

**M.L. 2019 Environment and Natural Resources Trust Fund (ENRTF)
LCCMR Appropriations for FY 2020**

On May 24, 2019, the legislature adopted 65 LCCMR recommendations as recommended, provided additional funds to two recommendations and modified one other. They also added 14 additional appropriations, primarily using funds freed up (\$2.94 million FY19; \$7.84 million FY20) following the repeal of M.L. 2018, Chapter 214, Article 6, Section 4 appropriation bonds. On May 31, 2019, 82 appropriations were signed into law by the Governor as M.L. 2019, First Special Session, Chapter 4, Article 2, for \$64,476,000 total appropriations (\$149,000 FY16, \$2,940,000 FY19, and \$61,387,000 FY20).

Topic Area	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Percentage of Total Appropriations
Subd. 03 Foundational Natural Resource Data and Information 20 Appropriations	\$15,405,000	\$0	\$1,804,000	\$13,601,000	23.89%
Subd. 04 Water Resources 20 Appropriations	\$5,565,000	\$149,000	\$0	\$5,416,000	8.63%
Subd. 05 Technical Assistance, Outreach, and Environmental Education 4 Appropriations	\$1,136,000	\$0	\$0	\$1,136,000	1.76%
Subd. 06 Aquatic and Terrestrial Invasive Species 4 Appropriations	\$5,400,000	\$0	\$0	\$5,400,000	8.38%
Subd. 07 Air Quality and Renewable Energy 4 Appropriations	\$1,485,000	\$0	\$0	\$1,485,000	2.30%
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat 7 Appropriations	\$6,766,000	\$0	\$806,000	\$5,960,000	10.49%
Subd. 09 Land Acquisition, Habitat, and Recreation 17 Appropriations	\$26,351,000	\$0	\$0	\$26,351,000	40.87%
Subd. 10 Administration and Contract Agreement Reimbursement 4 Appropriations	\$1,868,000	\$0	\$330,000	\$1,538,000	2.90%
Subd. 11 Wastewater Treatment Recommendations 2 Appropriations	\$500,000	\$0	\$0	\$500,000	0.78%
Total Appropriations	\$64,476,000	\$149,000	\$2,940,000	\$61,387,000	100.00%

Fund Source	\$ Amount
FY 2020 - Environment and Natural Resources Trust Fund (ENRTF)	\$61,387,000
FY 2019 - Environment and Natural Resources Trust Fund (ENRTF)	\$2,940,000
ENRTF Dollars Reallocated from 2016 Appropriations	\$149,000
Total \$	\$64,476,000

2019 Environment and Natural Resources Trust Fund (ENRTF) Appropriations
M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2

