

2017 Environment and Natural Resources Trust Fund (ENRTF) Appropriations
M.L. 2017, Chp. 96, Sec. 2

M.S. 84.95 Reinvst in Minnesota Resources Fund (RIM) Analaysis of ML 2017 Appropriations					(1) development and implementation of the fish and wildlife management plans under section 84.942;	(2) implementation of the reinvest in Minnesota reserve program established by section 103F.515;	(3)soil and water conservation practices to improve water quality, reduce soil erosion and crop surpluses;	(4) enhancement or restoration of fish and wildlife habitat on lakes, streams, wetlands, and public and private forest lands;	(5) acquisition and development of public access sites and recreation easements to lakes, streams, and rivers for fish and wildlife oriented recreation;	(6) matching funds with government agencies, federally recognized Indian tribes and bands, and the private sector for acquisition and improvement of fish and wildlife habitat;	(7) research and surveys of fish and wildlife species and habitat;	(8) enforcement of natural resource laws and rules;	(9) information and education;	(10) implementing the aspen recycling program under section 88.80 and for other forest wildlife management projects; and	(11) necessary support services to carry out these purposes.
Subd.	Title	Total \$ Appropriated	Organization	Project Manager											
Subd. 03 Foundational Natural Resource Data and Information (14 Appropriations - Subtotal = \$9,961,000)															
03a	County Geologic Atlases - Continuation	\$ 2,000,000	U of MN - MN Geological Survey	Dale Setterholm										x	x
03b	Assessment of Public Benefits of Protecting Source Water	\$ 320,000	U of MN	Bonnie Keeler										x	x
03c	Preserving Minnesota Prairie Plant Diversity – Phase II	\$ 900,000	U of MN	Ruth Shaw							x		x		x
03d	Minnesota Biological Survey - Continuation	\$ 2,900,000	MN DNR	Bruce Carlson							x		x		x
03e	Minnesota Wildflowers Online Botanical Reference – Phase II	\$ 270,000	MN Wildflowers Information	Katy Chayka									x		x
03f	Assessment of Microbes for Improving Wild Rice Restoration	\$ 334,000	U of MN - NRRI	Chanlan Chun									x		x
03g	Drainage Records Modernization Cost Share - Phase II	\$ 540,000	Board of Water and Soil Resources	Tim Gillette									x		x
03h	Groundwater Contamination Mapping	\$ 400,000	Minnesota Pollution Control Agency	Hans Neve									x		x
03i	Landslide Susceptibility, Mapping, and Management Tools	\$ 500,000	U of MN	Karen Gran									x		x
03j	Moose Calf Surveys and Monitoring	\$ 348,000	U of MN	Mark Ditmer							x		x		x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager											
03k	Cedar Creek Natural Area Wolf Recolonization Assessment	\$ 398,000	U of MN	Forest Isbell							x		x		x
03l	Effects of Wolf Predation on Beaver, Moose, and Deer	\$ 293,000	Voyageurs National Park	Steve Windels							x		x		x
03m	Mapping Taxonomy and Environmental Toxicology of Minnesota Freshwater Sponges	\$ 258,000	U of MN	Venugopal Mukku							x		x		x
03n	Pollinator Research and Outreach	\$ 500,000	U of MN	Open							x		x		x
Foundational Natural Resource		\$ 9,961,000													
Subd. 04 Water Resources (9 Appropriations - Subtotal = \$3,175,000)															
04a	Assessment of Household Chemicals and Herbicides in Rivers and Lakes	\$ 236,000	U of MN	William Arnold									x		x
04b	Wastewater Nitrogen Removal Technology to Protect Water Quality	\$ 450,000	U of MN	Paige Novak									x		x
04c	Rearing Native Mussels for Reintroduction and Expanding Water Quality Awareness	\$ 591,000	Minnesota Zoological Garden	Allan Maguire				x			x		x		x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager												
04d	Water Quality Monitoring in Southeastern Minnesota Trout Streams	\$ 500,000	Winona State University	Neal Mundahl										x		x
