

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND  
1ST SPECIAL SESSION-Chapter 4, Article 2

						LCCMR Recommendations as of 12-4-2019			House HF2032 2E				Senate SF2314 Art. 2				1st SS, Ch. 4, Art. 2				Change from LCCMR Recs.	Change from House	Change from Senate	
Subd.	Proposal ID	Title	Organization	Program Manager	Region	Trust Fund \$ FY2019	Trust Fund \$ FY2020	Total LCCMR \$ Recommended	Subd.	Trust Fund \$ FY2019	Trust Fund \$ FY2020	Total ENRTF \$	Subd.	Trust Fund \$ FY2019	Trust Fund \$ FY2020	Total ENRTF \$	Subd.	Trust Fund \$ FY2019	Trust Fund \$ FY2020	Total ENRTF \$				
Subd. 03 Foundational Natural Resource Data and Information									(17 recommendations=\$10,554,000)				(12 recommendations=\$9,204,000)				(20 recommendations=\$15,405,000)							
03a	001-A	Minnesota Biological Survey	MN DNR	Bruce Carlson	Statewide	\$	-	\$ 1,500,000	\$ 1,500,000	03a	\$	-	\$ 1,500,000	\$ 1,500,000	03a	\$	-	\$ 1,500,000	\$ 1,500,000	03a	\$	-	\$ 1,500,000	\$ 1,500,000
03b	003-A	Restoring Native Mussels in Streams and Lakes	MN DNR	Mike Davis	Statewide	\$	-	\$ 500,000	\$ 500,000	03b	\$	-	\$ 500,000	\$ 500,000	03b	\$	-	\$ 500,000	\$ 500,000	03b	\$	-	\$ 500,000	\$ 500,000
03c	005-A	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	Hawk Ridge Bird Observatory	Matthew Etterson	Statewide, NE	\$	-	\$ 250,000	\$ 250,000	03c	\$	-	\$ 250,000	\$ 250,000		\$	-	\$ -	\$ -	03c	\$	-	\$ 250,000	\$ 250,000
03d	014-A	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	David Andersen	Statewide	\$	-	\$ 300,000	\$ 300,000	03d	\$	-	\$ 300,000	\$ 300,000	03c	\$	-	\$ 300,000	\$ 300,000	03d	\$	-	\$ 300,000	\$ 300,000
03e	016-A	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	Julia Ponder	NW, NE	\$	-	\$ 350,000	\$ 350,000	03e	\$	-	\$ 350,000	\$ 350,000		\$	-	\$ -	\$ -	03e	\$	-	\$ 350,000	\$ 350,000
03f	018-A	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	Tiffany Wolf	NE	\$	-	\$ 400,000	\$ 400,000	03f	\$	-	\$ 400,000	\$ 400,000	03d	\$	-	\$ 400,000	\$ 400,000	03f	\$	-	\$ 400,000	\$ 400,000
03g	025-A	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	Nicholas McCann	Metro	\$	-	\$ 500,000	\$ 500,000	03g	\$	-	\$ 500,000	\$ 500,000		\$	-	\$ -	\$ -	03g	\$	-	\$ 500,000	\$ 500,000
03h	027-A	Accelerated Aggregate Resource Mapping	MN DNR	Heather Arends	SW	\$	-	\$ 700,000	\$ 700,000	03h	\$	-	\$ 700,000	\$ 700,000	03e	\$	-	\$ 700,000	\$ 700,000	03h	\$	-	\$ 700,000	\$ 700,000
03i	032-AH	Den Boxes for Fishers and Other Nesting Wildlife	U of MN - Duluth NRRI	Michael Joyce	Central, Metro, NW, NE	\$	-	\$ 190,000	\$ 190,000	03i	\$	-	\$ 190,000	\$ 190,000		\$	-	\$ -	\$ -	03i	\$	-	\$ 190,000	\$ 190,000
