

Subd.	Title	Organization	Total LCCMR \$ Recommended FY2020	Special Session Chpt 4		Difference from LCCMR Rec
				Subd.	FY19	
Subd. 03 Foundational Natural Resource Data and Information						
03a	Minnesota Biological Survey	MN DNR	\$ 1,500,000	03a	\$ 1,500,000	\$ -
03b	Restoring Native Mussels in Streams and Lakes	MN DNR	\$ 500,000	03b	\$ 500,000	\$ -
03c	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	Hawk Ridge Bird Observatory	\$ 250,000	03c	\$ 250,000	\$ -
03d	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	\$ 300,000	03d	\$ 300,000	\$ -
03e	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	\$ 350,000	03e	\$ 350,000	\$ -
03f	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	\$ 400,000	03f	\$ 400,000	\$ -
03g	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	\$ 500,000	03g	\$ 500,000	\$ -
03h	Accelerated Aggregate Resource Mapping	MN DNR	\$ 700,000	03h	\$ 700,000	\$ -
03i	Den Boxes for Fishers and other Nesting Wildlife	U of MN - Duluth NRRRI	\$ 190,000	03i	\$ 190,000	\$ -
03j	Red-headed Woodpeckers as Indicators of Oak Savanna Health	U of MN	\$ 171,000	03j	\$ 171,000	\$ -
03k	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	\$ 124,000	03k	\$ 124,000	\$ -
03l	Mapping Aquatic Habitats for Moose	U of MN	\$ 199,000	03l	\$ 199,000	\$ -
03m	Improving Statewide GIS Data by Restoring the PLS	Minnesota Association of County Surveyors	\$ 135,000	03m	\$ 135,000	\$ -
03n	County Geologic Atlases - Part A, Mapping Geology	U of MN - MN Geological Survey	\$ 2,000,000	03n	\$ 2,000,000	\$ -
03o	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	MN DNR	\$ 2,400,000	03o	\$ 2,400,000	\$ -
03p	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoological Garden	\$ 199,000	03p	\$ 199,000	\$ -
	Forest & Bioeconomy Research	U of MN	\$ -	03q	\$ 2,200,000	\$ 2,200,000
	Minerals & Water Research	U of MN - Duluth NRRRI	\$ -	03r	\$ 883,000	\$ 883,000
	Native Bee Survey	MN DNR	\$ -	03s	\$ 600,000	\$ 600,000

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	Diagnostic Test for Chronic Wasting Disease	U of MN	
Foundational Natural Resource Data and Information Subtotal			\$ 9,918,000
Subd. 04 Water Resources			
04a	Determining the Influence of Insecticides on Algal Blooms	U of MN	\$ 350,000
04b	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	\$ 415,000
04c	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	\$ 200,000
04d	Quantifying Microplastics in Minnesotas Inland Lakes	U of MN - Duluth	\$ 200,000
04e	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	\$ 325,000
04f	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	\$ 345,000
04g	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	\$ 250,000
04h	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	\$ 250,000
04i	Extracting Deicing Salt from Roadside Soils with Plants	U of MN	\$ 360,000
04j	Transformation of Plastic Waste into a Valued Resource	U of MN	\$ 225,000
04k	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation District	\$ 440,000
04l	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag & Energy Ctr	\$ 741,000
04m	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	U of MN	\$ 350,000
04n	Mapping Unprofitable Cropland for Water and Wildlife	Science Museum of Minnesota - St. Croix Research Station	\$ 100,000
04o	Evaluating Locally-Sourced Materials for Road Salt Reduction	U of MN - Duluth NRRI	\$ 162,000
04p	Minnesota Spring Inventory Final Phase	MN DNR	\$ 71,000

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	FY19	FY20	
03t	\$ 1,804,000	\$ -	\$ 1,804,000
	\$1,804,000	\$ 13,601,000	\$ 5,487,000
04a		\$ 350,000	\$ -
04b		\$ 415,000	\$ -
04c		\$ 200,000	\$ -
04d		\$ 200,000	\$ -
04e		\$ 325,000	\$ -
04f		\$ 345,000	\$ -
04g		\$ 250,000	\$ -
04h		\$ 250,000	\$ -
04i		\$ 360,000	\$ -
04j		\$ 225,000	\$ -
04k		\$ 440,000	\$ -
04l		\$ 741,000	\$ -
04m		\$ 350,000	\$ -
04n		\$ 100,000	\$ -
04o		\$ 162,000	\$ -
04p		\$ 71,000	\$ -

