

HOUSE OF REPRESENTATIVES

NINETY-FIRST SESSION

H. F. No. 4498

03/16/2020

Authored by Hansen, Wagenius, Becker-Finn, Moller, Lee and others

The bill was read for the first time and referred to the Environment and Natural Resources Finance Division

04/28/2020

Adoption of Report: Amended and re-referred to the Committee on Ways and Means

Pursuant to Joint Rule 2.03, re-referred to the Committee on Rules and Legislative Administration

04/30/2020

Adoption of Report: Re-referred to the Committee on Ways and Means

Joint Rule 2.03 has been waived for any subsequent committee action on this bill

05/05/2020

Adoption of Report: Placed on the General Register

Read for the Second Time

1.1

A bill for an act

1.2

relating to natural resources; appropriating money from environment and natural

1.3

resources trust fund; modifying previous appropriations; amending Laws 2017,

1.4

chapter 96, section 2, subdivision 9, as amended; Laws 2018, chapter 214, article

1.5

4, section 2, subdivision 6.

1.6

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:

1.7

Section 1. APPROPRIATIONS.

1.8

The sums shown in the columns marked "Appropriations" are appropriated to the agencies

1.9

and for the purposes specified in this act. The appropriations are from the environment and

1.10

natural resources trust fund, or another named fund, and are available for the fiscal years

1.11

indicated for each purpose. The figures "2020" and "2021" used in this act mean that the

1.12

appropriations listed under them are available for the fiscal year ending June 30, 2020, or

1.13

June 30, 2021, respectively. "The first year" is fiscal year 2020. "The second year" is fiscal

1.14

year 2021. "The biennium" is fiscal years 2020 and 2021.

1.15

1.16

1.17

1.18

1.19

Sec. 2. MINNESOTA RESOURCES

1.20

Subdivision 1. Total

1.21

Appropriation

1.22

The amounts that may be spent for each

1.23

purpose are specified in the following

1.24

subdivisions. Appropriations for fiscal year

1.25

2020 are available until June 30, 2023,

2020

2021

\$

2,768,000

\$

61,387,000

2.1 beginning the day following final enactment.  
2.2 Appropriations in the second year are available  
2.3 for three years beginning July 1, 2020, unless  
2.4 otherwise stated in the appropriation. Any  
2.5 unencumbered balance remaining in the first  
2.6 year does not cancel and is available for the  
2.7 second year or until the end of the  
2.8 appropriation.

2.9 **Subd. 2. Definition**

2.10 "Trust fund" means the Minnesota  
2.11 environment and natural resources trust fund  
2.12 established under the Minnesota Constitution,  
2.13 article XI, section 14.

2.14 **Subd. 3. Foundational**  
2.15 **Natural Resource Data and**  
2.16 **Information**

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8,593,000

2.17 **(a) Geologic Atlases for Water Resource**  
2.18 **Management**

2.19 \$2,000,000 the second year is from the trust  
2.20 fund to the Board of Regents of the University  
2.21 of Minnesota, Minnesota Geological Survey,  
2.22 to continue producing county geologic atlases  
2.23 to inform management of surface water and  
2.24 groundwater resources. This appropriation is  
2.25 to complete Part A, which focuses on the  
2.26 properties and distribution of earth materials  
2.27 to define aquifer boundaries and the  
2.28 connection of aquifers to the land surface and  
2.29 surface water resources.

2.30 **(b) Expanding Minnesota Ecological Monitoring**  
2.31 **Network**

2.32 \$800,000 the second year is from the trust  
2.33 fund to the commissioner of natural resources  
2.34 to improve conservation and management of  
2.35 Minnesota's native forests, wetlands, and  
2.36 grasslands by expanding the partially

3.1 established long-term Ecological Monitoring  
3.2 Network that will provide critical knowledge  
3.3 of how ecosystem dynamics and conditions  
3.4 change through time.

3.5 **(c) County Groundwater Atlas**

3.6 \$1,125,000 the second year is from the trust  
3.7 fund to the commissioner of natural resources  
3.8 to continue producing county geologic atlases  
3.9 to inform management of surface water and  
3.10 groundwater resources for drinking water and  
3.11 other purposes. This appropriation is for Part  
3.12 B, to characterize the potential water yields of  
3.13 aquifers and the aquifers' sensitivity to  
3.14 contamination.

3.15 **(d) Foundational Hydrology Data for Wetland**  
3.16 **Protection and Restoration**

3.17 \$400,000 the second year is from the trust  
3.18 fund to the commissioner of natural resources  
3.19 to improve wetland protection, management,  
3.20 and restoration in Minnesota by completing  
3.21 the partially established long-term Wetland  
3.22 Hydrology Monitoring Network that will  
3.23 provide critical knowledge of wetland  
3.24 hydrology dynamics. This appropriation is  
3.25 available until June 30, 2024, by which time  
3.26 the project must be completed and final  
3.27 products delivered.

3.28 **(e) Voyageurs Wolf Project - Phase II**

3.29 \$575,000 the second year is from the trust  
3.30 fund to the Board of Regents of the University  
3.31 of Minnesota to study summertime wolf  
3.32 predation on deer, moose, and other species  
3.33 in the Voyageurs region to inform  
3.34 management of wildlife. This appropriation  
3.35 is available until June 30, 2024, by which time

- 4.1 the project must be completed and final  
4.2 products delivered.
- 4.3 **(f) Expanding Restoration and Promoting**  
4.4 **Awareness of Native Mussels**
- 4.5 \$489,000 the second year is from the trust  
4.6 fund to the Minnesota Zoological Garden to  
4.7 promote mussel conservation by rearing  
4.8 juvenile mussels for reintroduction,  
4.9 researching methods to improve growth and  
4.10 survival in captivity, and encouraging public  
4.11 action to benefit water quality. This  
4.12 appropriation is available until June 30, 2024,  
4.13 by which time the project must be completed  
4.14 and final products delivered.
- 4.15 **(g) Improving Pollinator Conservation by**  
4.16 **Revealing Habitat Needs**
- 4.17 \$500,000 the second year is from the trust  
4.18 fund to the Board of Regents of the University  
4.19 of Minnesota to use citizen scientists and novel  
4.20 analyses to determine the nesting and  
4.21 overwintering needs of wild bees to allow  
4.22 more specific protection and enhancement of  
4.23 pollinator habitat across the state.
- 4.24 **(h) Bee Minnesota - Protect Our Native**  
4.25 **Bumblebees**
- 4.26 \$650,000 the second year is from the trust  
4.27 fund to the Board of Regents of the University  
4.28 of Minnesota to protect native bee health by  
4.29 investigating the potential to mitigate against  
4.30 pathogens that may be transmissible between  
4.31 honey and wild bees and by promoting best  
4.32 practices to beekeepers and the public. This  
4.33 appropriation is subject to Minnesota Statutes,  
4.34 section 116P.10.

5.1 **(i) Bobcat and Fisher Habitat Use and**  
5.2 **Interactions**

5.3 \$400,000 the second year is from the trust  
5.4 fund to the Board of Regents of the University  
5.5 of Minnesota for the Natural Resources  
5.6 Research Institute in Duluth to identify  
5.7 potential solutions to reverse the fisher  
5.8 population decline through better  
5.9 understanding of habitat, diet, and activity  
5.10 patterns of bobcats and fishers.

5.11 **(j) Healthy Prairies III: Restoring Minnesota**  
5.12 **Prairie Plant Diversity**

5.13 \$500,000 the second year is from the trust  
5.14 fund to the Board of Regents of the University  
5.15 of Minnesota to improve Minnesota prairie  
5.16 resiliency by increasing locally sourced seed  
5.17 availability and diversity, evaluating use of  
5.18 beneficial microbes in prairie restorations, and  
5.19 assessing adaptation and adaptive capacity of  
5.20 prairie plant populations.

5.21 **(k) Freshwater Sponges and AIS: Engaging**  
5.22 **Citizen Scientists**

5.23 \$400,000 the second year is from the trust  
5.24 fund to the Board of Regents of the University  
5.25 of Minnesota, Crookston, to use citizen  
5.26 scientists to study the geographic distribution,  
5.27 taxonomic diversity, and antifouling potential  
5.28 of freshwater sponges against aquatic invasive  
5.29 species.

5.30 **(l) Do Beavers Buffer Against Droughts and**  
5.31 **Floods?**

5.32 \$168,000 the second year is from the trust  
5.33 fund to the commissioner of natural resources  
5.34 for an agreement with Voyageurs National  
5.35 Park to analyze existing data sets to determine

6.1 the role of beaver populations and beaver  
6.2 ponds in buffering the region against droughts  
6.3 and floods.

6.4 **(m) Enhancing Bat Recovery by Optimizing**  
6.5 **Artificial Roost Structures**

6.6 \$190,000 the second year is from the trust  
6.7 fund to the commissioner of natural resources  
6.8 to improve the survival of bats by identifying  
6.9 characteristics of successful artificial bat roost  
6.10 structures and optimizing the structures for  
6.11 bat use and reproduction. This appropriation  
6.12 is available until June 30, 2024, by which time  
6.13 the project must be completed and final  
6.14 products delivered.

6.15 **(n) Tools for Supporting Healthy Ecosystems**  
6.16 **and Pollinators**

6.17 \$198,000 the second year is from the trust  
6.18 fund to the commissioner of natural resources  
6.19 to create a pollination companion guide to the  
6.20 Department of Natural Resources' *Field*  
6.21 *Guides to the Native Plant Communities of*  
6.22 *Minnesota* for conservation practitioners to  
6.23 better integrate plant-pollinator interactions  
6.24 into natural resource planning and decision  
6.25 making.

