

Environment Natural Resources Trust Fund; Conference Committee Report SF2963

Senate Subd.	House Subd.	Title	Organization	Total LCCMR \$ Recommended FY2017	Senate S2963-1 \$ FY2017	House UES2963-1 \$ FY2017	Difference between Senate and House \$	Conference Committee Report	Difference between Conf and Senate \$
Subd. 03 Foundational Natural Resource Data and Information									
03a	03a	Data-Driven Pollinator Conservation Strategies	U of MN	520,000	520,000	520,000	-	520,000	-
03b	03b	Native Bee Surveys in Minnesota Prairie and Forest Habitats	MN DNR	600,000	600,000	600,000	-	600,000	-
03c	03c	Prairie Butterfly Conservation, Research, and Breeding - Phase II	Minnesota Zoological Garden	421,000	421,000	421,000	-	421,000	-
			MN DNR	329,000	329,000	329,000	-	329,000	-
03d	--	Statewide Monitoring Network for Changing Habitats in Minnesota	MN DNR	500,000	500,000	-	(500,000)	500,000	-
03e	03d	Completing National Wetland Inventory Update for Minnesota	MN DNR	1,500,000	1,500,000	1,500,000	-	1,500,000	-
03f	--	Minnesota Vegetative Buffer Assessment and Prioritization to Protect Water Quality	U of MN	170,000	170,000	-	(170,000)	-	(170,000)
03g	03e	Assessment Tool for Understanding Vegetation Growth Impacts on Groundwater Recharge	U of MN	212,000	212,000	212,000	-	212,000	-
03h	03f	Sentinel Lakes Monitoring and Data Synthesis – Phase III	MN DNR	401,000	401,000	401,000	-	401,000	-
03i	03g	State Spring Inventory for Resource Management and Protection - Phase II	MN DNR	370,000	370,000	370,000	-	370,000	-
03j	03h	Enhancing Understanding of Minnesota River Aquatic Ecosystem	MN DNR	500,000	500,000	500,000	-	500,000	-
03k	03i	Improving Brook Trout Stream Habitat Through Beaver Management	Minnesota State University - Bemidji	225,000	225,000	225,000	-	225,000	-
03l	03j	Evaluate Temperature, Streamflow, and Hydrogeology Impact on Brook Trout Habitat	Minnesota Geological Survey	115,000	115,000	115,000	-	115,000	-
03m	03k	Restoration of Elk to Northeastern Minnesota	U of MN	300,000	300,000	300,000	-	300,000	-
03n	03l	Game and Nongame Bird Pesticide Exposure	U of MN	349,000	349,000	349,000	-	349,000	-
03o	03m	Evaluating Insecticide Exposure Risk for Grassland Wildlife on Public Lands	MN DNR	250,000	250,000	250,000	-	250,000	-
03p	03n	Development of Innovative Cost-Saving Methodology for Forest Inventory	MN DNR	1,000,000	1,000,000	800,000	(200,000)	800,000	(200,000)
03q	03o	Evaluation of Tree Retention Guidelines Pertaining to Wildlife	U of MN - NRRI	232,000	232,000	232,000	-	232,000	-
03r	03p	Determine Impacts on Wildlife From Emerald Ash Borer Infection of Black Ash Forests	U of MN - NRRI	334,000	334,000	334,000	-	334,000	-
--	03q	Aggregate Mapping	MN DNR	-	-	1,500,000	1,500,000	1,500,000	1,500,000

