

**SENATE  
STATE OF MINNESOTA  
NINETY-FIRST SESSION**

**S.F. No. 3525**

(SENATE AUTHORS: INGEBRIGTSEN, Westrom, Dahms, Tomassoni and Dziejcie)

DATE	D-PG	OFFICIAL STATUS
02/24/2020		Introduction and first reading Referred to Environment and Natural Resources Finance

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		<b>APPROPRIATIONS</b>	
1.16		<b>Available for the Year</b>	
1.17		<b>Ending June 30</b>	
1.18		<b><u>2020</u></b>	<b><u>2021</u></b>

1.19 Sec. 2. MINNESOTA RESOURCES

1.20	<u>Subdivision 1. Total</u>			
1.21	<u>Appropriation</u>	<b>\$</b>	<b>-0-</b>	<b>\$ 61,387,000</b>

1.22 The amounts that may be spent for each

1.23 purpose are specified in the following

1.24 subdivisions. Appropriations in the second

1.25 year are available for three years beginning

2.1 July 1, 2020, unless otherwise stated in the  
 2.2 appropriation. Any unencumbered balance  
 2.3 remaining in the first year does not cancel and  
 2.4 is available for the second year or until the  
 2.5 end of the appropriation.

2.6 **Subd. 2. Definition**

2.7 "Trust fund" means the Minnesota  
 2.8 environment and natural resources trust fund  
 2.9 established under the Minnesota Constitution,  
 2.10 article XI, section 14.

2.11 **Subd. 3. Foundational**  
 2.12 **Natural Resource Data and**  
 2.13 **Information**

-0-

8,593,000

2.14 **(a) Geologic Atlases for Water Resource**  
 2.15 **Management**

2.16 \$2,000,000 the second year is from the trust  
 2.17 fund to the Board of Regents of the University  
 2.18 of Minnesota, Minnesota Geological Survey,  
 2.19 to continue producing county geologic atlases  
 2.20 to inform management of surface water and  
 2.21 groundwater resources. This appropriation is  
 2.22 to complete Part A, which focuses on the  
 2.23 properties and distribution of earth materials  
 2.24 to define aquifer boundaries and the  
 2.25 connection of aquifers to the land surface and  
 2.26 surface water resources.

2.27 **(b) Expanding Minnesota Ecological Monitoring**  
 2.28 **Network**

2.29 \$800,000 the second year is from the trust  
 2.30 fund to the commissioner of natural resources  
 2.31 to improve conservation and management of  
 2.32 Minnesota's native forests, wetlands, and  
 2.33 grasslands by expanding the partially  
 2.34 established long-term Ecological Monitoring  
 2.35 Network that will provide critical knowledge

3.1 of how ecosystem dynamics and conditions  
3.2 change through time.

3.3 **(c) County Groundwater Atlas**

3.4 \$1,125,000 the second year is from the trust  
3.5 fund to the commissioner of natural resources  
3.6 to continue producing county geologic atlases  
3.7 to inform management of surface water and  
3.8 groundwater resources for drinking water and  
3.9 other purposes. This appropriation is for Part  
3.10 B, to characterize the potential water yields of  
3.11 aquifers and the aquifers' sensitivity to  
3.12 contamination.

3.13 **(d) Foundational Hydrology Data for Wetland**  
3.14 **Protection and Restoration**

3.15 \$400,000 the second year is from the trust  
3.16 fund to the commissioner of natural resources  
3.17 to improve wetland protection, management,  
3.18 and restoration in Minnesota by completing  
3.19 the partially established long-term Wetland  
3.20 Hydrology Monitoring Network that will  
3.21 provide critical knowledge of wetland  
3.22 hydrology dynamics. This appropriation is  
3.23 available until June 30, 2024, by which time  
3.24 the project must be completed and final  
3.25 products delivered.