Subd.	Title	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Project Manager	Organization	Region of Impact*
Subd. 03 Foundational Natural Resource Data and Information (20 Appropriations - Subtotal = \$15,405,000)								
03a	Minnesota Biological Survey	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000	Bruce Carlson	MN DNR	Statewide
03b	Restoring Native Mussels in Streams and Lakes	\$ 500,000	\$ -	\$ -	\$ 500,000	Mike Davis	MN DNR	Statewide
03c	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	\$ 250,000	\$ -	\$ -	\$ 250,000	Matthew Etterson	Hawk Ridge Bird Observatory	NE
03d	Minnesota Trumpeter Swan Migration Ecology and Conservation	\$ 300,000	\$ -	\$ -	\$ 300,000	David Andersen	U of MN	Statewide
03e	Spruce Grouse as Indicators for Boreal Forest Connectivity	\$ 350,000	\$ -	\$ -	\$ 350,000	Julia Ponder	U of MN - Raptor Center	NE, NW
03f	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	\$ 400,000	\$ -	\$ -	\$ 400,000	Tiffany Wolf	U of MN	NE
03g	Mapping Habitat Use and Disease of Urban Carnivores	\$ 500,000	\$ -	\$ -	\$ 500,000	Nicholas McCann	U of MN	Metro
03h	Accelerated Aggregate Resource Mapping	\$ 700,000	\$ -	\$ -	\$ 700,000	Heather Arends	MN DNR	SW
03i	Den Boxes for Fishers and other Nesting Wildlife	\$ 190,000	\$ -	\$ -	\$ 190,000	Michael Joyce	U of MN - Duluth NRRRI	Central, Metro, NE, NW
03j	Red-headed Woodpeckers as Indicators of Oak Savanna Health	\$ 171,000	\$ -	\$ -	\$ 171,000	David Andersen	U of MN	Central
03k	Implementing Conservation Plans for Avian Species of Concern	\$ 124,000	\$ -	\$ -	\$ 124,000	Nathaniel Miller	Audubon Minnesota	Statewide
03l	Mapping Aquatic Habitats for Moose	\$ 199,000	\$ -	\$ -	\$ 199,000	Joseph Bump	U of MN	NE
03m	Improving Statewide GIS Data by Restoring the Public Land Survey	\$ 135,000	\$ -	\$ -	\$ 135,000	Patrick Veraguth	Minnesota Association of County Surveyors	Central
03n	County Geologic Atlases - Part A, Mapping Geology	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	Barbara Lusardi	U of MN - MN Geological Survey	Statewide
03o	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	\$ 2,400,000	\$ -	\$ -	\$ 2,400,000	Paul Putzier	MN DNR	Statewide
03p	Unlocking the Science of Minnesota's Moose Decline	\$ 199,000	\$ -	\$ -	\$ 199,000	Nicole Mattson	Minnesota Zoological Garden	Statewide
03q	Forest and Bioeconomy Research	\$ 2,200,000	\$ -	\$ -	\$ 2,200,000	Rolf Weberg	U of MN - Duluth NRRRI	Statewide
03r	Minerals and Water Research	\$ 883,000	\$ -	\$ -	\$ 883,000	Rolf Weberg	U of MN - Duluth NRRRI	Statewide
03s	Native Bee Survey	\$ 600,000	\$ -	\$ -	\$ 600,000	Jessica Peterson	MN DNR	Central, NE, NW
03t	Diagnostic Test for Chronic Wasting Disease	\$ 1,804,000	\$ -	\$ 1,804,000	\$ -	Peter Larsen	U of MN	Statewide
Foundational Natural Resource Data and Information		\$ 15,405,000	\$ -	\$ 1,804,000	\$ 13,601,000			
Subd. 04 Water Resources (20 Appropriations - Subtotal = \$5,565,000)								
04a	Determining Influence of Insecticides on Algal Blooms	\$ 350,000	\$ -	\$ -	\$ 350,000	William Arnold	U of MN	Statewide