6.26 **(o) Conserving Black Terns and Forster's Terns**  
6.27 **in Minnesota**

6.28 \$198,000 the second year is from the trust  
6.29 fund to the Board of Regents of the University  
6.30 of Minnesota for the Natural Resources  
6.31 Research Institute in Duluth to assess the  
6.32 distribution and breeding status of black tern  
6.33 and Forster's tern and to make conservation  
6.34 and restoration recommendations to improve

7.1 the suitability of habitat for these two bird  
7.2 species in Minnesota.

7.3 **Subd. 4. Water Resources** 1,548,000 3,457,000

7.4 **(a) Unprecedented Change Threatens**  
7.5 **Minnesota's Pristine Lakes**

7.6 \$849,000 the first year is from the trust fund  
7.7 to the Science Museum of Minnesota to  
7.8 determine how, when, and why lakes in  
7.9 pristine areas of the state without obvious  
7.10 nutrient loading are experiencing algal blooms.

7.11 **(b) Managing Highly Saline Waste from**  
7.12 **Municipal Water Treatment**

7.13 \$250,000 the second year is from the trust  
7.14 fund to the Board of Regents of the University  
7.15 of Minnesota to develop a cost- and  
7.16 energy-efficient method of managing the  
7.17 concentrated saline waste from a municipal  
7.18 water treatment plant to increase the feasibility  
7.19 of using reverse osmosis for centralized water  
7.20 softening and sulfate removal. This  
7.21 appropriation is subject to Minnesota Statutes,  
7.22 section 116P.10.

7.23 **(c) Technology for Energy-Generating On-site**  
7.24 **Industrial Wastewater Treatment**

7.25 \$450,000 the second year is from the trust  
7.26 fund to the Board of Regents of the University  
7.27 of Minnesota to improve water quality and  
7.28 generate cost savings by developing off the  
7.29 shelf technology that treats industrial  
7.30 wastewater on-site and turns pollutants into  
7.31 hydrogen and methane for energy. This  
7.32 appropriation is subject to Minnesota Statutes,  
7.33 section 116P.10.

7.34 **(d) Microplastics: Transporters of Contaminants**  
7.35 **in Minnesota Waters**

8.1 \$425,000 the second year is from the trust  
8.2 fund to the Board of Regents of the University  
8.3 of Minnesota to study how several types of  
8.4 common microplastics transport contaminants  
8.5 of concern in Minnesota waters.

8.6 **(e) Developing Strategies to Manage PFAS in**  
8.7 **Land-Applied Biosolids**

8.8 \$1,404,000 the second year is from the trust  
8.9 fund to the commissioner of the Pollution  
8.10 Control Agency to help municipal wastewater  
8.11 plants, landfills, and compost facilities protect  
8.12 human health and the environment by  
8.13 developing strategies to manage per- and  
8.14 polyfluoroalkyl substances (PFAS) in  
8.15 land-applied biosolids.

8.16 **(f) Quantifying New Urban Precipitation and**  
8.17 **Water Reality**

8.18 \$500,000 the second year is from the trust  
8.19 fund to the Board of Regents of the University  
8.20 of Minnesota to better guide storm water  
8.21 management by evaluating the groundwater  
8.22 and surface water interactions contributing to  
8.23 high water tables and damage to home  
8.24 basements and underground infrastructure in  
8.25 urban areas.

8.26 **(g) Innovative Solution for Protecting Minnesota**  
8.27 **from PFAS Contamination**

8.28 \$250,000 the second year is from the trust  
8.29 fund to the commissioner of natural resources  
8.30 for an agreement with Dem-Con Companies  
8.31 to demonstrate a new technology for  
8.32 protecting the state's drinking water and  
8.33 natural resources by eliminating per- and  
8.34 polyfluoroalkyl substances (PFAS) from point  
8.35 source discharges. This appropriation is



9.1 subject to Minnesota Statutes, section 116P.10,  
 9.2 related to royalties, copyrights, patents, and  
 9.3 sale of products and assets.

9.4 **(h) Expanding Protection of Minnesota Water**  
 9.5 **through Industrial Conservation**

9.6 \$178,000 the second year is from the trust  
 9.7 fund to the Board of Regents of the University  
 9.8 of Minnesota for the Minnesota technical  
 9.9 assistance program in partnership with the  
 9.10 Minnesota Rural Water Association to provide  
 9.11 technical assistance to businesses to decrease  
 9.12 industrial and commercial water use in  
 9.13 communities at risk for inadequate  
 9.14 groundwater supply or quality.

9.15 **(i) Evaluating Coronavirus and Other**  
 9.16 **Microbiological Contamination of Drinking**  
 9.17 **Water Sources from Wastewater**

9.18 \$699,000 the first year is from the trust fund  
 9.19 to the Board of Regents of the University of  
 9.20 Minnesota to evaluate the ability of the virus  
 9.21 that causes COVID-19 and other potentially  
 9.22 infectious organisms to travel through  
 9.23 wastewater systems, including septic systems,  
 9.24 to drinking water sources.

9.25 **Subd. 5. Technical**  
 9.26 **Assistance, Outreach, and**  
 9.27 **Environmental Education**

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2,989,000

9.28 **(a) Statewide Environmental Education via**  
 9.29 **Public Television Outdoor Series**

9.30 \$300,000 the second year is from the trust  
 9.31 fund to the commissioner of natural resources  
 9.32 for an agreement with Pioneer Public  
 9.33 Television to produce approximately 25 new  
 9.34 episodes of a statewide outdoor public  
 9.35 television series designed to inspire

10.1 Minnesotans to connect with the outdoors and  
10.2 restore and protect the environment.

10.3 **(b) Minnesota Freshwater Quest: Environmental**  
10.4 **Education on State Waterways**

10.5 \$500,000 the second year is from the trust  
10.6 fund to the commissioner of natural resources  
10.7 for an agreement with Wilderness Inquiry for  
10.8 approximately 10,000 underserved Minnesota  
10.9 youth to explore and improve local waterways  
10.10 using the place-based and hands-on  
10.11 "Minnesota Freshwater Quest" environmental  
10.12 education program.

10.13 **(c) Teach Science: Schools as STEM Living**  
10.14 **Laboratories**

10.15 \$368,000 the second year is from the trust  
10.16 fund to the commissioner of natural resources  
10.17 for an agreement with Climate Generation: A  
10.18 Will Steger Legacy to prepare students for the  
10.19 challenges and careers of the future by  
10.20 connecting new science standards, renewable  
10.21 energy, and STEM opportunities in teacher  
10.22 trainings, classroom demonstrations, and  
10.23 program support across the state.

10.24 **(d) Mentoring Next Generation of Conservation**  
10.25 **Professionals**

10.26 \$500,000 the second year is from the trust  
10.27 fund to the commissioner of natural resources  
10.28 for an agreement with Minnesota Valley  
10.29 National Wildlife Refuge Trust, Inc., to  
10.30 provide paid internships and apprenticeships  
10.31 for diverse young people to learn about careers  
10.32 in the conservation field from United States  
10.33 Fish and Wildlife Service professionals while  
10.34 working at the Minnesota Valley National

- 11.1 Wildlife Refuge and Wetland Management
- 11.2 District.
- 11.3 **(e) Jay C. Hormel Nature Center Supplemental**
- 11.4 **Teaching Staff**
- 11.5 \$225,000 the second year is from the trust
- 11.6 fund to the commissioner of natural resources
- 11.7 for an agreement with the city of Austin to
- 11.8 expand the Jay C. Hormel Nature Center
- 11.9 environmental education program beyond the
- 11.10 city of Austin to students in southeastern
- 11.11 Minnesota for three years.
- 11.12 **(f) 375 Underserved Youth Learn Minnesota**
- 11.13 **Ecosystems by Canoe**
- 11.14 \$375,000 the second year is from the trust
- 11.15 fund to the commissioner of natural resources
- 11.16 for an agreement with the YMCA of the
- 11.17 Greater Twin Cities to connect approximately
- 11.18 375 underserved and diverse teens from urban
- 11.19 areas and first-ring suburbs to environmental
- 11.20 sciences in the natural world through canoeing
- 11.21 and learning expeditions with experienced
- 11.22 outdoor education counselors. This
- 11.23 appropriation is available until June 30, 2024,
- 11.24 by which time the project must be completed
- 11.25 and final products delivered.
- 11.26 **(g) YES! Students Take on Water Quality**
- 11.27 **Challenge - Phase II**
- 11.28 \$199,000 the second year is from the trust
- 11.29 fund to the commissioner of natural resources
- 11.30 for an agreement with Prairie Woods
- 11.31 Environmental Learning Center to mobilize
- 11.32 local watershed stewardship efforts in
- 11.33 approximately 20 communities through
- 11.34 student-driven action projects.

12.1 **(h) Engaging Minnesotans with Phenology:**  
12.2 **Radio, Podcasts, Citizen Science**

12.3 \$198,000 the second year is from the trust  
12.4 fund to the commissioner of natural resources  
12.5 for an agreement with Northern Community  
12.6 Radio, Inc., in partnership with the Board of  
12.7 Regents of the University of Minnesota to  
12.8 build the next generation of conservationists  
12.9 using phenology, radio broadcasts, podcasts,  
12.10 and an online, interactive map interface to  
12.11 inspire teachers, students, and the public to  
12.12 get outside and experience nature.