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

3.27 \$575,000 the second year is from the trust  
3.28 fund to the Board of Regents of the University  
3.29 of Minnesota to study summertime wolf  
3.30 predation on deer, moose, and other species  
3.31 in the Voyageurs region to inform  
3.32 management of wildlife. This appropriation  
3.33 is available until June 30, 2024, by which time  
3.34 the project must be completed and final  
3.35 products delivered.

4.1 **(f) Expanding Restoration and Promoting**  
4.2 **Awareness of Native Mussels**

4.3 \$489,000 the second year is from the trust  
4.4 fund to the Minnesota Zoological Garden to  
4.5 promote mussel conservation by rearing  
4.6 juvenile mussels for reintroduction,  
4.7 researching methods to improve growth and  
4.8 survival in captivity, and encouraging public  
4.9 action to benefit water quality. This  
4.10 appropriation is available until June 30, 2024,  
4.11 by which time the project must be completed  
4.12 and final products delivered.

4.13 **(g) Improving Pollinator Conservation by**  
4.14 **Revealing Habitat Needs**

4.15 \$500,000 the second year is from the trust  
4.16 fund to the Board of Regents of the University  
4.17 of Minnesota to use citizen scientists and novel  
4.18 analyses to determine the nesting and  
4.19 overwintering needs of wild bees to allow  
4.20 more specific protection and enhancement of  
4.21 pollinator habitat across the state.

4.22 **(h) Bee Minnesota - Protect Our Native**  
4.23 **Bumblebees**

4.24 \$650,000 the second year is from the trust  
4.25 fund to the Board of Regents of the University  
4.26 of Minnesota to protect native bee health by  
4.27 investigating the potential to mitigate against  
4.28 pathogens that may be transmissible between  
4.29 honey and wild bees and by promoting best  
4.30 practices to beekeepers and the public. This  
4.31 appropriation is subject to Minnesota Statutes,  
4.32 section 116P.10.

4.33 **(i) Bobcat and Fisher Habitat Use and**  
4.34 **Interactions**

5.1 \$400,000 the second year is from the trust  
5.2 fund to the Board of Regents of the University  
5.3 of Minnesota for the Natural Resources  
5.4 Research Institute in Duluth to identify  
5.5 potential solutions to reverse the fisher  
5.6 population decline through better  
5.7 understanding of habitat, diet, and activity  
5.8 patterns of bobcats and fishers.

5.9 **(j) Healthy Prairies III: Restoring Minnesota**  
5.10 **Prairie Plant Diversity**

5.11 \$500,000 the second year is from the trust  
5.12 fund to the Board of Regents of the University  
5.13 of Minnesota to improve Minnesota prairie  
5.14 resiliency by increasing locally sourced seed  
5.15 availability and diversity, evaluating use of  
5.16 beneficial microbes in prairie restorations, and  
5.17 assessing adaptation and adaptive capacity of  
5.18 prairie plant populations.

5.19 **(k) Freshwater Sponges and AIS: Engaging**  
5.20 **Citizen Scientists**

5.21 \$400,000 the second year is from the trust  
5.22 fund to the Board of Regents of the University  
5.23 of Minnesota, Crookston, to use citizen  
5.24 scientists to study the geographic distribution,  
5.25 taxonomic diversity, and antifouling potential  
5.26 of freshwater sponges against aquatic invasive  
5.27 species.

5.28 **(l) Do Beavers Buffer Against Droughts and**  
5.29 **Floods?**

5.30 \$168,000 the second year is from the trust  
5.31 fund to the commissioner of natural resources  
5.32 for an agreement with Voyageurs National  
5.33 Park to analyze existing data sets to determine  
5.34 the role of beaver populations and beaver

6.1 ponds in buffering the region against droughts  
6.2 and floods.

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

6.5 \$190,000 the second year is from the trust  
6.6 fund to the commissioner of natural resources  
6.7 to improve the survival of bats by identifying  
6.8 characteristics of successful artificial bat roost  
6.9 structures and optimizing the structures for  
6.10 bat use and reproduction. This appropriation  
6.11 is available until June 30, 2024, by which time  
6.12 the project must be completed and final  
6.13 products delivered.