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Subd.	Title	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Project Manager	Organization	Region of Impact*
04b	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	\$ 415,000	\$ -	\$ -	\$ 415,000	William Arnold	U of MN	Statewide
04c	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	\$ 200,000	\$ -	\$ -	\$ 200,000	Laura Babcock	U of MN	Statewide
04d	Quantifying Microplastics in Minnesota's Inland Lakes	\$ 200,000	\$ -	\$ -	\$ 200,000	Kathryn Schreiner	U of MN - Duluth	Statewide
04e	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	\$ 325,000	\$ -	\$ -	\$ 325,000	Paige Novak	U of MN	Statewide
04f	Improving Drinking Water for Minnesotans through Pollution Prevention	\$ 345,000	\$ -	\$ -	\$ 345,000	Raymond Hozalski	U of MN	Metro
04g	Protecting Minnesota Waters by Removing Contaminants from Wastewater	\$ 250,000	\$ -	\$ -	\$ 250,000	Matt Simcik	U of MN	Statewide
04h	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	\$ 250,000	\$ -	\$ -	\$ 250,000	Scott Kyser	Minnesota Pollution Control Agency	NE
04i	Extracting Deicing Salt from Roadside Soils with Plants	\$ 360,000	\$ -	\$ -	\$ 360,000	Bo Hu	U of MN	Statewide
04j	Transformation of Plastic Waste into Valued Resource	\$ 225,000	\$ -	\$ -	\$ 225,000	Brett Barney	U of MN	Statewide
04k	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	\$ 440,000	\$ -	\$ -	\$ 440,000	Dennis Fuchs	Stearns County Soil and Water Conservation District	Central
04l	Farm-Ready Cover Crops for Protecting Water Quality	\$ 741,000	\$ -	\$ -	\$ 741,000	Keith Olander	Central Lakes College - Ag and Energy Ctr	Central, Metro, NW, SE, SW
04m	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	\$ 350,000	\$ -	\$ -	\$ 350,000	John Nieber	U of MN	SE
04n	Mapping Unprofitable Cropland for Water and Wildlife	\$ 100,000	\$ -	\$ -	\$ 100,000	Jason Ulrich	Science Museum of Minnesota - St. Croix Research Station	Statewide
04o	Evaluating Locally Sourced Materials for Road Salt Reduction	\$ 162,000	\$ -	\$ -	\$ 162,000	Chanlan Chun	U of MN - Duluth NRRRI	Statewide
04p	Minnesota Spring Inventory Final Phase	\$ 71,000	\$ -	\$ -	\$ 71,000	Paul Putzier	MN DNR	Statewide
04q	Restoring Impaired Lakes through Citizen-Aided Carp Management	\$ 106,000	\$ -	\$ -	\$ 106,000	Andrew Dickhart	Carver County Water Management Organization	Metro
04r	Spring Biological Nitrate Removal to Protect Drinking Water	\$ 175,000	\$ -	\$ -	\$ 175,000	Troy Nemmers	City of Fairmont	SW
04s	Degrading Chlorinated Industrial Contaminants with Bacteria	\$ 150,000	\$ 149,000	\$ -	\$ 1,000	Paige Novak	U of MN	Statewide

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M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2

Subd.	Title	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Project Manager	Organization	Region of Impact*
04t	Managed Aquifer Recharge	\$ 350,000	\$ -	\$ -	\$ 350,000	John Bilotta	U of MN - Water Resources Center	Statewide
Water Resources Subtotal =		\$ 5,565,000	\$ 149,000	\$ -	\$ 5,416,000			
Subd. 05 Technical Assistance, Outreach, and Environmental Education (4 Appropriations - Subtotal = \$1,136,000)								
05a	Expanding Camp Sunrise Environmental Program	\$ 237,000	\$ -	\$ -	\$ 237,000	Lori Arnold	YouthCARE MN	Metro
05b	Connecting Students to the Boundary Waters	\$ 450,000	\$ -	\$ -	\$ 450,000	Chris Knopf	Friends of the Boundary Waters Wilderness	Statewide
05c	Mississippi National River and Recreation Area Forest Restoration	\$ 199,000	\$ -	\$ -	\$ 199,000	Mary Hammes	Mississippi Park Connection	Metro
05d	Increasing Diversity in Environmental Careers	\$ 250,000	\$ -	\$ -	\$ 250,000	Mimi Daniel	MN DNR	Statewide
Technical Assistance, Outreach, and Environmental Education		\$ 1,136,000	\$ -	\$ -	\$ 1,136,000			
Subd. 06 Aquatic and Terrestrial Invasive Species (4 Appropriations - Subtotal = \$5,400,000)								
06a	Building Knowledge and Capacity to Solve AIS Problems	\$ 4,000,000	\$ -	\$ -	\$ 4,000,000	Nicholas Phelps	U of MN - MAISRC	Statewide
06b	Oak Wilt Suppression at its Northern Edge	\$ 100,000	\$ -	\$ -	\$ 100,000	Shannon Wettstein	Morrison Soil and Water Conservation District	Central
06c	Noxious Weed Detection and Eradication	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	Mark Abrahamson	Minnesota Department of Agriculture	Statewide
06d	Emerald Ash Borer Response Grants	\$ 300,000	\$ -	\$ -	\$ 300,000	Valerie McClannahan	MN DNR	Statewide
Aquatic and Terrestrial Invasive Species Subtotal =		\$ 5,400,000	\$ -	\$ -	\$ 5,400,000			
Subd. 07 Air Quality and Renewable Energy (4 Appropriations - Subtotal = \$1,485,000)								
07a	Development of Clean Energy Storage Systems for Farms	\$ 650,000	\$ -	\$ -	\$ 650,000	William Northrop	U of MN - WCROC	Statewide
07b	White Earth Nation Community Solar for Economic Resilience	\$ 500,000	\$ -	\$ -	\$ 500,000	Vicki O'Day	Rural Renewable Energy Alliance	NE, NW
07c	Sustainable Solar Energy from Agricultural Plant By-Products	\$ 185,000	\$ -	\$ -	\$ 185,000	Ted Pappenfus	U of MN - Morris	Statewide
07d	Morris Energy and Environment Community Resilience Plan	\$ 150,000	\$ -	\$ -	\$ 150,000	Blaine Hill	City of Morris	Statewide
Air Quality and Renewable Energy Subtotal =		\$ 1,485,000	\$ -	\$ -	\$ 1,485,000			
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat (7 Appropriations - Subtotal = \$6,766,000)								
08a	Saving Endangered Pollinators through Data-Driven Prairie Restoration	\$ 800,000	\$ -	\$ -	\$ 800,000	Erik Runquist	Minnesota Zoological Garden	Central, Metro, NW, SW
08b	Promoting and Restoring Oak Savanna Using Silvopasture	\$ 750,000	\$ -	\$ -	\$ 750,000	Diomy Zamora	U of MN	Statewide