12.13 **(i) Driving Conservation Behavior for Native**  
12.14 **Mussels and Water Quality**

12.15 \$191,000 the second year is from the trust  
12.16 fund to the Minnesota Zoological Garden to  
12.17 develop research-supported strategies to  
12.18 engage the public in specific conservation  
12.19 behaviors to improve water quality and native  
12.20 mussel health across the state.

12.21 **(j) Workshops and Outreach to Protect Raptors**  
12.22 **from Lead Poisoning**

12.23 \$133,000 the second year is from the trust  
12.24 fund to the Board of Regents of the University  
12.25 of Minnesota, Raptor Center, in cooperation  
12.26 with the Department of Natural Resources and  
12.27 other conservation partners, to provide hunters  
12.28 with outreach and workshops on alternatives  
12.29 to lead hunting ammunition, including copper  
12.30 ammunition as an alternative, and to promote  
12.31 voluntary selection of nontoxic ammunition  
12.32 to protect raptors and other wildlife in  
12.33 Minnesota from accidental lead poisoning  
12.34 caused by ingestion of ammunition fragments.

13.1	<b>Subd. 6. Aquatic and</b>		
13.2	<b><u>Terrestrial Invasive Species</u></b>	<u>320,000</u>	<u>11,520,000</u>
13.3	<b><u>(a) Minnesota Invasive Terrestrial Plants and</u></b>		
13.4	<b><u>Pests Center (MITPPC) - Phase V</u></b>		
13.5	<u>\$5,658,000 the second year is from the trust</u>		
13.6	<u>fund to the Board of Regents of the University</u>		
13.7	<u>of Minnesota to support the Minnesota</u>		
13.8	<u>Invasive Terrestrial Plants and Pests Center</u>		
13.9	<u>to fund approximately 15 new, high-priority</u>		
13.10	<u>research projects that will lead to better</u>		
13.11	<u>management of invasive plants, pathogens,</u>		
13.12	<u>and pests on Minnesota's natural and</u>		
13.13	<u>agricultural lands. This appropriation is subject</u>		
13.14	<u>to Minnesota Statutes, section 116P.10. This</u>		
13.15	<u>appropriation is available until June 30, 2025,</u>		
13.16	<u>by which time the project must be completed</u>		
13.17	<u>and final products delivered.</u>		
13.18	<b><u>(b) Protect Community Forests by Managing</u></b>		
13.19	<b><u>Ash for Emerald Ash Borer</u></b>		
13.20	<u>\$320,000 the first year and \$3,937,000 the</u>		
13.21	<u>second year are from the trust fund to the</u>		
13.22	<u>commissioner of natural resources to reduce</u>		
13.23	<u>emerald ash borer by providing surveys,</u>		
13.24	<u>assessments, trainings, assistance, and grants</u>		
13.25	<u>for communities to manage emerald ash borer,</u>		
13.26	<u>plant a diversity of trees, and engage citizens</u>		
13.27	<u>in community forestry activities. This</u>		
13.28	<u>appropriation is available until June 30, 2024,</u>		
13.29	<u>by which time the project must be completed</u>		
13.30	<u>and final products delivered.</u>		
13.31	<b><u>(c) Biological Control of White-Nose Syndrome</u></b>		
13.32	<b><u>in Bats - Phase III</u></b>		
13.33	<u>\$440,000 the second year is from the trust</u>		
13.34	<u>fund to the Board of Regents of the University</u>		
13.35	<u>of Minnesota to continue assessing and</u>		

14.1 developing a biocontrol agent for white-nose  
14.2 syndrome in bats.

14.3 **(d) Applying New Tools and Techniques Against**  
14.4 **Invasive Carp**

14.5 \$478,000 the second year is from the trust  
14.6 fund to the commissioner of natural resources  
14.7 to apply new monitoring, outreach, and  
14.8 removal techniques and to continue work with  
14.9 commercial anglers to protect Minnesota  
14.10 waters from invasive carp.

14.11 **(e) Emerald Ash Borer and Black Ash:**  
14.12 **Maintaining Forests and Benefits**

14.13 \$700,000 the second year is from the trust  
14.14 fund to the Board of Regents of the University  
14.15 of Minnesota to use ongoing experiments to  
14.16 determine statewide long-term emerald ash  
14.17 borer impacts on water, vegetation, and  
14.18 wildlife; to determine optimal replacement  
14.19 species and practices for forest diversification;  
14.20 and to develop criteria for prioritizing  
14.21 mitigation activities. This appropriation is  
14.22 available until June 30, 2025, by which time  
14.23 the project must be completed and final  
14.24 products delivered.

14.25 **(f) Testing Effectiveness of Aquatic Invasive**  
14.26 **Species Removal Methods**

14.27 \$110,000 the second year is from the trust  
14.28 fund to the Board of Regents of the University  
14.29 of Minnesota for the Natural Resources  
14.30 Research Institute in Duluth to test how well  
14.31 boat-cleaning methods work, to provide the  
14.32 Department of Natural Resources with a risk  
14.33 assessment, and to provide recommendations  
14.34 for improving boat-launch cleaning stations

15.1 to prevent the spread of aquatic invasive  
 15.2 species.

15.3 **(g) Invasive *Didymosphenia* Threatens North**  
 15.4 **Shore Streams**

15.5 \$197,000 the second year is from the trust  
 15.6 fund to the Science Museum of Minnesota to  
 15.7 evaluate the recent spread, origin, cause, and  
 15.8 economic and ecological threat of didymo  
 15.9 formation in North Shore streams and Lake  
 15.10 Superior to inform management and outreach.

15.11 **Subd. 7. Air Quality and Renewable Energy** -0- 573,000

15.12 **(a) Storing Renewable Energy in Flow Battery**  
 15.13 **for Grid Use**

15.14 \$250,000 the second year is from the trust  
 15.15 fund to the Board of Regents of the University  
 15.16 of Minnesota, on behalf of the Morris campus,  
 15.17 to analyze the potential of adding a flow  
 15.18 battery and solar energy generation to the  
 15.19 University of Minnesota Morris's existing  
 15.20 renewable-energy-intensive microgrid.

15.21 **(b) Eco-Friendly Plastics from Cloquet Pulp-Mill**  
 15.22 **Lignin**

15.23 \$193,000 the second year is from the trust  
 15.24 fund to the Board of Regents of the University  
 15.25 of Minnesota to reduce environmental  
 15.26 pollution from plastics by creating eco-friendly  
 15.27 replacements using lignin from the pulp mill  
 15.28 in Cloquet, Minnesota. This appropriation is  
 15.29 subject to Minnesota Statutes, section 116P.10.

15.30 **(c) Diverting Unsold Food from Landfills and**  
 15.31 **Reducing Greenhouse Gases**

15.32 \$130,000 the second year is from the trust  
 15.33 fund to the commissioner of natural resources  
 15.34 for an agreement with Second Harvest  
 15.35 Heartland to prevent food from going to

16.1 landfills and reduce greenhouse gas emissions  
 16.2 by helping businesses donate unsold prepared  
 16.3 food to food shelves.

16.4 **Subd. 8. Methods to Protect or Restore Land,**  
 16.5 **Water, and Habitat**

900,000

4,219,000

16.6 **(a) Pollinator Central: Habitat Improvement**  
 16.7 **with Citizen Monitoring**

16.8 \$750,000 the second year is from the trust  
 16.9 fund to the commissioner of natural resources  
 16.10 for an agreement with Great River Greening  
 16.11 to restore and enhance approximately 400  
 16.12 acres of pollinator habitat on traditional and  
 16.13 nontraditional sites such as roadsides and turf  
 16.14 grass from Hastings to St. Cloud to benefit  
 16.15 pollinators and build knowledge by engaging  
 16.16 approximately 100 citizens in monitoring the  
 16.17 impact of habitat improvements. This  
 16.18 appropriation is available until June 30, 2024,  
 16.19 by which time the project must be completed  
 16.20 and final products delivered.

16.21 **(b) Pollinator and Beneficial Insect Strategic**  
 16.22 **Habitat Program**

16.23 \$750,000 the second year is from the trust  
 16.24 fund to the Board of Water and Soil Resources  
 16.25 for building a new initiative to strategically  
 16.26 restore and enhance approximately 1,000 acres  
 16.27 of diverse native habitat to benefit multiple  
 16.28 insects through grants, cost-share, and  
 16.29 outreach. Notwithstanding subdivision 14,  
 16.30 paragraph (e), restorations and enhancements  
 16.31 may take place on land enrolled in  
 16.32 Conservation Reserve Program and Reinvest  
 16.33 in Minnesota easement programs. This  
 16.34 appropriation is available until June 30, 2024,  
 16.35 by which time the project must be completed  
 16.36 and final products delivered.



17.1 **(c) Lignin-Coated Fertilizers for Phosphate**  
17.2 **Control**

17.3 \$250,000 the second year is from the trust  
17.4 fund to the Board of Regents of the University  
17.5 of Minnesota for the Natural Resources  
17.6 Research Institute in Duluth to test a new,  
17.7 natural, slow-release fertilizer coating made  
17.8 from processed wood to decrease phosphorus  
17.9 runoff from farmland while also storing carbon  
17.10 in soils. This appropriation is subject to  
17.11 Minnesota Statutes, section 116P.10.