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

6.16 \$198,000 the second year is from the trust  
6.17 fund to the commissioner of natural resources  
6.18 to create a pollination companion guide to the  
6.19 Department of Natural Resources' *Field*  
6.20 *Guides to the Native Plant Communities of*  
6.21 *Minnesota* for conservation practitioners to  
6.22 better integrate plant-pollinator interactions  
6.23 into natural resource planning and decision  
6.24 making.

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

6.27 \$198,000 the second year is from the trust  
6.28 fund to the Board of Regents of the University  
6.29 of Minnesota for the Natural Resources  
6.30 Research Institute in Duluth to assess the  
6.31 distribution and breeding status of black tern  
6.32 and Forster's tern and to make conservation  
6.33 and restoration recommendations to improve  
6.34 the suitability of habitat for these two bird  
6.35 species in Minnesota.

7.1	<b><u>Subd. 4. Water Resources</u></b>	<b><u>-0-</u></b>	<b><u>3,653,000</u></b>
7.2	<b><u>(a) Unprecedented Change Threatens</u></b>		
7.3	<b><u>Minnesota's Pristine Lakes</u></b>		
7.4	<u>\$600,000 the second year is from the trust</u>		
7.5	<u>fund to the Science Museum of Minnesota to</u>		
7.6	<u>determine how, when, and why lakes in</u>		
7.7	<u>pristine areas of the state without obvious</u>		
7.8	<u>nutrient loading are experiencing algal blooms.</u>		
7.9	<b><u>(b) Managing Highly Saline Waste from</u></b>		
7.10	<b><u>Municipal Water Treatment</u></b>		
7.11	<u>\$250,000 the second year is from the trust</u>		
7.12	<u>fund to the Board of Regents of the University</u>		
7.13	<u>of Minnesota to develop a cost- and</u>		
7.14	<u>energy-efficient method of managing the</u>		
7.15	<u>concentrated saline waste from a municipal</u>		
7.16	<u>water treatment plant to increase the feasibility</u>		
7.17	<u>of using reverse osmosis for centralized water</u>		
7.18	<u>softening and sulfate removal. This</u>		
7.19	<u>appropriation is subject to Minnesota Statutes,</u>		
7.20	<u>section 116P.10.</u>		
7.21	<b><u>(c) Technology for Energy-Generating On-site</u></b>		
7.22	<b><u>Industrial Wastewater Treatment</u></b>		
7.23	<u>\$450,000 the second year is from the trust</u>		
7.24	<u>fund to the Board of Regents of the University</u>		
7.25	<u>of Minnesota to improve water quality and</u>		
7.26	<u>generate cost savings by developing off the</u>		
7.27	<u>shelf technology that treats industrial</u>		
7.28	<u>wastewater on-site and turns pollutants into</u>		
7.29	<u>hydrogen and methane for energy. This</u>		
7.30	<u>appropriation is subject to Minnesota Statutes,</u>		
7.31	<u>section 116P.10.</u>		
7.32	<b><u>(d) Microplastics: Transporters of Contaminants</u></b>		
7.33	<b><u>in Minnesota Waters</u></b>		
7.34	<u>\$425,000 the second year is from the trust</u>		
7.35	<u>fund to the Board of Regents of the University</u>		

8.1 of Minnesota to study how several types of  
8.2 common microplastics transport contaminants  
8.3 of concern in Minnesota waters.

8.4 **(e) Developing Strategies to Manage PFAS in**  
8.5 **Land-Applied Biosolids**

8.6 \$1,000,000 the second year is from the trust  
8.7 fund to the commissioner of the Pollution  
8.8 Control Agency to help municipal wastewater  
8.9 plants, landfills, and compost facilities protect  
8.10 human health and the environment by  
8.11 developing strategies to manage per- and  
8.12 polyfluoroalkyl substances (PFAS) in  
8.13 land-applied biosolids.