03j	034-AH	Red-headed Woodpeckers as Indicators of Oak Savanna Health	U of MN	David Andersen	Central	\$	-	\$ 171,000	\$ 171,000	03j	\$	-	\$ 171,000	\$ 171,000	03f	\$	-	\$ 171,000	\$ 171,000	03j	\$	-	\$ 171,000	\$ 171,000
03k	035-AH	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	Nathaniel Miller	Statewide	\$	-	\$ 124,000	\$ 124,000	03k	\$	-	\$ 124,000	\$ 124,000		\$	-	\$ -	\$ -	03k	\$	-	\$ 124,000	\$ 124,000
03l	038-AH	Mapping Aquatic Habitats for Moose	U of MN	Joseph Bump	NE	\$	-	\$ 199,000	\$ 199,000	03l	\$	-	\$ 199,000	\$ 199,000	03g	\$	-	\$ 199,000	\$ 199,000	03l	\$	-	\$ 199,000	\$ 199,000
03m	046-AH	Improving Statewide GIS Data by Restoring the Public Land Survey	Minnesota Association of County Surveyors	Patrick Veraguth	Central	\$	-	\$ 135,000	\$ 135,000	03m	\$	-	\$ 135,000	\$ 135,000	03h	\$	-	\$ 135,000	\$ 135,000	03m	\$	-	\$ 135,000	\$ 135,000
03n	002-A	County Geologic Atlases - Part A, Mapping Geology	U of MN - MN Geological Survey	Barbara Lusardi	Statewide	\$	-	\$ 2,000,000	\$ 2,000,000	03n	\$	-	\$ 2,000,000	\$ 2,000,000	03i	\$	-	\$ 500,000	\$ 500,000	03n	\$	-	\$ 2,000,000	\$ 2,000,000
03o	275-J	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	MN DNR	Paul Putzier	Statewide	\$	-	\$ 2,400,000	\$ 2,400,000	03o	\$	-	\$ 2,400,000	\$ 2,400,000		\$	-	\$ -	\$ -	03o	\$	-	\$ 2,400,000	\$ 2,400,000
03p	274-J	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoological Garden	Nicole Mattson	Statewide	\$	-	\$ 199,000	\$ 199,000	03p	\$	-	\$ 199,000	\$ 199,000	03j	\$	-	\$ 199,000	\$ 199,000	03p	\$	-	\$ 199,000	\$ 199,000
		Forest and Bioeconomy Research				\$	-	\$ -	\$ -	03q	\$	636,000	\$ -	\$ 636,000		\$	-	\$ -	\$ -	03q	\$	-	\$ 2,200,000	\$ 2,200,000
		Minerals and Water Research				\$	-	\$ -	\$ -		\$	-	\$ -	\$ -	03k	\$	-	\$ 2,200,000	\$ 2,200,000	03r	\$	-	\$ 883,000	\$ 883,000
		Native Bee Survey				\$	-	\$ -	\$ -		\$	-	\$ -	\$ -	03l	\$	-	\$ 2,400,000	\$ 2,400,000	03s	\$	-	\$ 600,000	\$ 600,000
		Diagnostic Test for Chronic Wasting Disease				\$	-	\$ -	\$ -										03t	\$	1,804,000	\$ -	\$ 1,804,000	
Foundational Natural Resource Data and Information Subtotal =						\$0	\$9,918,000	\$9,918,000		\$	636,000	\$ 9,918,000	\$ 10,554,000		\$	-	\$ 9,204,000	\$ 9,204,000		\$	1,804,000	\$ 13,601,000	\$ 15,405,000	
Subd. 04 Water Resources									(19 recommendations=\$5,215,000)				(16 recommendations=\$4,469,000)				(20 recommendations=\$5,565,000)							
04a	048-B	Determining the Influence of Insecticides on Algal Blooms	U of MN	William Arnold	Statewide	\$	-	\$ 350,000	\$ 350,000	04a	\$	-	\$ 350,000	\$ 350,000	04a	\$	-	\$ 350,000	\$ 350,000	04a	\$	-	\$ 350,000	\$ 350,000
