F	Restoring our Lands and Waters	Great River Greening	\$414,000	\$300,000		
94	X	158-F	Protect, Restore and Enhance Significant Watershed Habitat.	Friends of the Mississippi River	\$204,000	\$200,000		
95		161-F	Maintaining Expiring CRP Land Benefits Using Integrative Cropping	U of MN	\$467,000			
96	X	162-F	Dredged Sediment for Forest Restoration on Unproductive Minelands	U of MN - NRR1	\$495,000	\$300,000		Project must address the overall role of the Army Corps of Engineers and clarify the permitting needed from MPCA.

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97	X	163-F	Cattail Management for Wetland Wildlife and Bioenergy Potential	U of MN	\$74,000	\$74,000	
98		164-F	Innovative Technology to Seed Plants on Streambanks	U of MN	\$189,000		
99		171-F	Ecological Management Plans - Mississippi River Watershed and Minneapolis	Minneapolis Park and Recreation Board	\$228,000		
100		172-F	Increasing Habitat and Ecosystem Benefits through Forest management	MN DNR - Div of Forestry	\$268,000		
101	X	174-F	Victus Farms: Expanding in New Directions	City of Silver Bay	\$356,000	\$176,000	Funding recommendation is for activity 3 only.
102	10	<b>Methods to Protect, Restore, and Enhance Subtotal =</b>			<b>\$7,146,000</b>	<b>\$3,375,000</b>	
103							
104		<b>G. Land Acquisition for Habitat and Recreation (7 Proposals / \$10,855,070)</b>					
105	X	177-G	SNA Acquisition, Restoration, Improvement & Citizen Engagement	MN DNR	\$3,951,000	\$2,540,000	Recommendation is that priority must be given to lands that have been challenged to garner support in the LSOHC process, such as particularly fragile lands or lands only suited for passive recreation.
106	X	178-G	Metropolitan Regional Park System Acquisition--Phase 3	Metropolitan Council	\$2,250,000	\$1,500,000	
107	X	182-G	VanderWert Scientific and Natural Area and County Park	Fox Lake Conservation League, Inc.	\$455,000	\$435,000	
108	X	183-G	3,500-Foot Shoreland Acquisition on St. Croix River	Washington County	\$2,500,000	\$1,250,000	Funding recommendation is contingent on project providing \$2,500,000 or more of local match.
109	X	184-G	Mesabi Trail Development - Soudan to Ely Segment	St. Louis & Lake Counties Regional Railroad Auth.	\$1,000,000	\$1,000,000	
110		187-G	Strategic Land Acquisition, Accelerating Sales and Exchanges	MN DNR	\$500,000		
111	X	188-G	Connecting the Minnesota River Water Trail and Morton	City of Morton	\$198,000	\$198,000	
112	6	<b>Land Acquisition for Habitat and Recreation Subtotal =</b>			<b>\$10,854,000</b>	<b>\$6,923,000</b>	
113							

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114	<b>H. Other (2 Proposals / \$144,000)</b>						
115	X	191-H	Contract Management	MN DNR	\$135,000	\$135,000	Project should provide better reporting/breakdown of expenditures, such as hours spent per project.
116	X	192-H	LCC - Web	LCC	\$9,000	\$9,000	
117	2	Other Subtotal =			\$144,000	\$144,000	
118	<b>Administration (1 Proposal / \$100,000)</b>						
119	X	N/A	LCCMR Proposal/Project Management	LCCMR	\$100,000	\$100,000	
120	0	Administration Subtotal =			\$100,000	\$100,000	
121							
122	TOTAL \$ REQUESTS =				\$58,818,000	\$28,879,000	= TOTAL \$ RECOMMENDED