04e	Reassessing Toxicity of Petroleum Spills on Groundwater and Surface Water	\$ 300,000	St. Thomas University	Dalma Martinovic-Weigelt										x		x
04f	Assessment of Water Quality for Reuse	\$ 148,000	U of MN	Satoshi Ishii										x		x
04g	Identification of Chemicals of Emerging Concern in Minnesota Fish	\$ 400,000	Grand Portage Band of Lake Superior Chippewa	Seth Moore										x		x
04h	Techniques for Water Storage Estimates in Central Minnesota	\$ 250,000	U of MN	John Nieber										x		x
04i	Assessing Release of Mercury and Sulfur on Aquatic Communities	\$ 300,000	U of MN	Ed Nater										x		x
Water Resources Subtotal =		\$ 3,175,000														
Subd. 05 Environmental Education (7 Appropriations - Subtotal = \$2,988,000)																
05a	Connecting Youth to Minnesota Waterways through Outdoor Classrooms	\$ 1,200,000	Wilderness Inquiry	Meg Krueger										x		x
05b	Increasing Diversity in Environmental Careers	\$ 487,000	MN DNR	Denise Legato										x		x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager											
05c	Interactive Water Resource Programs for Planetariums in Minnesota	\$ 500,000	U of MN - Bell Museum of Natural History	George Weiblen									x		x
05d	Expanding Raptor Center Online Education	\$ 270,000	U of MN	Julia Ponder									x		x
05e	Local Planning and Implementation Efforts for Bird Habitat	\$ 280,000	Audubon Minnesota	Joanna Eckles									x		x
05f	Developing Youth Watershed Stewardship in Northwest Minnesota	\$ 121,000	Headwaters Science Center	Annie Butler Ricks									x		x
05g	Increasing Residential Environmental Learning Center Opportunities	\$ 130,000	Audubon Center of the North Woods	Bryan Wood									x		x
Environmental Education		\$ 2,988,000													
Subd. 06 Aquatic and Terrestrial Invasive Species (6 Appropriations - Subtotal = \$4,721,000)															
06a	Aquatic Invasive Species Research Center - Phase II	\$ 2,700,000	U of MN - AIS Center	Nicholas Phelps							x		x		x
06b	Emerald Ash Borer Biocontrol - Phase III	\$ 729,000	Minnesota Department of Agriculture	Jonathan Osthus							x		x	x	x
06c	Invasive Bighead Carp and Silver Carp and Native Fish Evaluation – Phase II	\$ 500,000	MN DNR	Bradford Parsons							x		x		x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager											
06d	Adapting Stream Barriers to Remove Common Carp	\$ 301,000	U of MN - AIS Center	Przemyslaw Bajer							x		x		x
06e	Tactical Invasive Plant Management Plan Development	\$ 296,000	Minnesota Department of Agriculture	Monika Chandler				x					x	x	x
06f	Maximize Value of Water Impoundments to Wildlife	\$ 195,000	Audubon Minnesota	Kristin Hall				x							x
Aquatic and Terrestrial Invasive		\$ 4,721,000													
Subd. 07 Air Quality, Climate Change, and Renewable Energy (5 Appropriations - Subtotal = \$3,250,000)															
07a	Extraction of Solar Thermal Energy in Minnesota	\$ 250,000	U of MN	Filippo Coletti											x
07b	Assessment of Urban Air Pollution	\$ 700,000	Minnesota Pollution Control Agency	Monika Vadali									x		x
07c	Generation, Storage, and Utilization of Solar Energy	\$ 500,000	U of MN - West Central Research and Outreach Center in Morris	Bradley Heins											x
07d	District Heating with Renewable Biomass at Camp Ripley Training Center	\$ 1,000,000	Department of Military Affairs	Josh Pennington											x
07e	Geotargeted Distributed Clean Energy Initiative	\$ 800,000	Center for Energy and Environment	Carl Nelson											x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager												
Air Quality, Climate Change, and		\$ 3,250,000														
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat (12 Appropriations - Subtotal = \$24,283,000)																