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--	03r	Pineland Sands Lands and Water Study	MN DNR	-	-	1,500,000	1,500,000	1,500,000	1,500,000
--	03s	Natural Resources Research Institute	U of MN - NRRI	-	-	2,987,000	2,987,000	1,100,000	1,100,000
Foundational Natural Resource Data and Information Subtotal =				8,328,000	8,328,000	13,445,000	5,117,000	12,058,000	3,730,000
Subd. 04 Water Resources									
04a	04a	Tracking and Preventing Harmful Algal Blooms	Science Museum of Minnesota	500,000	500,000	500,000	-	500,000	-
04b	04b	Assessing the Increasing Harmful Algal Blooms in Minnesota Lakes	U of MN - St. Anthony Falls Laboratory	270,000	270,000	270,000	-	270,000	-
04c	04c	Restoring Native Mussels in Streams and Lakes	MN DNR	600,000	600,000	600,000	-	600,000	-
04d	04d	Assessing Techniques for Eliminating Contaminants to Protect Native Fish and Mussels	University of St Thomas	287,000	287,000	287,000	-	287,000	-
04e	04e	Assessing Neonicotinoid Insecticide Effects on Aquatic and Soil Communities	U of MN	400,000	400,000	400,000	-	400,000	-
04f	04f	Bacterial Assessment of Groundwater Supplies Used for Drinking Water	U of MN	299,000	299,000	299,000	-	299,000	-
04g	04g	Understanding Bedrock Fracture Flow to Improve Groundwater Quality	U of MN - MN Geological Survey	183,000	183,000	183,000	-	183,000	-
04h	04h	Protection of State's Confined Drinking Water Aquifers - Phase II	US Geological Survey	433,000	433,000	433,000	-	433,000	-
04i	--	Techniques for Water Storage Estimates in Central Minnesota	U of MN	250,000	250,000	-	(250,000)	-	(250,000)
04j	--	Assessment of Surface Water Quality With Satellite Sensors	U of MN	345,000	345,000	-	(345,000)	345,000	-
04k	04i	Development of Innovative Sensor Technologies for Water Monitoring	U of MN	509,000	509,000	509,000	-	509,000	-
04l	04j	Wastewater Treatment Process Improvements	U of MN	398,000	398,000	398,000	-	398,000	-
04m	04k	Membrane-Based Process for Decentralized Drinking Water Production	U of MN	191,000	191,000	191,000	-	191,000	-
04n	04l	Analyzing Alternative for Muncipal Wastewater Treatment	Minnesota Pollution Control	180,000	180,000	180,000	-	180,000	-
04o	04m	Understanding Impacts of Salt Usage on Minnesota Lakes, Rivers, and Groundwater	U of MN	497,000	497,000	497,000	-	497,000	-
04p	--	Microbes for Salt and Metal Removal	U of MN	596,000	596,000	-	(596,000)	596,000	-
04q	--	Engineered Biofilter for Sulfate and Metal Removal from Mine Waters	U of MN	440,000	440,000	-	(440,000)	440,000	-

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04r	04n	Developing Biosponge Technology for Removal of Nitrates from Minnesota Waters	U of MN	198,000	198,000	198,000	-	198,000	-
04s	04o	Morrison County Performance Drainage and Hydrology Management	Morrison SWCD	209,000	209,000	209,000	-	209,000	-
04t	04p	Agricultural and Urban Runoff Water Quality Treatment Analysis - Phase II	Blue Earth County Drainage Authority	110,000	110,000	110,000	-	110,000	-
04u	04q	Surface Water Bacterial Treatment System Pilot Project	Vadnais Lake Area Water Management Organization	500,000	500,000	500,000	-	500,000	-
04v	04r	Assessing Effectiveness of Wetland Restorations for Improved Water Quality	U of MN	420,000	420,000	420,000	-	420,000	-
04w	--	Assessing Climate Change Effects on Release of Mercury and Sulfur into Aquatic Ecosystems	U of MN	300,000	300,000	-	(300,000)	-	(300,000)
04x	04s	Integrating Targeted Watershed Planning Tools with Citizen Involvement	Minnesota State University - Mankato	169,000	169,000	169,000	-	169,000	-
04y	04t	Roseau Lake Watershed Targeted Water Quality Improvement	MN DNR	65,000	65,000	65,000	-	65,000	-
Water Resources Subtotal =				8,349,000	8,349,000	6,418,000	(1,931,000)	7,799,000	(550,000)
Subd. 05 Environmental Education									
05a	05a	Minnesota Conservation Apprentice Academy	Board of Water and Soil Resources	433,000	433,000	433,000	-	433,000	-
05b	05b	School Forests Outdoor Classrooms	MN DNR	440,000	440,000	440,000	-	440,000	-
05c	05c	Youth-Led Sustainability Projects in 50 Minnesota Communities – Phase III	Prairie Woods Environmental Learning Center	400,000	400,000	400,000	-	400,000	-
05d	--	New Prairie Sportsman Statewide Broadcast Video Project	Pioneer Public Television	300,000	300,000	-	(300,000)	300,000	-
05e	--	Workshops and Outreach for Nontoxic Ammunition Alternatives	U of MN	133,000	133,000	-	(133,000)	-	(133,000)
05f	05d	Wildlife and Habitat Conservation Education for Southwest Minnesota High Schools	Minnesota Zoo	147,000	147,000	147,000	-	147,000	-
05g	05e	Standards-Based Dakota Indian Land Stewardship Education	Dakota Wicohan	197,000	197,000	197,000	-	197,000	-
05h	05f	Wolf Management Education in the Classroom – Phase II	International Wolf Center	240,000	240,000	240,000	-	240,000	-
05i	05g	Master Water Steward Program Expansion	Freshwater Society	116,000	116,000	116,000	-	116,000	-
05j	05h	Promoting Water Quality Stewardship through Student Mentoring and River Monitoring	Minnesota State University - Southwest	39,000	39,000	39,000	-	39,000	-
05k	--	Analysis of Thermally Modified Wood Nesting Boxes for Birds	U of MN - Duluth NRRI	117,000	117,000	-	(117,000)	-	(117,000)