8.14 **(f) Quantifying New Urban Precipitation and**  
8.15 **Water Reality**

8.16 \$500,000 the second year is from the trust  
8.17 fund to the Board of Regents of the University  
8.18 of Minnesota to better guide storm water  
8.19 management by evaluating the groundwater  
8.20 and surface water interactions contributing to  
8.21 high water tables and damage to home  
8.22 basements and underground infrastructure in  
8.23 urban areas.

8.24 **(g) Innovative Solution for Protecting Minnesota**  
8.25 **from PFAS Contamination**

8.26 \$250,000 the second year is from the trust  
8.27 fund to the commissioner of natural resources  
8.28 for an agreement with Dem-Con Companies  
8.29 to demonstrate a new technology for  
8.30 protecting the state's drinking water and  
8.31 natural resources by eliminating per- and  
8.32 polyfluoroalkyl substances (PFAS) from point  
8.33 source discharges. This appropriation is  
8.34 subject to Minnesota Statutes, section 116P.10,



9.1 related to royalties, copyrights, patents, and  
9.2 sale of products and assets.

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

9.5 \$178,000 the second year is from the trust  
9.6 fund to the Board of Regents of the University  
9.7 of Minnesota for the Minnesota technical  
9.8 assistance program in partnership with the  
9.9 Minnesota Rural Water Association to provide  
9.10 technical assistance to businesses to decrease  
9.11 industrial and commercial water use in  
9.12 communities at risk for inadequate  
9.13 groundwater supply or quality.

9.14 **Subd. 5. Technical**  
9.15 **Assistance, Outreach, and**  
9.16 **Environmental Education**

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2,738,000

9.17 **(a) Statewide Environmental Education via**  
9.18 **Public Television Outdoor Series**

9.19 \$300,000 the second year is from the trust  
9.20 fund to the commissioner of natural resources  
9.21 for an agreement with Pioneer Public  
9.22 Television to produce approximately 25 new  
9.23 episodes of a statewide outdoor public  
9.24 television series designed to inspire  
9.25 Minnesotans to connect with the outdoors and  
9.26 restore and protect the environment.

9.27 **(b) Minnesota Freshwater Quest: Environmental**  
9.28 **Education on State Waterways**

9.29 \$500,000 the second year is from the trust  
9.30 fund to the commissioner of natural resources  
9.31 for an agreement with Wilderness Inquiry for  
9.32 approximately 10,000 underserved Minnesota  
9.33 youth to explore and improve local waterways  
9.34 using the place-based and hands-on  
9.35 "Minnesota Freshwater Quest" environmental  
9.36 education program.

10.1 **(c) Teach Science: Schools as STEM Living**  
 10.2 **Laboratories**

10.3 \$250,000 the second year is from the trust  
 10.4 fund to the commissioner of natural resources  
 10.5 for an agreement with Climate Generation: A  
 10.6 Will Steger Legacy to prepare students for the  
 10.7 challenges and careers of the future by  
 10.8 connecting new science standards, renewable  
 10.9 energy, and STEM opportunities in teacher  
 10.10 trainings, classroom demonstrations, and  
 10.11 program support across the state.

10.12 **(d) Mentoring Next Generation of Conservation**  
 10.13 **Professionals**

10.14 \$500,000 the second year is from the trust  
 10.15 fund to the commissioner of natural resources  
 10.16 for an agreement with Minnesota Valley  
 10.17 National Wildlife Refuge Trust, Inc., to  
 10.18 provide paid internships and apprenticeships  
 10.19 for diverse young people to learn about careers  
 10.20 in the conservation field from United States  
 10.21 Fish and Wildlife Service professionals while  
 10.22 working at the Minnesota Valley National  
 10.23 Wildlife Refuge and Wetland Management  
 10.24 District.

10.25 **(e) Jay C. Hormel Nature Center Supplemental**  
 10.26 **Teaching Staff**

10.27 \$225,000 the second year is from the trust  
 10.28 fund to the commissioner of natural resources  
 10.29 for an agreement with the city of Austin to  
 10.30 expand the Jay C. Hormel Nature Center  
 10.31 environmental education program beyond the  
 10.32 city of Austin to students in southeastern  
 10.33 Minnesota for three years.