17.12 **(d) Implementing Hemp Crop Rotation to**  
17.13 **Improve Water Quality**

17.14 \$700,000 the second year is from the trust  
17.15 fund to the Minnesota State Colleges and  
17.16 Universities System for Central Lakes College  
17.17 to evaluate how hemp crops reduce nitrogen  
17.18 contamination of surface water and  
17.19 groundwater in conventional crop rotations  
17.20 and demonstrate the environmental and  
17.21 economic benefits of hemp production. This  
17.22 appropriation is available until June 30, 2024,  
17.23 by which time the project must be completed  
17.24 and final products delivered.

17.25 **(e) Developing Cover-Crop Systems for Sugar**  
17.26 **Beet Production**

17.27 \$300,000 the second year is from the trust  
17.28 fund to the Board of Regents of the University  
17.29 of Minnesota to develop agronomic guidelines  
17.30 to support growers adopting cover-crop  
17.31 practices in sugar beet production in  
17.32 west-central and northwest Minnesota.

17.33 **(f) Native Eastern Larch Beetle Decimating**  
17.34 **Minnesota's Tamarack Forests**

18.1 \$398,000 the second year is from the trust  
18.2 fund to the Board of Regents of the University  
18.3 of Minnesota to understand conditions  
18.4 triggering eastern larch beetle outbreaks and  
18.5 develop management techniques to protect  
18.6 tamarack forests from this native insect. This  
18.7 appropriation is available until June 30, 2024,  
18.8 by which time the project must be completed  
18.9 and final products delivered.

18.10 **(g) Habitat Associations of Mississippi**  
18.11 **Bottomland Forest Marsh Birds**

18.12 \$275,000 the second year is from the trust  
18.13 fund to the commissioner of natural resources  
18.14 for an agreement with the National Audubon  
18.15 Society, Minnesota office, to evaluate habitat  
18.16 associations of bottomland forest birds in  
18.17 response to restoration actions to better target  
18.18 restoration efforts for wildlife. This  
18.19 appropriation is available until June 30, 2024,  
18.20 by which time the project must be completed  
18.21 and final products delivered.

18.22 **(h) Peatland Restoration in the Lost River State**  
18.23 **Forest**

18.24 \$135,000 the second year is from the trust  
18.25 fund to the commissioner of natural resources  
18.26 for an agreement with the Roseau River  
18.27 Watershed District to collect physical attribute  
18.28 data from drained peatlands, incorporate the  
18.29 data into a decision matrix, and generate a  
18.30 report detailing peatland restoration potential  
18.31 throughout the Lost River State Forest.

18.32 **(i) Prescribed Burning for Brushland-Dependent**  
18.33 **Species - Phase II**

18.34 \$147,000 the second year is from the trust  
18.35 fund to the Board of Regents of the University

19.1 of Minnesota to compare the effects of spring,  
19.2 summer, and fall burns on birds and vegetation  
19.3 and to provide guidelines for maintaining  
19.4 healthy brushland habitat for a diversity of  
19.5 wildlife and plant species.

19.6 **(j) Pollinator Habitat Creation Along Urban**  
19.7 **Mississippi River**

19.8 \$129,000 the second year is from the trust  
19.9 fund to the commissioner of natural resources  
19.10 for an agreement with Friends of the  
19.11 Mississippi River to remove invasive plants  
19.12 and replace them with high-value native  
19.13 species at three urban sites along the  
19.14 Mississippi River to improve habitat for  
19.15 pollinators and other wildlife. This  
19.16 appropriation is available until June 30, 2025,  
19.17 by which time the project must be completed  
19.18 and final products delivered.

19.19 **(k) Increase Golden Shiner Production to Protect**  
19.20 **Aquatic Communities**

19.21 \$188,000 the second year is from the trust  
19.22 fund to the Board of Regents of the University  
19.23 of Minnesota for the Minnesota Sea Grant in  
19.24 Duluth to identify and demonstrate best  
19.25 methods for in-state production of golden  
19.26 shiners to address angler demand while  
19.27 reducing the risk of introducing and spreading  
19.28 invasive species and to communicate findings  
19.29 through reports, manuals, and workshops.  
19.30 Production of shiners in this project must not  
19.31 take place in wetlands.

19.32 **(l) Restoring Turf to Native Pollinator Gardens**  
19.33 **Across Metro**

19.34 \$197,000 the second year is from the trust  
19.35 fund to the commissioner of natural resources

20.1 for an agreement with Wilderness in the City  
20.2 to transition turf to native gardens for  
20.3 pollinator habitat, establish long-term  
20.4 volunteer stewardship networks, and help  
20.5 connect diverse populations with nature  
20.6 throughout the metropolitan regional park  
20.7 system. A letter of commitment from the  
20.8 respective regional park implementing agency  
20.9 must be provided before money from this  
20.10 appropriation is spent at a regional park within  
20.11 the agency's jurisdiction.

20.12 **(m) Lawns to Legumes**

20.13 \$900,000 the first year is from the trust fund  
20.14 to the Board of Water and Soil Resources for  
20.15 demonstration projects that provide grants or  
20.16 payments to plant residential lawns with native  
20.17 vegetation and pollinator-friendly forbs and  
20.18 legumes to protect a diversity of pollinators.  
20.19 The board must establish criteria for grants or  
20.20 payments awarded under this paragraph.  
20.21 Grants or payments awarded under this  
20.22 paragraph may be made for up to 75 percent  
20.23 of the costs of the project, except that in areas  
20.24 identified by the United States Fish and  
20.25 Wildlife Service as areas where there is a high  
20.26 potential for rusty patched bumble bees to be  
20.27 present, grants may be awarded for up to 90  
20.28 percent of the costs of the project.

20.29 **Subd. 9. Land Acquisition,**  
20.30 **Habitat, and Recreation**

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29,901,000

20.31 **(a) DNR Scientific and Natural Areas**

20.32 \$3,000,000 the second year is from the trust  
20.33 fund to the commissioner of natural resources  
20.34 for the scientific and natural area (SNA)  
20.35 program to restore, improve, and enhance

21.1 wildlife habitat on SNAs; increase public  
21.2 involvement and outreach; and strategically  
21.3 acquire high-quality lands that meet criteria  
21.4 for SNAs under Minnesota Statutes, section  
21.5 86A.05, from willing sellers.

21.6 **(b) Private Native Prairie Conservation through**  
21.7 **Native Prairie Bank**

21.8 \$2,000,000 the second year is from the trust  
21.9 fund to the commissioner of natural resources  
21.10 to provide technical stewardship assistance to  
21.11 private landowners, restore and enhance native  
21.12 prairie protected by easements in the native  
21.13 prairie bank, and acquire easements for the  
21.14 native prairie bank in accordance with  
21.15 Minnesota Statutes, section 84.96, including  
21.16 preparing initial baseline property assessments.  
21.17 Up to \$60,000 of this appropriation may be  
21.18 deposited in the natural resources conservation  
21.19 easement stewardship account, created in  
21.20 Minnesota Statutes, section 84.69, proportional  
21.21 to the number of easement acres acquired.

21.22 **(c) Minnesota State Parks and State Trails**  
21.23 **Inholdings**

21.24 \$3,500,000 the second year is from the trust  
21.25 fund to the commissioner of natural resources  
21.26 to acquire high-priority inholdings from  
21.27 willing sellers within the legislatively  
21.28 authorized boundaries of state parks,  
21.29 recreation areas, and trails to protect  
21.30 Minnesota's natural heritage, enhance outdoor  
21.31 recreation, and promote tourism.

21.32 **(d) Grants for Local Parks, Trails, and Natural**  
21.33 **Areas**

21.34 \$2,400,000 the second year is from the trust  
21.35 fund to the commissioner of natural resources

22.1 to solicit, rank, and fund competitive matching  
22.2 grants for local parks, trail connections, and  
22.3 natural and scenic areas under Minnesota  
22.4 Statutes, section 85.019. This appropriation is  
22.5 for local nature-based recreation, connections  
22.6 to regional and state natural areas, and  
22.7 recreation facilities and may not be used for  
22.8 athletic facilities such as sport fields, courts,  
22.9 and playgrounds.

22.10 **(e) Mississippi River Aquatic Habitat**  
22.11 **Restoration and Mussel Reintroduction**

22.12 \$1,800,000 the second year is from the trust  
22.13 fund. Of this amount, \$1,549,000 is to the  
22.14 commissioner of natural resources for an  
22.15 agreement with the Minneapolis Park and  
22.16 Recreation Board and \$251,000 is to the  
22.17 commissioner of natural resources to restore  
22.18 lost habitat and reintroduce mussels in the  
22.19 Mississippi River above St. Anthony Falls.  
22.20 This work includes creating habitat and  
22.21 species restoration plans, implementing the  
22.22 restoration plans, and monitoring effectiveness  
22.23 of the restoration for multiple years after  
22.24 implementation. This appropriation is  
22.25 available until June 30, 2026, by which time  
22.26 the project must be completed and final  
22.27 products delivered.