Subd.	Title	Organization	Total LCCMR \$ Recommended FY2020
04q	Restoring Impaired Lakes through Citizen-Aided Carp Management	Carver County Water Management Organization	\$ 106,000
04r	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	\$ 175,000
04s	Degrading Chlorinated Industrial Contaminants with Bacteria	U of MN	\$ 1,000
	Managed Aquifer Recharge	U of MN	\$ -
Water Resources Subtotal =			\$ 5,066,000
Subd. 05 Technical Assistance, Outreach, and Environmental Education			
05a	Expanding Camp Sunrise Environmental Program	YouthCARE MN	\$ 237,000
05b	Connecting Students to the Boundary Waters	Friends of the Boundary Waters Wilderness	\$ 450,000
05c	Mississippi National River and Recreation Area Forest Restoration	Mississippi Park Connection	\$ 199,000
	Diversity in Environmental Careers	MN DNR	\$ -
Technical Assistance, Outreach, and Environmental Education Subtotal =			\$ 886,000
Subd. 06 Aquatic and Terrestrial Invasive Species			
06a	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC	\$ 3,000,000
06b	Oak Wilt Suppression at its Northern Edge	Morrison Soil and Water Conservation District	\$ 100,000
	Noxious Weed Detection and Eradication	Department of Agriculture	\$ -
	EAB Grants to Cities	MN DNR	\$ -
Aquatic and Terrestrial Invasive Species Subtotal =			\$ 3,100,000

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	FY19	FY20	
04q		\$ 106,000	\$ -
04r		\$ 175,000	\$ -
04s		\$ 1,000	\$ -
04t		\$ 350,000	\$ 350,000
		\$ 5,416,000	\$ 350,000
Subd. 05 Technical Assistance, Outreach, and Environmental Education			
05a		\$ 237,000	\$ -
05b		\$ 450,000	\$ -
05c		\$ 199,000	\$ -
05d		\$ 250,000	\$ 250,000
		\$ 1,136,000	\$ 250,000
Subd. 06 Aquatic and Terrestrial Invasive Species			
06a		\$ 4,000,000	\$ 1,000,000
06b		\$ 100,000	\$ -
06c		\$ 1,000,000	\$ 1,000,000
06d		\$ 300,000	\$ 300,000
		\$ 5,400,000	\$ 2,300,000

Subd.	Title	Organization	Total LCCMR \$ Recommended FY2020	Special Session Chpt 4		Difference from LCCMR Rec	
				Subd.	FY19		FY20
Subd. 07 Air Quality and Renewable Energy							
07a	Development of Clean Energy Storage Systems for Farms	U of MN - WCROC	\$ 650,000	07a		\$ 650,000	\$ -
07b	White Earth Nation Community Solar for Economic Resilience	Rural Renewable Energy Alliance	\$ 500,000	07b		\$ 500,000	\$ -
07c	Sustainable Solar Energy from Agricultural Plant Byproducts	U of MN - Morris	\$ 185,000	07c		\$ 185,000	\$ -
07d	Morris Energy and Environment Community Resilience Plan	City of Morris	\$ 150,000	07d		\$ 150,000	\$ -
Air Quality and Renewable Energy Subtotal =			\$1,485,000		\$ 1,485,000		\$ -
Subd. 08 Methods to Protect or Restore Land, Water, and Habitat							
08a	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoological Garden	\$ 800,000	08a		\$ 800,000	\$ -
08b	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	\$ 750,000	08b		\$ 750,000	\$ -
08c	Sauk River Dam Removal and Rock Rapids Replacement	City of Melrose	\$ 2,768,000	08c		\$ 2,768,000	\$ -
08d	Conservation and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	\$ 135,000	08d		\$ 135,000	\$ -
	Nongame Wildlife Program	MN DNR	\$ -	08e		\$ 513,000	\$ 513,000
	Lawns to Legumes	BWSR	\$ -	08f	\$ 806,000	\$ 94,000	\$ 900,000
	Agricultural Weed Control Using Autonomous Mowers	U of MN	\$ -	08g		\$ 900,000	\$ 900,000
Methods to Protect or Restore Land, Water, and Habitat Subtotal =			\$4,453,000		\$806,000	\$ 5,960,000	\$ 2,313,000
Subd. 09 Land Acquisition, Habitat, and Recreation							
09a	Minnesota Scientific and Natural Areas	MN DNR	\$ 3,500,000	09a		\$ 3,500,000	\$ -
09b	Grants for Local Parks, Trails and Natural Areas	MN DNR	\$ 3,000,000	09b		\$ 3,000,000	\$ -
09c	Minnesota State Parks and State Trails In-Holdings	MN DNR	\$ 2,000,000	09c		\$ 2,000,000	\$ -
09d	Minnesota State Trails Development	MN DNR	\$ 5,000,000	09d		\$ 5,000,000	\$ -