10.34 **(f) 375 Underserved Youth Learn Minnesota**  
 10.35 **Ecosystems by Canoe**

11.1 \$375,000 the second year is from the trust  
 11.2 fund to the commissioner of natural resources  
 11.3 for an agreement with the YMCA of the  
 11.4 Greater Twin Cities to connect approximately  
 11.5 375 underserved and diverse teens from urban  
 11.6 areas and first-ring suburbs to environmental  
 11.7 sciences in the natural world through canoeing  
 11.8 and learning expeditions with experienced  
 11.9 outdoor education counselors. This  
 11.10 appropriation is available until June 30, 2024,  
 11.11 by which time the project must be completed  
 11.12 and final products delivered.

11.13 **(g) YES! Students Take on Water Quality**  
 11.14 **Challenge - Phase II**

11.15 \$199,000 the second year is from the trust  
 11.16 fund to the commissioner of natural resources  
 11.17 for an agreement with Prairie Woods  
 11.18 Environmental Learning Center to mobilize  
 11.19 local watershed stewardship efforts in  
 11.20 approximately 20 communities through  
 11.21 student-driven action projects.

11.22 **(h) Engaging Minnesotans with Phenology:**  
 11.23 **Radio, Podcasts, Citizen Science**

11.24 \$198,000 the second year is from the trust  
 11.25 fund to the commissioner of natural resources  
 11.26 for an agreement with Northern Community  
 11.27 Radio, Inc., in partnership with the Board of  
 11.28 Regents of the University of Minnesota to  
 11.29 build the next generation of conservationists  
 11.30 using phenology, radio broadcasts, podcasts,  
 11.31 and an online, interactive map interface to  
 11.32 inspire teachers, students, and the public to  
 11.33 get outside and experience nature.

11.34 **(i) Driving Conservation Behavior for Native**  
 11.35 **Mussels and Water Quality**

12.1 \$191,000 the second year is from the trust  
 12.2 fund to the Minnesota Zoological Garden to  
 12.3 develop research-supported strategies to  
 12.4 engage the public in specific conservation  
 12.5 behaviors to improve water quality and native  
 12.6 mussel health across the state.

12.7 **Subd. 6. Aquatic and**  
 12.8 **Terrestrial Invasive Species**

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10,425,000

12.9 **(a) Minnesota Invasive Terrestrial Plants and**  
 12.10 **Pests Center (MITPPC) - Phase V**

12.11 \$5,000,000 the second year is from the trust  
 12.12 fund to the Board of Regents of the University  
 12.13 of Minnesota to support the Minnesota  
 12.14 Invasive Terrestrial Plants and Pests Center  
 12.15 to fund approximately 15 new, high-priority  
 12.16 research projects that will lead to better  
 12.17 management of invasive plants, pathogens,  
 12.18 and pests on Minnesota's natural and  
 12.19 agricultural lands. This appropriation is subject  
 12.20 to Minnesota Statutes, section 116P.10. This  
 12.21 appropriation is available until June 30, 2025,  
 12.22 by which time the project must be completed  
 12.23 and final products delivered.

12.24 **(b) Protect Community Forests by Managing**  
 12.25 **Ash for Emerald Ash Borer**

12.26 \$3,500,000 the second year is from the trust  
 12.27 fund to the commissioner of natural resources  
 12.28 to reduce emerald ash borer by providing  
 12.29 surveys, assessments, trainings, assistance,  
 12.30 and grants for communities to manage emerald  
 12.31 ash borer, plant a diversity of trees, and engage  
 12.32 citizens in community forestry activities. This  
 12.33 appropriation is available until June 30, 2024,  
 12.34 by which time the project must be completed  
 12.35 and final products delivered.

13.1 **(c) Biological Control of White-Nose Syndrome**  
 13.2 **in Bats - Phase III**

13.3 \$440,000 the second year is from the trust  
 13.4 fund to the commissioner of natural resources  
 13.5 to continue assessing and developing a  
 13.6 biocontrol agent for white-nose syndrome in  
 13.7 bats.