**2019 Environment and Natural Resources Trust Fund (ENRTF) Appropriations
M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2**

Subd.	Title	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Project Manager	Organization	Region of Impact*
08c	Sauk River Dam Removal and Rock Rapids Replacement	\$ 2,768,000	\$ -	\$ -	\$ 2,768,000	Tessa Beuning	City of Melrose	Central
08d	Conserving and Monitoring of Minnesota's Rare Arctic Plants	\$ 135,000	\$ -	\$ -	\$ 135,000	Briana Gross	U of MN - Duluth	NE
08e	Nongame Wildlife Program Acceleration	\$ 513,000	\$ -	\$ -	\$ 513,000	Cynthia Osmundson	MN DNR	Statewide
08f	Lawns to Legumes	\$ 900,000	\$ -	\$ 806,000	\$ 94,000	Angie Becker-Kudelka	BWSR	Statewide
08g	Agricultural Weed Control Using Autonomous Mowers	\$ 900,000	\$ -	\$ -	\$ 900,000	Eric Buchanan	U of MN - Morris	Central
Methods to Protect or Restore Land, Water, and Habitat		\$ 6,766,000	\$ -	\$ 806,000	\$ 5,960,000			
Subd. 09 Land Acquisition, Habitat, and Recreation (17 Appropriations - Subtotal = \$26,351,000)								
09a	Minnesota Scientific and Natural Areas	\$ 3,500,000	\$ -	\$ -	\$ 3,500,000	Judy Schulte	MN DNR	Statewide
09b	Grants for Local Parks, Trails and Natural Areas	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	Audrey Mularie	MN DNR	Statewide
09c	Minnesota State Parks and State Trails In-Holdings	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	Jennifer Christie	MN DNR	Statewide
09d	Minnesota State Trails Development	\$ 5,000,000	\$ -	\$ -	\$ 5,000,000	Kent Skaar	MN DNR	Statewide
09e	National Loon Center	\$ 4,000,000	\$ -	\$ -	\$ 4,000,000	Leah Heggerston	National Loon Center Foundation	Central
09f	Accessible Fishing Piers	\$ 320,000	\$ -	\$ -	\$ 320,000	Nancy Stewart	MN DNR	Statewide
09g	Mesabi Trail Extensions	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	Bob Manzoline	St. Louis & Lake Counties Regional Railroad Authority	NE
09h	Birch Lake Recreation Area Campground	\$ 350,000	\$ -	\$ -	\$ 350,000	Cathy Bissonette	City of Babbitt	NE
09i	Britton Peak to Lutsen Mountain Bike Trail	\$ 350,000	\$ -	\$ -	\$ 350,000	Tim Kennedy	Superior Cycling Association	NE
09j	Preserving the Avon Hills with Reverse-Bidding Easements	\$ 1,600,000	\$ -	\$ -	\$ 1,600,000	John Geissler	Saint Johns University	Central
09k	Bailey Lake Trail and Fishing Pier	\$ 550,000	\$ -	\$ -	\$ 550,000	Britt See-Benes	City of Virginia	NE
09l	Vergas Long Lake Trail	\$ 290,000	\$ -	\$ -	\$ 290,000	Julie Lammers	City of Vergas	NW
09m	Glacial Edge Trail and Downtown Pedestrian Bridge	\$ 600,000	\$ -	\$ -	\$ 600,000	Ryan Miller	City of Fergus Falls	NW
09n	Crane Lake to Vermilion Falls Trail	\$ 400,000	\$ -	\$ -	\$ 400,000	Bruce Beste	Voyageur Country ATV	NE
09o	Restoring Five Sections of the Superior Hiking Trail	\$ 191,000	\$ -	\$ -	\$ 191,000	Denny Caneff	Superior Hiking Trail Association	NE
09p	Rainy Lake Recreational Access and Boat Wash Station	\$ 200,000	\$ -	\$ -	\$ 200,000	Sherril Gautreaux	City of Ranier	NE
09q	Historic Bruce Mine Park and Mesabi Trailhead	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	Bob Manzoline	St. Louis & Lake Counties Regional Railroad Authority	NE