22.28 **(f) Minnesota Hunter Walking Trails: Public**  
22.29 **Land Recreational Access**

22.30 \$300,000 the second year is from the trust  
22.31 fund to the commissioner of natural resources  
22.32 for an agreement with the Ruffed Grouse  
22.33 Society to improve Minnesota's hunter  
22.34 walking trail system by restoring or upgrading  
22.35 trailheads and trails, developing new walking

- 23.1 trails, and compiling enhanced maps for use  
23.2 by managers and the public.
- 23.3 **(g) Turning Back to Rivers: Environmental and**  
23.4 **Recreational Protection**
- 23.5 \$1,000,000 the second year is from the trust  
23.6 fund to the commissioner of natural resources  
23.7 for an agreement with The Trust for Public  
23.8 Land to help local communities acquire  
23.9 priority land along the Mississippi, St. Croix,  
23.10 and Minnesota Rivers and their tributaries to  
23.11 protect natural resources, provide buffers for  
23.12 flooding, and improve access for recreation.
- 23.13 **(h) Metropolitan Regional Parks System Land**  
23.14 **Acquisition - Phase VI**
- 23.15 \$1,000,000 the first year is from the trust fund  
23.16 to the Metropolitan Council for grants to  
23.17 acquire land within the approved park  
23.18 boundaries of the metropolitan regional park  
23.19 system. This appropriation must be matched  
23.20 by at least 40 percent of nonstate money.
- 23.21 **(i) Minnesota State Trails Development**
- 23.22 \$994,000 the second year is from the trust  
23.23 fund to the commissioner of natural resources  
23.24 to expand high-priority recreational  
23.25 opportunities on Minnesota's state trails by  
23.26 rehabilitating, improving, and enhancing  
23.27 existing state trails. The high-priority trail  
23.28 bridges to be rehabilitated or replaced under  
23.29 this appropriation include, but are not limited  
23.30 to, those on the Taconite, Great River Ridge,  
23.31 and C. J. Ramstad/Northshore State Trails.
- 23.32 **(j) Elm Creek Restoration - Phase IV**
- 23.33 \$500,000 the second year is from the trust  
23.34 fund to the commissioner of natural resources

24.1 for an agreement with the city of Champlin to  
24.2 conduct habitat and stream restoration of  
24.3 approximately 0.7 miles of Elm Creek  
24.4 shoreline above Mill Pond Lake and through  
24.5 the Elm Creek Protection Area.

24.6 **(k) Superior Hiking Trail as Environmental**  
24.7 **Showcase**

24.8 \$450,000 the second year is from the trust  
24.9 fund to the commissioner of natural resources  
24.10 for an agreement with the Superior Hiking  
24.11 Trail Association to rebuild damaged and  
24.12 dangerous segments and create a new trail  
24.13 segment of the Superior Hiking Trail to  
24.14 minimize environmental impacts, make the  
24.15 trail safer for users, and make the trail more  
24.16 resilient for future use and conditions.

24.17 **(l) Upper St. Anthony Falls Enhancements**

24.18 \$2,800,000 the second year is from the trust  
24.19 fund to the commissioner of natural resources  
24.20 for an agreement with the Friends of the Lock  
24.21 and Dam in partnership with the city of  
24.22 Minneapolis to design and install green  
24.23 infrastructure, public access, and habitat  
24.24 restorations on riverfront land at Upper St.  
24.25 Anthony Falls for water protection, recreation,  
24.26 and environmental education purposes. Of this  
24.27 amount, up to \$600,000 is for planning,  
24.28 design, and engagement. No funds from this  
24.29 appropriation may be spent until Congress  
24.30 directs the U.S. Army Corps of Engineers to  
24.31 convey an interest in the Upper St. Anthony  
24.32 Falls property to the city of Minneapolis for  
24.33 use as a visitor center. After this congressional  
24.34 act is signed into law, up to \$100,000 of the  
24.35 planning, design, and engagement funds may



25.1 be spent. The remaining planning, design, and  
25.2 engagement funds may be spent after a binding  
25.3 agreement has been secured to acquire the land  
25.4 or access and use rights to the land for at least  
25.5 25 years. Any remaining balance of the  
25.6 appropriation may be spent on installing  
25.7 enhancements after the Upper St. Anthony  
25.8 Falls land has been acquired by the city of  
25.9 Minneapolis.

25.10 **(m) Whiskey Creek and Mississippi River Water**  
25.11 **Quality, Habitat, and Recreation**

25.12 \$500,000 the second year is from the trust  
25.13 fund to the commissioner of natural resources  
25.14 for an agreement with the Mississippi  
25.15 Headwaters Board to acquire and transfer  
25.16 approximately 13 acres of land to the city of  
25.17 Baxter for future construction of water quality,  
25.18 habitat, and recreational improvements to  
25.19 protect the Mississippi River.

25.20 **(n) Perham to Pelican Rapids Regional Trail**  
25.21 **(West Segment)**

25.22 \$2,600,000 the second year is from the trust  
25.23 fund to the commissioner of natural resources  
25.24 for an agreement with Otter Tail County to  
25.25 construct the west segment of the 32-mile  
25.26 Perham to Pelican Rapids Regional Trail that  
25.27 will connect the city of Pelican Rapids to  
25.28 Maplewood State Park.

25.29 **(o) Crow Wing County Community Natural**  
25.30 **Area Acquisition**

25.31 \$400,000 the second year is from the trust  
25.32 fund to the commissioner of natural resources  
25.33 for an agreement with Crow Wing County to  
25.34 acquire approximately 65 acres of land  
25.35 adjacent to the historic fire tower property to

26.1 allow for diverse recreational opportunities  
26.2 while protecting wildlife habitat and  
26.3 preventing forest fragmentation. Any revenue  
26.4 generated from selling products or assets  
26.5 developed or acquired with this appropriation  
26.6 must be repaid to the trust fund unless a plan  
26.7 is approved for reinvestment of income in the  
26.8 project as provided under Minnesota Statutes,  
26.9 section 116P.10.

26.10 **(p) Rocori Trail - Phase III**

26.11 \$1,200,000 the second year is from the trust  
26.12 fund to the commissioner of natural resources  
26.13 for an agreement with the Rocori Trail  
26.14 Construction Board to design and construct  
26.15 Phase III of the Rocori Trail along the old  
26.16 Burlington Northern Santa Fe rail corridor  
26.17 between the cities of Cold Spring and  
26.18 Rockville.

26.19 **(q) Mesabi Trail: New Trail and Additional**  
26.20 **Funding**

26.21 \$1,000,000 the second year is from the trust  
26.22 fund to the commissioner of natural resources  
26.23 for an agreement with the St. Louis and Lake  
26.24 Counties Regional Railroad Authority for  
26.25 constructing the Mesabi Trail beginning at the  
26.26 intersection of County Road 20 and Minnesota  
26.27 State Highway 135 and terminating at 1st  
26.28 Avenue North and 1st Street North in the city  
26.29 of Biwabik in St. Louis County. This  
26.30 appropriation may not be spent until all  
26.31 Mesabi Trail projects funded with trust fund  
26.32 appropriations before fiscal year 2020, with  
26.33 the exception of the project funded under Laws  
26.34 2017, chapter 96, section 2, subdivision 9,  
26.35 paragraph (g), are completed.

27.1 **(r) Ranier Safe Harbor and Transient Dock on**  
27.2 **Rainy Lake**

27.3 \$762,000 the second year is from the trust  
27.4 fund to the commissioner of natural resources  
27.5 for an agreement with the city of Ranier to  
27.6 construct a dock that accommodates boats 26  
27.7 feet or longer with the goal of increasing  
27.8 public access for boat recreation on Rainy  
27.9 Lake. Any revenue generated from selling  
27.10 products or assets developed or acquired with  
27.11 this appropriation must be repaid to the trust  
27.12 fund unless a plan is approved for  
27.13 reinvestment of income in the project as  
27.14 provided under Minnesota Statutes, section  
27.15 116P.10.

27.16 **(s) Crane Lake Voyageurs National Park**  
27.17 **Campground and Visitor Center**

27.18 \$3,100,000 the second year is from the trust  
27.19 fund to the commissioner of natural resources  
27.20 for an agreement with the town of Crane Lake  
27.21 to design and construct a new campground  
27.22 and to plan and preliminarily prepare a site  
27.23 for constructing a new Voyageurs National  
27.24 Park visitor center on land acquired for these  
27.25 purposes in Crane Lake. Any revenue  
27.26 generated from selling products or assets  
27.27 developed or acquired with this appropriation  
27.28 must be repaid to the trust fund unless a plan  
27.29 is approved for reinvestment of income in the  
27.30 project as provided under Minnesota Statutes,  
27.31 section 116P.10.

27.32 **(t) Chippewa County Acquisition, Recreation,**  
27.33 **and Education**

27.34 \$160,000 the second year is from the trust  
27.35 fund to the commissioner of natural resources  
27.36 for an agreement with Chippewa County to

28.1 acquire wetland and floodplain forest and  
28.2 abandoned gravel pits along the Minnesota  
28.3 River to provide water filtration, education,  
28.4 and recreational opportunities.

28.5 **(u) Sportsmen's Training and Developmental**  
28.6 **Learning Center**

28.7 \$85,000 the second year is from the trust fund  
28.8 to the commissioner of natural resources for  
28.9 an agreement with the Minnesota Forest Zone  
28.10 Trappers Association to complete a site  
28.11 evaluation and master plan for the Sportsmen's  
28.12 Training and Developmental Learning Center  
28.13 near Hibbing. Any revenue generated from  
28.14 selling products or assets developed or  
28.15 acquired with this appropriation must be  
28.16 repaid to the trust fund unless a plan is  
28.17 approved for reinvestment of income in the  
28.18 project as provided under Minnesota Statutes,  
28.19 section 116P.10.

28.20 **(v) Birch Lake Recreation Area**

28.21 \$350,000 the second year is from the trust  
28.22 fund to the commissioner of natural resources  
28.23 for a grant to the city of Babbitt to expand the  
28.24 Birch Lake Recreation Area by adding a new  
28.25 campground to include new campsites,  
28.26 restrooms, and other facilities. This  
28.27 appropriation is available until June 30, 2024.