13.8 **(d) Applying New Tools and Techniques Against**  
 13.9 **Invasive Carp**

13.10 \$478,000 the second year is from the trust  
 13.11 fund to the commissioner of natural resources  
 13.12 to apply new monitoring, outreach, and  
 13.13 removal techniques and to continue work with  
 13.14 commercial anglers to protect Minnesota  
 13.15 waters from invasive carp.

13.16 **(e) Emerald Ash Borer and Black Ash:**  
 13.17 **Maintaining Forests and Benefits**

13.18 \$700,000 the second year is from the trust  
 13.19 fund to the Board of Regents of the University  
 13.20 of Minnesota to use ongoing experiments to  
 13.21 determine statewide long-term emerald ash  
 13.22 borer impacts on water, vegetation, and  
 13.23 wildlife; to determine optimal replacement  
 13.24 species and practices for forest diversification;  
 13.25 and to develop criteria for prioritizing  
 13.26 mitigation activities. This appropriation is  
 13.27 available until June 30, 2025, by which time  
 13.28 the project must be completed and final  
 13.29 products delivered.

13.30 **(f) Testing Effectiveness of Aquatic Invasive**  
 13.31 **Species Removal Methods**

13.32 \$110,000 the second year is from the trust  
 13.33 fund to the Board of Regents of the University  
 13.34 of Minnesota for the Natural Resources  
 13.35 Research Institute in Duluth to test how well

14.1 boat-cleaning methods work, to provide the  
 14.2 Department of Natural Resources with a risk  
 14.3 assessment, and to provide recommendations  
 14.4 for improving boat-launch cleaning stations  
 14.5 to prevent the spread of aquatic invasive  
 14.6 species.

14.7 **(g) Invasive *Didymosphenia* Threatens North**  
 14.8 **Shore Streams**

14.9 \$197,000 the second year is from the trust  
 14.10 fund to the Science Museum of Minnesota to  
 14.11 evaluate the recent spread, origin, cause, and  
 14.12 economic and ecological threat of didymo  
 14.13 formation in North Shore streams and Lake  
 14.14 Superior to inform management and outreach.

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

14.16 **(a) Storing Renewable Energy in Flow Battery**  
 14.17 **for Grid Use**

14.18 \$250,000 the second year is from the trust  
 14.19 fund to the Board of Regents of the University  
 14.20 of Minnesota, on behalf of the Morris campus,  
 14.21 to analyze the potential of adding a flow  
 14.22 battery and solar energy generation to the  
 14.23 University of Minnesota Morris's existing  
 14.24 renewable-energy-intensive microgrid.

14.25 **(b) Eco-Friendly Plastics from Cloquet Pulp-Mill**  
 14.26 **Lignin**

14.27 \$193,000 the second year is from the trust  
 14.28 fund to the Board of Regents of the University  
 14.29 of Minnesota to reduce environmental  
 14.30 pollution from plastics by creating eco-friendly  
 14.31 replacements using lignin from the pulp mill  
 14.32 in Cloquet, Minnesota. This appropriation is  
 14.33 subject to Minnesota Statutes, section 116P.10.

14.34 **(c) Diverting Unsold Food from Landfills and**  
 14.35 **Reducing Greenhouse Gases**

15.1 \$130,000 the second year is from the trust  
 15.2 fund to the commissioner of natural resources  
 15.3 for an agreement with Second Harvest  
 15.4 Heartland to prevent food from going to  
 15.5 landfills and reduce greenhouse gas emissions  
 15.6 by helping businesses donate unsold prepared  
 15.7 food to food shelves.