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Subd.	Title	Total LCCMR \$ Appropriated	FY2016 Reallocated \$	FY2019 Trust Fund \$	FY2020 Trust Fund \$	Project Manager	Organization	Region of Impact*
Land Acquisition, Habitat, and Recreation Subtotal =		\$ 26,351,000	\$ -	\$ -	\$ 26,351,000			
Subd. 10 Administration and Contract Agreement Reimbursement (4 Appropriations - Subtotal = \$1,868,000)								
10a	Contract Agreement Reimbursement	\$ 135,000	\$ -	\$ -	\$ 135,000	Katherine Sherman-Hoehn	MN DNR	Statewide
10b	LCCMR Administration	\$ 1,400,000	\$ -	\$ -	\$ 1,400,000	Becca Nash	Legislative-Citizen Commission on Minnesota Resources	Statewide
10c	LCC Administration	\$ 3,000	\$ -	\$ -	\$ 3,000	Sally Olson	Legislative Coordinating Commission	Statewide
10d	Grants Management System	\$ 330,000	\$ -	\$ 330,000	\$ -	Becca Nash	Legislative-Citizen Commission on Minnesota Resources	Statewide
Administration and Contract Agreement Reimbursement		\$ 1,868,000	\$ -	\$ 330,000	\$ 1,538,000			
Subd. 11 Wastewater Treatment Recommendations (2 Appropriations - Subtotal = \$500,000)								
11a**	Water Infrastructure Loans	\$ -	\$ -	\$ -	\$ -	Jeff Freeman	Public Facilities Authority	Statewide
11b	Optimizing Local Mechanical and Pond Wastewater-Treatment Plants	\$ 500,000	\$ -	\$ -	\$ 500,000	Joel Peck	MPCA	Statewide
Wastewater Treatment Recommendations Subtotal =		\$ 500,000	\$ -	\$ -	\$ 500,000			
Total \$ Appropriated =		\$ 64,476,000	\$ 149,000	\$ 2,940,000	\$ 61,387,000			

* 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,

** Subd. 11a "Water Infrastructure Funding Program" - Up to \$5,000,000 of the money in the trust fund is available to the State Board of Investment to invest in loans through the Public Facilities Authority's clean water revolving fund under Minnesota Statutes, section 446A.07. This project will be reflected in the overall appropriations count, but the loan money will not be included in the total dollars.