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--	05i	Wildlife Science Center	Wildlife Science Center	-	-	500,000	500,000	500,000	500,000
Environmental Education Subtotal =				2,562,000	2,562,000	2,512,000	(50,000)	2,812,000	250,000
Subd. 06 Aquatic and Terrestrial Invasive Species									
06a	06a	Minnesota Invasive Terrestrial Plants and Pests Center - Phase III	U of MN	3,750,000	3,750,000	3,750,000	-	3,750,000	-
06b	06b	Developing Membrane Filtration System to Treat Lake Superior Ballast Water	U of MN	151,000	151,000	151,000	-	151,000	-
06c	06c	Advancing Microbial Invasive Species Monitoring from Ballast Discharge	U of MN - Duluth	368,000	368,000	368,000	-	368,000	-
06d	06d	Biological Control of White Nose Syndrome in Bats - Phase II	U of MN	452,000	452,000	452,000	-	452,000	-
06e	06e	Elimination of Target Invasive Plant Species - Phase II	Minnesota Department of Agriculture	511,000	511,000	511,000	-	511,000	-
			U of MN	239,000	239,000	239,000	-	239,000	-
06f	--	Dutch Elm Disease Resistance - Phase II	U of MN	200,000	200,000	-	(200,000)	200,000	-
06g	06f	Invasive Carp Management Research in Lake Nokomis Subwatershed	Minneapolis Park and Recreation Board	189,000	189,000	189,000	-	189,000	-
Aquatic and Terrestrial Invasive Species Subtotal =				5,860,000	5,860,000	5,660,000	(200,000)	5,860,000	-
Subd. 07 Air Quality, Climate Change, and Renewable Energy									
07a	--	Solar Cells Manufacturing Research	U of MN	388,000	388,000	-	(388,000)	-	(388,000)
07b	07a	Community Solar Garden Installation	Rural Renewable Energy Alliance	490,000	490,000	490,000	-	490,000	-
07c	--	High-Resolution Climate Projections to Aid Local Planning and Implementation Efforts	U of MN	411,000	411,000	-	(411,000)	-	(411,000)
07d	--	Geotargeted Distributed Clean Energy Initiative	Center for Energy and Environment	800,000	800,000	-	(800,000)	-	(800,000)
07e	07b	Waste Heat Recovery with Efficient Thermoelectric Energy Generators	U of MN	400,000	400,000	400,000	-	400,000	-
07f	--	Hydrogen Fuel from Wind-Produced Renewable Ammonia	U of MN - Morris	400,000	400,000	-	(400,000)	250,000	(150,000)
07g	07c	Utilization of Dairy Farm Wastewater for Sustainable Production	U of MN - West Central Research and Outreach Center	500,000	500,000	300,000	(200,000)	475,000	(25,000)
07h	07d	Solar Energy Utilization for Minnesota Swine Farms – Phase II	U of MN - West Central Research and Outreach Center	500,000	500,000	300,000	(200,000)	475,000	(25,000)
Air Quality, Climate Change, and Renewable Energy				3,889,000	3,889,000	1,490,000	(2,399,000)	2,090,000	(1,799,000)