28.28 **Subd. 10. Contract**  
28.29 **Agreement Reimbursement**

28.30 \$135,000 the second year is from the trust  
28.31 fund to the commissioner of natural resources,  
28.32 at the direction of the Legislative-Citizen  
28.33 Commission on Minnesota Resources, for  
28.34 expenses incurred for preparing and  
28.35 administering contracts for the agreements

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29.1 specified in this section. The commissioner  
29.2 must provide documentation to the  
29.3 Legislative-Citizen Commission on Minnesota  
29.4 Resources on the expenditure of these funds.

29.5 **Subd. 11. Availability of Appropriations**

29.6 Money appropriated in this section may not  
29.7 be spent on activities unless they are directly  
29.8 related to and necessary for a specific  
29.9 appropriation and are specified in the work  
29.10 plan approved by the Legislative-Citizen  
29.11 Commission on Minnesota Resources. Money  
29.12 appropriated in this section must not be spent  
29.13 on indirect costs or other institutional overhead  
29.14 charges that are not directly related to and  
29.15 necessary for a specific appropriation. Costs  
29.16 that are directly related to and necessary for  
29.17 an appropriation, including financial services,  
29.18 human resources, information services, rent,  
29.19 and utilities, are eligible only if the costs can  
29.20 be clearly justified and individually  
29.21 documented specific to the appropriation's  
29.22 purpose and would not be generated by the  
29.23 recipient but for receipt of the appropriation.  
29.24 No broad allocations for costs in either dollars  
29.25 or percentages are allowed. Unless otherwise  
29.26 provided, the amounts in this section are  
29.27 available until June 30, 2023, when projects  
29.28 must be completed and final products  
29.29 delivered. For acquisition of real property, the  
29.30 appropriations in this section are available for  
29.31 an additional fiscal year if a binding contract  
29.32 for acquisition of the real property is entered  
29.33 into before the expiration date of the  
29.34 appropriation. If a project receives a federal

30.1 grant, the time period of the appropriation is  
30.2 extended to equal the federal grant period.

30.3 **Subd. 12. Data Availability Requirements**

30.4 Data collected by the projects funded under  
30.5 this section must conform to guidelines and  
30.6 standards adopted by MN.IT Services. Spatial  
30.7 data must also conform to additional  
30.8 guidelines and standards designed to support  
30.9 data coordination and distribution that have  
30.10 been published by the Minnesota Geospatial  
30.11 Information Office. Descriptions of spatial  
30.12 data must be prepared as specified in the state's  
30.13 geographic metadata guideline and must be  
30.14 submitted to the Minnesota Geospatial  
30.15 Information Office. All data must be  
30.16 accessible and free to the public unless made  
30.17 private under the Data Practices Act,  
30.18 Minnesota Statutes, chapter 13. To the extent  
30.19 practicable, summary data and results of  
30.20 projects funded under this section should be  
30.21 readily accessible on the Internet and  
30.22 identified as having received funding from the  
30.23 environment and natural resources trust fund.

30.24 **Subd. 13. Project Requirements**

30.25 (a) As a condition of accepting an  
30.26 appropriation under this section, an agency or  
30.27 entity receiving an appropriation or a party to  
30.28 an agreement from an appropriation must  
30.29 comply with paragraphs (b) to (l) and  
30.30 Minnesota Statutes, chapter 116P, and must  
30.31 submit a work plan and annual or semiannual  
30.32 progress reports in the form determined by the  
30.33 Legislative-Citizen Commission on Minnesota  
30.34 Resources for any project funded in whole or  
30.35 in part with funds from the appropriation.

31.1 Modifications to the approved work plan and  
31.2 budget expenditures must be made through  
31.3 the amendment process established by the  
31.4 Legislative-Citizen Commission on Minnesota  
31.5 Resources.

31.6 (b) A recipient of money appropriated in this  
31.7 section that conducts a restoration using funds  
31.8 appropriated in this section must use native  
31.9 plant species according to the Board of Water  
31.10 and Soil Resources' native vegetation  
31.11 establishment and enhancement guidelines  
31.12 and include an appropriate diversity of native  
31.13 species selected to provide habitat for  
31.14 pollinators throughout the growing season as  
31.15 required under Minnesota Statutes, section  
31.16 84.973.

31.17 (c) For all restorations conducted with money  
31.18 appropriated under this section, a recipient  
31.19 must prepare an ecological restoration and  
31.20 management plan that, to the degree  
31.21 practicable, is consistent with the  
31.22 highest-quality conservation and ecological  
31.23 goals for the restoration site. Consideration  
31.24 should be given to soil, geology, topography,  
31.25 and other relevant factors that would provide  
31.26 the best chance for long-term success and  
31.27 durability of the restoration project. The plan  
31.28 must include the proposed timetable for  
31.29 implementing the restoration, including site  
31.30 preparation, establishment of diverse plant  
31.31 species, maintenance, and additional  
31.32 enhancement to establish the restoration;  
31.33 identify long-term maintenance and  
31.34 management needs of the restoration and how  
31.35 the maintenance, management, and

- 32.1 enhancement will be financed; and take  
32.2 advantage of the best-available science and  
32.3 include innovative techniques to achieve the  
32.4 best restoration.
- 32.5 (d) An entity receiving an appropriation in this  
32.6 section for restoration activities must provide  
32.7 an initial restoration evaluation at the  
32.8 completion of the appropriation and an  
32.9 evaluation three years after the completion of  
32.10 the expenditure. Restorations must be  
32.11 evaluated relative to the stated goals and  
32.12 standards in the restoration plan, current  
32.13 science, and, when applicable, the Board of  
32.14 Water and Soil Resources' native vegetation  
32.15 establishment and enhancement guidelines.  
32.16 The evaluation must determine whether the  
32.17 restorations are meeting planned goals,  
32.18 identify any problems with implementing the  
32.19 restorations, and, if necessary, give  
32.20 recommendations on improving restorations.  
32.21 The evaluation must be focused on improving  
32.22 future restorations.
- 32.23 (e) All restoration and enhancement projects  
32.24 funded with money appropriated in this section  
32.25 must be on land permanently protected by a  
32.26 conservation easement or public ownership.
- 32.27 (f) A recipient of money from an appropriation  
32.28 under this section must give consideration to  
32.29 contracting with Conservation Corps  
32.30 Minnesota for contract restoration and  
32.31 enhancement services.
- 32.32 (g) All conservation easements acquired with  
32.33 money appropriated under this section must:
- 32.34 (1) be permanent;



- 33.1 (2) specify the parties to an easement in the  
33.2 easement;
- 33.3 (3) specify all of the provisions of an  
33.4 agreement that are permanent;
- 33.5 (4) be sent to the Legislative-Citizen  
33.6 Commission on Minnesota Resources in an  
33.7 electronic format at least ten business days  
33.8 before closing;
- 33.9 (5) include a long-term monitoring and  
33.10 enforcement plan and funding for monitoring  
33.11 and enforcing the easement agreement; and
- 33.12 (6) include requirements in the easement  
33.13 document to protect the quantity and quality  
33.14 of groundwater and surface water through  
33.15 specific activities such as keeping water on  
33.16 the landscape, reducing nutrient and  
33.17 contaminant loading, and not permitting  
33.18 artificial hydrological modifications.
- 33.19 (h) For any acquisition of lands or interest in  
33.20 lands, a recipient of money appropriated under  
33.21 this section must not agree to pay more than  
33.22 100 percent of the appraised value for a parcel  
33.23 of land using this money to complete the  
33.24 purchase, in part or in whole, except that up  
33.25 to ten percent above the appraised value may  
33.26 be allowed to complete the purchase, in part  
33.27 or in whole, using this money if permission is  
33.28 received in advance of the purchase from the  
33.29 Legislative-Citizen Commission on Minnesota  
33.30 Resources.
- 33.31 (i) For any acquisition of land or interest in  
33.32 land, a recipient of money appropriated under  
33.33 this section must give priority to high-quality

34.1 natural resources or conservation lands that  
34.2 provide natural buffers to water resources.

34.3 (j) For new lands acquired with money  
34.4 appropriated under this section, a recipient  
34.5 must prepare an ecological restoration and  
34.6 management plan in compliance with  
34.7 paragraph (c), including sufficient funding for  
34.8 implementation unless the work plan addresses  
34.9 why a portion of the money is not necessary  
34.10 to achieve a high-quality restoration.

34.11 (k) To ensure public accountability for using  
34.12 public funds, a recipient of money  
34.13 appropriated under this section must, within  
34.14 60 days of the transaction, provide to the  
34.15 Legislative-Citizen Commission on Minnesota  
34.16 Resources documentation of the selection  
34.17 process used to identify parcels acquired and  
34.18 provide documentation of all related  
34.19 transaction costs, including but not limited to  
34.20 appraisals, legal fees, recording fees,  
34.21 commissions, other similar costs, and  
34.22 donations. This information must be provided  
34.23 for all parties involved in the transaction. The  
34.24 recipient must also report to the  
34.25 Legislative-Citizen Commission on Minnesota  
34.26 Resources any difference between the  
34.27 acquisition amount paid to the seller and the  
34.28 state-certified or state-reviewed appraisal, if  
34.29 a state-certified or state-reviewed appraisal  
34.30 was conducted.