Subd.	Title	Organization	Total LCCMR \$ Recommended FY2020
09e	National Loon Center	National Loon Center Foundation	\$ 4,000,000
09f	Accessible Fishing Piers	MN DNR	\$ 320,000
09g	Mesabi Trail Extensions	St. Louis & Lake Counties Regional Railroad Authority	\$ 3,000,000
	Birch Lake Recreation Area Campground	City of Babbitt	\$ 350,000
09h	Britton Peak to Lutsen Mountain Bike Trail	Superior Cycling Association	\$ 300,000
09i	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	\$ 1,600,000
09k	Bailey Lake Trail and Fishing Pier	City of Virginia	\$ 550,000
09l	Vergas Long Lake Trail	City of Vergas	\$ 290,000
09m	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	\$ 600,000
09n	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	\$ 400,000
09o	Restoring Five Sections of the Superior Hiking Trail	Superior Hiking Trail Association	\$ 191,000
	Rainy Lake Recreational Access and Boat Wash	MN DNR	\$ -
	Bruce Mine Park & Mesabi Trail Head	MN DNR	\$ -
Land Acquisition, Habitat, and Recreation Subtotal =			\$ 25,101,000
Subd. 10 Administration and Contract Agreement Reimbursement			
10a	Contract Agreement Reimbursement	MN DNR	\$ 135,000
10b	LCCMR Administration	Legislative-Citizen Commission on Minnesota Resources	\$ 1,400,000
10c	LCC Administration	Legislative Coordinating Commission	\$ 3,000
	Grants Management System	Legislative Coordinating Commission	\$ -
Administration and Contract Agreement Reimbursement Subtotal =			\$ 1,538,000

Subd.	Special Session Chpt 4		Difference from LCCMR Rec
	FY19	FY20	
09e		\$ 4,000,000	\$ -
09f		\$ 320,000	\$ -
09g		\$ 3,000,000	\$ -
09h		\$ 350,000	\$ -
09i		\$ 350,000	\$ 50,000
09j		\$ 1,600,000	\$ -
09k		\$ 550,000	\$ -
09l		\$ 290,000	\$ -
09m		\$ 600,000	\$ -
09n		\$ 400,000	\$ -
09o		\$ 191,000	\$ -
09p		\$ 200,000	\$ 200,000
09q		\$ 1,000,000	\$ 1,000,000
		\$ 26,351,000	\$ 1,250,000
Subd. 10 Administration and Contract Agreement Reimbursement			
10a		\$ 135,000	\$ -
10b		\$ 1,400,000	\$ -
10c		\$ 3,000	\$ -
10d	\$ 330,000		\$ 330,000
	\$ 330,000	\$ 1,538,000	\$ 330,000

Subd.	Title	Organization	Total LCCMR \$ Recommended FY2020	Subd.	Special Session Chpt 4		Difference from LCCMR Rec
					FY19	FY20	
Subd. 11 Wastewater Treatment Recommendations							
11a & 12b	Water Infrastructure Funding Program	Public Facilities Authority	\$ 1,500,000	11a	Note (1)	\$ -	
11b	Optimizing Local Mechanical & Pond Wastewater Treatment Plants	Public Facilities Authority	\$ 500,000	11b		\$ 500,000	\$ -
Wastewater Treatment Recommendations Subtotal =			\$ 2,000,000			\$ 500,000	\$ (1,500,000)
Total \$ Recommendations =			\$ 53,547,000		\$ 2,940,000	\$ 61,387,000	\$ 10,780,000
<i>Reserved for Debt Service (plus \$2,940,000 in FY2019)</i>			<i>\$ 7,840,000</i>		<i>\$ -</i>	<i>\$ -</i>	<i>\$ (7,840,000)</i>
Total ENTF FY2019 & FY2020			\$ 61,387,000		\$ 2,940,000	\$ 61,387,000	\$ 2,940,000

(1) Authorizes up to \$5 million from the corpus of the Trust Fund for loans through the Public Facilities Authority's Clean Water Revolving Fund