04b	049-B	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	William Arnold	Statewide	\$	-	\$ 415,000	\$ 415,000	04b	\$	-	\$ 415,000	\$ 415,000	04b	\$	-	\$ 415,000	\$ 415,000	04b	\$	-	\$ 415,000	\$ 415,000
04c	050-B	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	Laura Babcock	Statewide	\$	-	\$ 200,000	\$ 200,000	04c	\$	-	\$ 200,000	\$ 200,000	04c	\$	-	\$ 200,000	\$ 200,000	04c	\$	-	\$ 200,000	\$ 200,000
04d	051-B	Quantifying Microplastics in Minnesota's Inland Lakes	U of MN - Duluth	Kathryn Schreiner	Statewide	\$	-	\$ 200,000	\$ 200,000	04d	\$	-	\$ 200,000	\$ 200,000		\$	-	\$ -	\$ -	04d	\$	-	\$ 200,000	\$ 200,000
04e	052-B	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	Paige Novak	Statewide	\$	-	\$ 325,000	\$ 325,000	04e	\$	-	\$ 325,000	\$ 325,000	04d	\$	-	\$ 325,000	\$ 325,000	04e	\$	-	\$ 325,000	\$ 325,000
04f	054-B	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	Raymond Hozalski	Metro	\$	-	\$ 345,000	\$ 345,000	04f	\$	-	\$ 345,000	\$ 345,000	04e	\$	-	\$ 345,000	\$ 345,000	04f	\$	-	\$ 345,000	\$ 345,000
04g	055-B	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	Matt Simcik	Statewide	\$	-	\$ 250,000	\$ 250,000	04g	\$	-	\$ 250,000	\$ 250,000	04f	\$	-	\$ 250,000	\$ 250,000	04g	\$	-	\$ 250,000	\$ 250,000
04h	058-B	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	Scott Kyser	NE	\$	-	\$ 250,000	\$ 250,000	04h	\$	-	\$ 250,000	\$ 250,000	04g	\$	-	\$ 250,000	\$ 250,000	04h	\$	-	\$ 250,000	\$ 250,000
04i	062-B	Extracting Deicing Salt from Roadside Soils with Plants	U of MN	Bo Hu	Statewide	\$	-	\$ 360,000	\$ 360,000	04i	\$	-	\$ 360,000	\$ 360,000		\$	-	\$ -	\$ -	04i	\$	-	\$ 360,000	\$ 360,000
04j	064-B	Transformation of Plastic Waste into a Valued Resource	U of MN	Brett Barney	Statewide	\$	-	\$ 225,000	\$ 225,000	04j	\$	-	\$ 225,000	\$ 225,000		\$	-	\$ -	\$ -	04j	\$	-	\$ 225,000	\$ 225,000
04k	072-B	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation District	Dennis Fuchs	Central	\$	-	\$ 440,000	\$ 440,000	04k	\$	-	\$ 440,000	\$ 440,000	04h	\$	-	\$ 440,000	\$ 440,000	04k	\$	-	\$ 440,000	\$ 440,000
04l	076-B	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Ctr	Keith Olander	Central, Metro, NW, SW, SE	\$	-	\$ 741,000	\$ 741,000	04l	\$	-	\$ 741,000	\$ 741,000	04i	\$	-	\$ 741,000	\$ 741,000	04l	\$	-	\$ 741,000	\$ 741,000
04m	077-B	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	U of MN	John Nieber	SE	\$	-	\$ 350,000	\$ 350,000	04m	\$	-	\$ 350,000	\$ 350,000	04j	\$	-	\$ 350,000	\$ 350,000	04m	\$	-	\$ 350,000	\$ 350,000

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Water Resources Subtotal =	\$0	\$5,066,000	\$5,215,000
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\$	-	\$ 5,066,000	\$ 5,215,000
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\$	-	\$ 4,469,000	\$ 4,618,000