34.31 (l) A recipient of an appropriation from the  
34.32 trust fund under this section must acknowledge  
34.33 financial support from the environment and  
34.34 natural resources trust fund in project  
34.35 publications, signage, and other public

35.1 communications and outreach related to work  
35.2 completed using the appropriation.  
35.3 Acknowledgment may occur, as appropriate,  
35.4 through use of the trust fund logo or inclusion  
35.5 of language attributing support from the trust  
35.6 fund. Each direct recipient of money  
35.7 appropriated in this section, as well as each  
35.8 recipient of a grant awarded pursuant to this  
35.9 section, must satisfy all reporting and other  
35.10 requirements incumbent upon constitutionally  
35.11 dedicated funding recipients as provided in  
35.12 Minnesota Statutes, section 3.303, subdivision  
35.13 10, and chapter 116P.

35.14 **Subd. 14. Payment Conditions and**  
35.15 **Capital-Equipment Expenditures**

35.16 (a) All agreements, grants, or contracts  
35.17 referred to in this section must be administered  
35.18 on a reimbursement basis unless otherwise  
35.19 provided in this section. Notwithstanding  
35.20 Minnesota Statutes, section 16A.41,  
35.21 expenditures made on or after July 1, 2020,  
35.22 or the date the work plan is approved,  
35.23 whichever is later, are eligible for  
35.24 reimbursement unless otherwise provided in  
35.25 this section. Periodic payments must be made  
35.26 upon receiving documentation that the  
35.27 deliverable items articulated in the approved  
35.28 work plan have been achieved, including  
35.29 partial achievements as evidenced by approved  
35.30 progress reports. Reasonable amounts may be  
35.31 advanced to projects to accommodate  
35.32 cash-flow needs or match federal money. The  
35.33 advances must be approved as part of the work  
35.34 plan. No expenditures for capital equipment  
35.35 are allowed unless expressly authorized in the  
35.36 project work plan.

36.1 (b) Single-source contracts as specified in the  
36.2 approved work plan are allowed.

36.3 **Subd. 15. Purchasing Recycled and Recyclable**  
36.4 **Materials**

36.5 A political subdivision, public or private  
36.6 corporation, or other entity that receives an  
36.7 appropriation under this section must use the  
36.8 appropriation in compliance with Minnesota  
36.9 Statutes, section 16C.0725, regarding  
36.10 purchasing recycled, repairable, and durable  
36.11 materials and Minnesota Statutes, section  
36.12 16C.073, regarding purchasing and using  
36.13 paper stock and printing.

36.14 **Subd. 16. Energy Conservation and Sustainable**  
36.15 **Building Guidelines**

36.16 A recipient to whom an appropriation is made  
36.17 under this section for a capital improvement  
36.18 project must ensure that the project complies  
36.19 with the applicable energy conservation and  
36.20 sustainable building guidelines and standards  
36.21 contained in law, including Minnesota  
36.22 Statutes, sections 16B.325, 216C.19, and  
36.23 216C.20, and rules adopted under those  
36.24 sections. The recipient may use the energy  
36.25 planning, advocacy, and State Energy Office  
36.26 units of the Department of Commerce to  
36.27 obtain information and technical assistance  
36.28 on energy conservation and alternative-energy  
36.29 development relating to planning and  
36.30 constructing the capital improvement project.

36.31 **Subd. 17. Accessibility**

36.32 Structural and nonstructural facilities must  
36.33 meet the design standards in the Americans  
36.34 with Disabilities Act (ADA) accessibility  
36.35 guidelines.

37.1 **Subd. 18. Carryforward; Extension**

37.2 (a) The availability of the appropriations for  
37.3 the following projects is extended to June 30,  
37.4 2021:

37.5 (1) Laws 2017, chapter 96, section 2,  
37.6 subdivision 7, paragraph (e), Geotargeted  
37.7 Distributed Clean Energy Initiative;

37.8 (2) Laws 2017, chapter 96, section 2,  
37.9 subdivision 8, paragraph (a), Optimizing the  
37.10 Nutrition of Roadside Plants for Pollinators;

37.11 (3) Laws 2017, chapter 96, section 2,  
37.12 subdivision 8, paragraph (f), Prescribed-Fire  
37.13 Management for Roadside Prairies;

37.14 (4) Laws 2017, chapter 96, section 2,  
37.15 subdivision 8, paragraph (h), Mississippi and  
37.16 Vermillion Rivers Restoration of Prairie,  
37.17 Savanna, and Forest Habitat - Phase X;

37.18 (5) Laws 2017, chapter 96, section 2,  
37.19 subdivision 9, paragraph (e), Native Prairie  
37.20 Stewardship and Prairie Bank Easement  
37.21 Acquisition, as amended by Laws 2019, First  
37.22 Special Session chapter 4, article 2, section 4;

37.23 (6) Laws 2018, chapter 214, article 4, section  
37.24 2, subdivision 5, paragraph (j), Expanding the  
37.25 State's Reuse Economy to Conserve Natural  
37.26 Resources; and

37.27 (7) Laws 2018, chapter 214, article 4, section  
37.28 2, subdivision 6, paragraph (b), Palmer  
37.29 Amaranth Detection and Eradication  
37.30 Continuation.

37.31 (b) The availability of the appropriations for  
37.32 the following projects is extended to June 30,  
37.33 2022:

- 38.1 (1) Laws 2017, chapter 96, section 2,  
38.2 subdivision 8, paragraph (k), Conservation  
38.3 Reserve Enhancement Program (CREP)  
38.4 Outreach and Implementation; and
- 38.5 (2) Laws 2017, chapter 96, section 2,  
38.6 subdivision 9, paragraph (h), Tower Trailhead  
38.7 Boat Landing and Habitat Improvement -  
38.8 Phase II.
- 38.9 (c) The availability of the appropriations for  
38.10 the following projects is extended to June 30,  
38.11 2023:
- 38.12 (1) Laws 2018, chapter 214, article 4, section  
38.13 2, subdivision 10, Emerging Issues Account;  
38.14 and
- 38.15 (2) Laws 2019, First Special Session chapter  
38.16 4, article 2, section 2, subdivision 8, paragraph  
38.17 (f), Lawns to Legumes.
- 38.18 (d) The availability of the appropriation under  
38.19 Laws 2018, chapter 214, article 4, section 2,  
38.20 subdivision 4, paragraph (l), Lake Agnes  
38.21 Treatment, is extended to June 30, 2024.
- 38.22 **Subd. 19. Cancellation**
- 38.23 The appropriation in Laws 2019, First Special  
38.24 Session chapter 4, article 2, section 2,  
38.25 subdivision 8, paragraph (c), Sauk River Dam  
38.26 Removal and Rock Rapids Replacement, is  
38.27 canceled.
- 38.28 **Subd. 20. Extension of Availability For Certain**  
38.29 **Appropriations**
- 38.30 (a) The availability of any appropriation or  
38.31 grant of money from the environment and  
38.32 natural resources trust fund that would  
38.33 otherwise cancel, lapse, or expire on June 30,

39.1 2020, is extended to June 30, 2021, if the  
 39.2 recipient or grantee does both of the following:  
 39.3 (1) by June 30, 2020, notifies the  
 39.4 Legislative-Citizen Commission on Minnesota  
 39.5 Resources in the manner specified by the  
 39.6 commission that the recipient or grantee  
 39.7 intends to avail itself of the extension available  
 39.8 under this subdivision; and  
 39.9 (2) modifies the applicable work plan where  
 39.10 required by Minnesota Statutes, section  
 39.11 116P.05, subdivision 2, in accordance with  
 39.12 the work plan amendment procedures adopted  
 39.13 under that section.  
 39.14 (b) The commission must notify the  
 39.15 commissioner of management and budget and  
 39.16 the commissioner of natural resources of any  
 39.17 extension granted under this subdivision.

39.18 Sec. 3. Laws 2017, chapter 96, section 2, subdivision 9, as amended by Laws 2019, First  
 39.19 Special Session chapter 4, article 2, section 4, is amended to read:

39.20	Subd. 9. <b>Land Acquisition,</b>			
39.21	<b>Habitat, and Recreation</b>	999,000	13,533,000	-0-

39.22 **(a) Metropolitan Regional Parks System Land**  
 39.23 **Acquisition**

39.24 \$1,500,000 the first year is from the trust fund  
 39.25 to the Metropolitan Council for grants to  
 39.26 acquire approximately 70 acres of land within  
 39.27 the approved park boundaries of the  
 39.28 metropolitan regional park system. This  
 39.29 appropriation may not be used to purchase  
 39.30 habitable residential structures. A list of  
 39.31 proposed fee title acquisitions must be  
 39.32 provided as part of the required work plan.  
 39.33 This appropriation must be matched by at least  
 39.34 40 percent of nonstate money that must be

40.1 committed by December 31, 2017. This  
40.2 appropriation is available until June 30, 2020,  
40.3 by which time the project must be completed  
40.4 and final products delivered.

40.5 **(b) Scientific and Natural Areas Acquisition and**  
40.6 **Restoration, Citizen Science, and Engagement**

40.7 \$2,500,000 the first year is from the trust fund  
40.8 to the commissioner of natural resources to  
40.9 acquire land with high-quality native plant  
40.10 communities and rare features to be  
40.11 established as scientific and natural areas as  
40.12 provided in Minnesota Statutes, section  
40.13 86A.05, subdivision 5, restore and improve  
40.14 scientific and natural areas, and provide  
40.15 technical assistance and outreach, including  
40.16 site steward events. At least one-third of the  
40.17 appropriation must be spent on restoration  
40.18 activities. A list of proposed acquisitions and  
40.19 restorations must be provided as part of the  
40.20 required work plan. Land acquired with this  
40.21 appropriation must be sufficiently improved  
40.22 to meet at least minimum management  
40.23 standards, as determined by the commissioner  
40.24 of natural resources. When feasible,  
40.25 consideration must be given to accommodate  
40.26 trails on lands acquired. This appropriation is  
40.27 available until June 30, 2020, by which time  
40.28 the project must be completed and final  
40.29 products delivered.