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Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat									
08a	08a	Bee Pollinator Habitat Enhancement - Phase II	U of MN	387,000	387,000	387,000	-	387,000	-
08b	--	Measuring Pollen and Seed Dispersal for Prairie Fragment Connectivity	U of MN	556,000	556,000	-	(556,000)	556,000	-
08c	08b	Establishment of Permanent Habitat Strips Within Row Crops	Science Museum of Minnesota	179,000	179,000	179,000	-	179,000	-
08d	08c	Evaluate Prescribed Burning Techniques to Improve Habitat Management for Brushland Species	U of MN	267,000	267,000	267,000	-	267,000	-
08e	08d	Controlling Reed Canary Grass to Regenerate Floodplain Forest	Minnesota State Office of National Audubon Society	218,000	218,000	218,000	-	218,000	-
08f	08e	Forest Management for Mississippi River Drinking Water Protection	Crow Wing SWCD	300,000	300,000	300,000	-	300,000	-
08g	08f	Upland, Wetland, and Shoreline Restoration in Greater Metropolitan Area	Great River Greening	509,000	509,000	509,000	-	509,000	-
08h	08g	Bluffland Restoration and Monitoring in Winona	Winona State University	99,000	99,000	99,000	-	99,000	-
08i	08h	Champlin Mill Pond Shoreland Restoration	City of Champlin	2,000,000	2,000,000	2,000,000	-	2,000,000	-
--	08i	Reinvest in Minnesota (RIM)	BWSR	-	-	2,214,000	2,214,000	-	-
--	08j	Pollinator Highway Demonstration Projects	MN DOT	-	-	2,200,000	2,200,000	2,200,000	2,200,000
Methods to Protect, Restore, and Enhance Land, Water, and Habitat Subtotal =				4,515,000	4,515,000	8,373,000	3,858,000	6,715,000	2,200,000
Subd. 09 Land Acquisition, Habitat, and Recreation									
09a	--	State Parks and Trails Land Acquisitions	MN DNR	2,445,000	2,445,000	-	(2,445,000)	-	(2,445,000)
09b	09a	Scientific and Natural Area Acquisition and Restoration	MN DNR	4,000,000	4,000,000	1,386,000	(2,614,000)	1,386,000	(2,614,000)
09c	--	Minnesota Point Pine Forest Scientific and Natural Area Acquisition	MN DNR	500,000	500,000	-	(500,000)	500,000	-
09d	09b	Conservation Easements in Avon Hills - Phase III	Saint Johns Arboretum and University	1,300,000	1,300,000	1,300,000	-	1,300,000	-
09e	--	Wilder Forest Acquisition	Washington County / Minnesota Food Association	500,000	500,000	-	(500,000)	-	(500,000)
09f	09c	Lincoln Pipestone Rural Water System Acquisition for Wellhead Protection	Lincoln Pipestone Rural Water System	1,500,000	1,500,000	1,500,000	-	1,500,000	-

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09g	09d	Mesabi Trail Segment from Highway 135 to Town of Embarrass	St. Louis & Lake Counties Regional Railroad Authority	1,200,000	1,200,000	1,200,000	-	1,200,000	-
09h	09e	Tower Historic Harbor Trail Connections	City of Tower	679,000	679,000	679,000	-	679,000	-
09i	09f	Otter Tail River Recreational Trail Acquisition	City of Fergus Falls	500,000	500,000	500,000	-	600,000	100,000
-	-	Douglas County Regional Park & Trail Planning, Development or Acquisition		-	-	-	-	400,000	400,000
--	09g	State Park and Trail Enhancement	City of Fergus Falls	-	-	1,500,000	1,500,000	1,228,000	1,228,000
Land Acquisition for Habitat and Recreation Subtotal =				12,624,000	12,624,000	8,065,000	(4,559,000)	8,793,000	(3,831,000)
Subd. 10 Emerging Issues Account									
--	10	Emerging Issues Account	LCCMR	-	-	164,000	164,000	-	-
Emerging Issues Account Subtotal =				-	-	164,000	164,000	-	-
Subd. 10 Administration									
10a	11a	Contract Agreement Reimbursement	MN DNR	135,000	135,000	135,000	-	135,000	-
10b	11b	Grants Management System	LCCMR	75,000	75,000	75,000	-	75,000	-
Administration Subtotal =				210,000	210,000	210,000	-	210,000	-
Total \$ Recommended =				46,337,000	46,337,000	46,337,000	-	46,337,000	-

* Region of Impact designated in the State include Statewide, Central, Metro, NE, NW, SE, SW. Metro region includes the 11 counties of Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Sherburne, Washington, and Wright.