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\$	-	\$ 5,416,000	\$ 5,565,
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09j	264-G	Birch Lake Recreation Area Campground	City of Babbitt	Cathy Bissonette	NE	\$	-	\$ 350,000	\$ 350,000
09h	256-G	Britton Peak to Lutsen Mountain Bike Trail	Superior Cycling Association	Tim Kennedy	NE	\$	-	\$ 300,000	\$ 300,000
09i	257-G	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	John Geissler	Central	\$	-	\$ 1,600,000	\$ 1,600,000
09k	265-G	Bailey Lake Trail and Fishing Pier	City of Virginia	Britt See-Benes	NE	\$	-	\$ 550,000	\$ 550,000
09l	266-G	Vergas Long Lake Trail	City of Vergas	Julie Lammers	NW	\$	-	\$ 290,000	\$ 290,000
09m	269-G	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	Ryan Miller	NW	\$	-	\$ 600,000	\$ 600,000
09n	271-G	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	Bruce Beste	NE	\$	-	\$ 400,000	\$ 400,000
09o	272-GH	Restoring Five Sections of the Superior Hiking Trail	Superior Hiking Trail Association	Denny Caneff	NE	\$	-	\$ 191,000	\$ 191,000
		Rainy Lake Recreational Access and Boat Wash							
		Bruce Mine Park and Mesabi Trailhead							
		Natvie Prairie Bank				\$	-	\$ -	\$ -
						\$	-	\$ -	\$ -
Land Acquisition, Habitat, and Recreation Subtotal =						\$	-	\$ 25,101,000	\$ 25,101,000
Subd. 10 Administration and Contract Agreement Reimbursement						(3 recommendations=\$1,538,000)			
10a	273-I	Contract Agreement Reimbursement	MN DNR	Katherine Sherman-Hoehn	Statewide		\$	135,000	\$ 135,000
10b	---	LCCMR Administration	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	Statewide	\$	-	\$ 1,400,000	\$ 1,400,000
10c	---	LCC Administration	Legislative Coordinating Commission	Sally Olson	Statewide	\$	-	\$ 3,000	\$ 3,000
		Grants Management System				\$	-	\$ -	\$ -
Administration and Contract Agreement Reimbursement Subtotal =						\$	-	\$ 1,538,000	\$ 1,538,000
Subd. 11 Wastewater Treatment Recommendations						(2 recommendations=\$2,000,000)			
11a	---	Water Infrastructure Funding Program	Public Facilities Authority	Jeff Freeman	Statewide	\$	-	\$ 1,500,000	\$ 1,500,000
11b	---	Optimization of Local Mechanical and Pond Wastewater-Treatment Plants	Minnesota Pollution Control Agency	Joel Peck	Statewide	\$	-	\$ 500,000	\$ 500,000
Wastewater Treatment Recommendations Subtotal =						\$	-	\$ 2,000,000	\$ 2,000,000
Total \$ Recommendations =						\$	-	\$ 53,547,000	\$ 53,696,000

09j	\$ 350,000	\$ 350,000	\$ 700,000
09h	\$ 50,000	\$ 300,000	\$ 350,000
09i	\$ -	\$ 1,600,000	\$ 1,600,000
09k	\$ -	\$ 550,000	\$ 550,000
09l	\$ -	\$ 290,000	\$ 290,000
09m	\$ -	\$ 600,000	\$ 600,000
09n	\$ -	\$ 400,000	\$ 400,000
09o	\$ -	\$ 191,000	\$ 191,000