40.30 **(c) Minnesota State Parks and State Trails Land**  
40.31 **Acquisition**

40.32 \$1,500,000 the first year is from the trust fund  
40.33 to the commissioner of natural resources to  
40.34 acquire approximately 373 acres from willing  
40.35 sellers for authorized state trails and critical  
40.36 parcels within the statutory boundaries of state



41.1 parks. State park land acquired with this  
41.2 appropriation must be sufficiently improved  
41.3 to meet at least minimum management  
41.4 standards, as determined by the commissioner  
41.5 of natural resources. A list of proposed  
41.6 acquisitions must be provided as part of the  
41.7 required work plan. This appropriation is  
41.8 available until June 30, 2020, by which time  
41.9 the project must be completed and final  
41.10 products delivered.

41.11 **(d) Minnesota State Trails Acquisition,**  
41.12 **Development, and Enhancement**

41.13 \$999,000 in fiscal year 2017 and \$39,000 the  
41.14 first year are from the trust fund to the  
41.15 commissioner of natural resources for state  
41.16 trail acquisition, development, and  
41.17 enhancement in southern Minnesota. A  
41.18 proposed list of trail projects on authorized  
41.19 state trails must be provided as part of the  
41.20 required work plan. This appropriation is  
41.21 available until June 30, 2020, by which time  
41.22 the project must be completed and final  
41.23 products delivered.

41.24 **(e) Native Prairie Stewardship and Prairie Bank**  
41.25 **Easement Acquisition**

41.26 \$2,675,000 the first year is from the trust fund  
41.27 to the commissioner of natural resources to  
41.28 acquire native prairie bank easements in  
41.29 accordance with Minnesota Statutes, section  
41.30 84.96, on approximately 250 acres, prepare  
41.31 baseline property assessments, restore and  
41.32 enhance native prairie sites, and provide  
41.33 technical assistance to landowners. Of this  
41.34 amount, up to \$132,000 may be deposited in  
41.35 a conservation easement stewardship account.  
41.36 Deposits into the conservation easement

42.1 stewardship account must be made upon  
42.2 closing on conservation easements or at a time  
42.3 otherwise approved in the work plan. A list of  
42.4 proposed easement acquisitions must be  
42.5 provided as part of the required work plan.  
42.6 This appropriation is available until June 30,  
42.7 2020, by which time the project must be  
42.8 completed and final products delivered.

42.9 **(f) Leech Lake Acquisition**

42.10 \$1,500,000 the first year is from the trust fund  
42.11 to the commissioner of natural resources for  
42.12 an agreement with the Leech Lake Band of  
42.13 Ojibwe to acquire approximately 45 acres,  
42.14 including 0.67 miles of shoreline of  
42.15 high-quality aquatic and wildlife habitat at the  
42.16 historic meeting place between Henry  
42.17 Schoolcraft and the Anishinabe people. The  
42.18 land must be open to public use including  
42.19 hunting and fishing. The band must provide a  
42.20 commitment that land will not be put in a  
42.21 federal trust through the Bureau of Indian  
42.22 Affairs.

42.23 **(g) Mesabi Trail Development**

42.24 \$2,269,000 the first year is from the trust fund  
42.25 to the commissioner of natural resources for  
42.26 an agreement with the St. Louis and Lake  
42.27 Counties Regional Railroad Authority for  
42.28 engineering and constructing segments of the  
42.29 Mesabi Trail. This appropriation is available  
42.30 until June 30, 2020, by which time the project  
42.31 must be completed and final products  
42.32 delivered.

42.33 **(h) Tower Trailhead Boat Landing and Habitat**  
42.34 **Improvement - Phase II**

43.1 \$600,000 the first year is from the trust fund  
43.2 to the commissioner of natural resources for  
43.3 an agreement with the city of Tower to  
43.4 construct a trailhead, trail connection to the  
43.5 Mesabi Trail, and boat landing and to restore  
43.6 vegetative habitat on city-owned property.  
43.7 Plant and seed materials must follow the Board  
43.8 of Water and Soil Resources' native vegetation  
43.9 establishment and enhancement guidelines.  
43.10 This appropriation is available until June 30,  
43.11 2020, by which time the project must be  
43.12 completed and final products delivered.

43.13 **(i) Land Acquisition for Voyageurs National**  
43.14 **Park Crane Lake Visitors Center**

43.15 \$950,000 the first year is from the trust fund  
43.16 to the commissioner of natural resources for  
43.17 an agreement with the town of Crane Lake, in  
43.18 partnership with Voyageurs National Park and  
43.19 the Department of Natural Resources, to  
43.20 acquire approximately 30 acres to be used for  
43.21 a visitor center and campground. Income  
43.22 generated by the campground may be used to  
43.23 support the facility.

43.24 **EFFECTIVE DATE.** This section is effective retroactively from July 1, 2017.

43.25 Sec. 4. Laws 2018, chapter 214, article 4, section 2, subdivision 6, is amended to read:

43.26 **Subd. 6. Aquatic and Terrestrial Invasive**  
43.27 **Species**

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5,760,000

43.28 **(a) Minnesota Invasive Terrestrial Plants and**  
43.29 **Pests Center - Phase 4**

43.30 \$3,500,000 the second year is from the trust  
43.31 fund to the Board of Regents of the University  
43.32 of Minnesota for high-priority research at the  
43.33 Invasive Terrestrial Plants and Pests Center  
43.34 to protect Minnesota's natural and agricultural  
43.35 resources from terrestrial invasive plants,

44.1 pathogens, and pests as identified through the  
44.2 center's strategic prioritization process. This  
44.3 appropriation is available until June 30, 2023,  
44.4 by which time the project must be completed  
44.5 and final products delivered.

44.6 **(b) Palmer Amaranth Detection and Eradication**  
44.7 **Continuation**

44.8 \$431,000 the second year is from the trust  
44.9 fund to the commissioner of agriculture to  
44.10 continue to monitor, ground survey, and  
44.11 control Palmer amaranth and other prohibited  
44.12 eradicate species of noxious weeds primarily  
44.13 ~~in conservation plantings~~ natural areas and to  
44.14 develop and implement aerial-survey methods  
44.15 to prevent infestation and protect prairies,  
44.16 other natural areas, and agricultural crops.

44.17 **(c) Evaluate Control Methods for Invasive**  
44.18 **Hybrid Cattails**

44.19 \$131,000 the second year is from the trust  
44.20 fund to the commissioner of natural resources  
44.21 for an agreement with Voyageurs National  
44.22 Park to evaluate the effectiveness of  
44.23 mechanical harvesting and managing muskrat  
44.24 populations to remove exotic hybrid cattails  
44.25 and restore fish and wildlife habitat in  
44.26 Minnesota wetlands. This appropriation is  
44.27 available until June 30, 2021, by which time  
44.28 the project must be completed and final  
44.29 products delivered.

44.30 **(d) Developing RNA Interference to Control**  
44.31 **Zebra Mussels**

44.32 \$500,000 the second year is from the trust  
44.33 fund to the commissioner of natural resources  
44.34 for an agreement with the United States  
44.35 Geological Survey to develop a genetic control

45.1 tool that exploits the natural process of RNA  
45.2 silencing to specifically target and effectively  
45.3 control zebra mussels without affecting other  
45.4 species or causing other nontarget effects. This  
45.5 appropriation is available until June 30, 2021,  
45.6 by which time the project must be completed  
45.7 and final products delivered.

45.8 **(e) Install and Evaluate an Invasive Carp**  
45.9 **Deterrent for Mississippi River Locks and Dams**

45.10 \$998,000 the second year is from the trust  
45.11 fund to the Board of Regents of the University  
45.12 of Minnesota in cooperation with the United  
45.13 States Army Corps of Engineers and the  
45.14 United States Fish and Wildlife Service to  
45.15 install, evaluate, and optimize a system in  
45.16 Mississippi River locks and dams to deter  
45.17 passage of invasive carp without negatively  
45.18 impacting native fish and to evaluate the  
45.19 ability of predator fish in the pools above the  
45.20 locks and dams to consume young carp. The  
45.21 project must conduct a cost comparison of  
45.22 equipment purchase versus lease options and  
45.23 choose the most effective option. This  
45.24 appropriation is available until June 30, 2021,  
45.25 by which time the project must be completed  
45.26 and final products delivered.

45.27 **(f) Determining Risk of Toxic Alga in Minnesota**  
45.28 **Lakes**

45.29 \$200,000 the second year is from the trust  
45.30 fund to the Science Museum of Minnesota for  
45.31 the St. Croix Watershed Research Station to  
45.32 determine the historical distribution,  
45.33 abundance, and toxicity of the invasive  
45.34 blue-green alga, *Cylindrospermopsis*  
45.35 *raciborskii*, in about 20 lakes across Minnesota  
45.36 and inform managers and the public about the

- 46.1     alga's spread and health risks. This
- 46.2     appropriation is available until June 30, 2021,
- 46.3     by which time the project must be completed
- 46.4     and final products delivered.
- 46.5     Sec. 5. **EFFECTIVE DATE.**
- 46.6     Sections 1, 2, and 4, are effective the day following final enactment.