08a	Optimizing the Nutrition of Roadside Plants for Pollinators	\$ 815,000	U of MN	Emilie Snell-Rood				x						x		x
08b	Promoting Conservation Biocontrol of Beneficial Insects	\$ 400,000	U of MN	Vera Krischik										x		x
08c	Evaluating the Use of Bison to Restore and Preserve Savanna Habitat	\$ 388,000	Cedar Creek Ecosystem Science Reserve	David Tilman										x		x
08d	State Park Pollinator Habitat Restoration	\$ 672,000	MN DNR	Edward Quinn				x						x		x
08e	Enhancing Spawning Habitat Restoration in Minnesota Lakes	\$ 294,000	U of MN - St. Anthony Falls Laboratory	William Herb				x						x		x
08f	Prescribed Fire Management for Roadside Prairies	\$ 345,000	Minnesota Department of Transportation	Ken Graeve				x								x
08g	Minnesota Bee and Beneficial Species Habitat Restoration	\$ 732,000	Pheasants Forever Inc	Steven Burdick				x								x

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08h	Mississippi and Vermillion River Restoration of Prairie, Savanna, and Forest Habitat - Phase Ten	\$ 213,000	Friends of the Mississippi River	Tom Lewanski				x					x		x
08i	Community Stewardship to Restore Urban Natural Resources - Phase Ten	\$ 524,000	Great River Greening	Wiley Buck			x	x					x		x
08j	Economic Assessment of Precision Conservation and Agriculture	\$ 400,000	Pheasants Forever Inc	Tanner Bruse			x	x					x		x
08k	Conservation Reserve Enhancement Program (CREP) Outreach and Implementation	\$ 6,000,000	Board of Water and Soil Resources	Tabor Hoek		x	x	x		x					x
08l	Conservation Reserve Enhancement Program (CREP)	\$ 13,500,000	Board of Water and Soil Resources	Open		x	x	x		x					x
Methods to Protect or Restore		\$ 24,283,000													
Subd. 09 Land Acquisition, Habitat, and Recreation (9 Appropriations - Subtotal = 14,532,000)															
09a	Metropolitan Regional Parks System Land Acquisition	\$ 1,500,000	Metropolitan Council	Deborah Streets Jensen					x						x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager												
09b	Scientific and Natural Areas Acquisition, Restoration, Citizen Science and Engagement	\$ 2,500,000	MN DNR	Peggy Booth	x	x		x	x					x		x
09c	Minnesota State Parks and State Trails Land Acquisition	\$ 1,500,000	MN DNR	Jennifer Christie					x							x
09d	Minnesota State Trails Acquisition, Development and Enhancement	\$ 1,038,000	MN DNR	Kent Skaar					x							x
09e	Native Prairie Stewardship and Prairie Bank Easement Acquisition	\$ 2,675,000	MN DNR	Judy Schulte		x		x						x		x
09f	Leech Lake Acquisition	\$ 1,500,000	Leech Lake Division of Resource Management	Levi Brown					x							x
09g	Mesabi Trail Development	\$ 2,269,000	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline					x							x
09h	Tower Trailhead Boat Landing and Habitat Improvement – Phase II	\$ 600,000	City of Tower	Linda Keith					x							x

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Subd.	Title	Total \$ Appropriated	Organization	Project Manager												
09i	Land Acquisition for Voyageurs National Park Crane Lake Visitors Center	\$ 950,000	Town of Crane Lake	Jim Janssen						x						x
Land Acquisition, Habitat and		\$ 14,532,000														
Subd. 10 Administration and Contract Agreement Reimbursement (2 Appropriations - Subtotal = \$1,340,000)																
10a	Contract Agreement Reimbursement	\$ 135,000	MN DNR	Katherine Sherman- Hoehn												x
10b	Legislative-Citizen Commission on Minnesota Resources (LCCMR) Administration	\$ 1,200,000	Legislative- Citizen Commission on Minnesota Resources	Susan Thornton												x
10c	Legislative Coordinating Commission Legacy Website	\$ 5,000	Legislative Coordinating Commission	Sally Olson												x
Agreement Reimbursement		\$ 1,340,000														
Total \$ Recommending =		\$ 64,250,000														
* Region of Impact designated in the State include Statewide,																