09p	\$ -	\$ 3,406,000	\$ 3,406,000
09q	\$ 200,000	\$ -	\$ 200,000
\$ 1,724,000		\$ 33,661,000	\$ 35,385,000
(4 recommendations=\$1,868,000)			
10a	\$ -	\$ 135,000	\$ 135,000
10b	\$ -	\$ 1,400,000	\$ 1,400,000
10c	\$ -	\$ 3,000	\$ 3,000
10d	\$ 330,000	\$ -	\$ 330,000
\$ 330,000		\$ 1,538,000	\$ 1,868,000
(1 recommendations=\$500,000)			
11a	\$ -	\$ -	\$ -
11b	\$ -	\$ 500,000	\$ 500,000
\$ -		\$ 500,000	\$ 500,000
\$ 2,940,000		\$ 61,387,000	\$ 64,476,000

09f	\$ -	\$ 350,000	\$ 350,000
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
09g	\$ -	\$ 550,000	\$ 550,000
09h	\$ -	\$ 290,000	\$ 290,000
09i	\$ -	\$ 600,000	\$ 600,000
09j	\$ -	\$ 400,000	\$ 400,000
09k	\$ -	\$ 191,000	\$ 191,000
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
\$ -		\$ 26,797,000	\$ 26,797,000
(3 recommendations=\$1,538,000)			
10a	\$ -	\$ 135,000	\$ 135,000
10b	\$ -	\$ 1,400,000	\$ 1,400,000
10c	\$ -	\$ 3,000	\$ 3,000
	\$ -	\$ -	\$ -
\$ -		\$ 1,538,000	\$ 1,538,000
(3 recommendations=\$10,976,000)			
11a & 12b	\$ 1,136,000	\$ 9,340,000	\$ 10,476,000
11b	\$ -	\$ 500,000	\$ 500,000
\$ 1,136,000		\$ 9,840,000	\$ 10,976,000
\$ 2,940,000		\$ 61,387,000	\$ 64,476,000

09j	\$ -	\$ 350,000	\$ 350,000	\$ -	\$ (350,000)	\$ -
09h	\$ -	\$ 350,000	\$ 350,000	\$ 50,000	\$ -	\$ 350,000
09i	\$ -	\$ 1,600,000	\$ 1,600,000	\$ -	\$ -	\$ 1,600,000
09k	\$ -	\$ 550,000	\$ 550,000	\$ -	\$ -	\$ -
09l	\$ -	\$ 290,000	\$ 290,000	\$ -	\$ -	\$ -
09m	\$ -	\$ 600,000	\$ 600,000	\$ -	\$ -	\$ -
09n	\$ -	\$ 400,000	\$ 400,000	\$ -	\$ -	\$ -
09o	\$ -	\$ 191,000	\$ 191,000	\$ -	\$ -	\$ -
09p		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
09q	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
09p	\$ -	\$ -	\$ -	\$ -	\$ (3,406,000)	\$ -
09q	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (200,000)
	\$ -	\$ -	\$ 26,351,000	\$ 1,250,000	\$ (9,034,000)	\$ (446,000)
(4 recommendations=\$1,868,000)				\$ -	\$ -	\$ -
10a	\$ -	\$ 135,000	\$ 135,000	\$ -	\$ -	\$ -
10b	\$ -	\$ 1,400,000	\$ 1,400,000	\$ -	\$ -	\$ -
10c	\$ -	\$ 3,000	\$ 3,000			
				\$ -	\$ -	\$ -
10d	\$ 330,000	\$ -	\$ 330,000	\$ 330,000	\$ -	\$ 330,000
\$ 330,000		\$ 1,538,000	\$ 1,868,000	\$ 330,000	\$ -	\$ 330,000
				\$ -	\$ -	\$ -
(1 recommendations=\$500,000)						
11a	\$ -	\$ -	\$ -	\$ (1,500,000)	\$ -	\$ (10,476,000)
11b	\$ -	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -
				\$ (1,500,000)	\$ -	\$ (10,476,000)
\$ -		\$ 500,000	\$ 500,000			
\$ 2,940,000		\$ 61,387,000	\$ 64,476,000	\$ 10,780,000	\$ -	\$ -

ADDITIONALLY \$5 million for PFA Loans out of the corpus of the fund

\* 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,  
\*\* Reallocates \$149,000 from FY 2016 appropriation