15.8 **Subd. 8. Methods to Protect or Restore Land,**  
 15.9 **Water, and Habitat**

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4,219,000

15.10 **(a) Pollinator Central: Habitat Improvement**  
 15.11 **with Citizen Monitoring**

15.12 \$750,000 the second year is from the trust  
 15.13 fund to the commissioner of natural resources  
 15.14 for an agreement with Great River Greening  
 15.15 to restore and enhance approximately 400  
 15.16 acres of pollinator habitat on traditional and  
 15.17 nontraditional sites such as roadsides and turf  
 15.18 grass from Hastings to St. Cloud to benefit  
 15.19 pollinators and build knowledge by engaging  
 15.20 approximately 100 citizens in monitoring the  
 15.21 impact of habitat improvements. This  
 15.22 appropriation is available until June 30, 2024,  
 15.23 by which time the project must be completed  
 15.24 and final products delivered.

15.25 **(b) Pollinator and Beneficial Insect Strategic**  
 15.26 **Habitat Program**

15.27 \$750,000 the second year is from the trust  
 15.28 fund to the Board of Water and Soil Resources  
 15.29 for building a new initiative to strategically  
 15.30 restore and enhance approximately 1,000 acres  
 15.31 of diverse native habitat to benefit multiple  
 15.32 insects through grants, cost-share, and  
 15.33 outreach. Notwithstanding subdivision 14,  
 15.34 paragraph (e), restorations and enhancements  
 15.35 may take place on land enrolled in  
 15.36 Conservation Reserve Program and Reinvest

16.1 in Minnesota easement programs. This  
16.2 appropriation is available until June 30, 2024,  
16.3 by which time the project must be completed  
16.4 and final products delivered.

16.5 **(c) Lignin-Coated Fertilizers for Phosphate**  
16.6 **Control**

16.7 \$250,000 the second year is from the trust  
16.8 fund to the Board of Regents of the University  
16.9 of Minnesota for the Natural Resources  
16.10 Research Institute in Duluth to test a new,  
16.11 natural, slow-release fertilizer coating made  
16.12 from processed wood to decrease phosphorus  
16.13 runoff from farmland while also storing carbon  
16.14 in soils. This appropriation is subject to  
16.15 Minnesota Statutes, section 116P.10.

16.16 **(d) Implementing Hemp Crop Rotation to**  
16.17 **Improve Water Quality**

16.18 \$700,000 the second year is from the trust  
16.19 fund to the Minnesota State Colleges and  
16.20 Universities System for Central Lakes College  
16.21 to evaluate how hemp crops reduce nitrogen  
16.22 contamination of surface water and  
16.23 groundwater in conventional crop rotations  
16.24 and demonstrate the environmental and  
16.25 economic benefits of hemp production. This  
16.26 appropriation is available until June 30, 2024,  
16.27 by which time the project must be completed  
16.28 and final products delivered.

16.29 **(e) Developing Cover-Crop Systems for Sugar**  
16.30 **Beet Production**

16.31 \$300,000 the second year is from the trust  
16.32 fund to the Board of Regents of the University  
16.33 of Minnesota to develop agronomic guidelines  
16.34 to support growers adopting cover-crop



17.1 practices in sugar beet production in  
17.2 west-central and northwest Minnesota.

17.3 **(f) Native Eastern Larch Beetle Decimating**  
17.4 **Minnesota's Tamarack Forests**

17.5 \$398,000 the second year is from the trust  
17.6 fund to the Board of Regents of the University  
17.7 of Minnesota to understand conditions  
17.8 triggering eastern larch beetle outbreaks and  
17.9 develop management techniques to protect  
17.10 tamarack forests from this native insect. This  
17.11 appropriation is available until June 30, 2024,  
17.12 by which time the project must be completed  
17.13 and final products delivered.

17.14 **(g) Habitat Associations of Mississippi**  
17.15 **Bottomland Forest Marsh Birds**

17.16 \$275,000 the second year is from the trust  
17.17 fund to the commissioner of natural resources  
17.18 for an agreement with the National Audubon  
17.19 Society, Minnesota office, to evaluate habitat  
17.20 associations of bottomland forest birds in  
17.21 response to restoration actions to better target  
17.22 restoration efforts for wildlife. This  
17.23 appropriation is available until June 30, 2024,  
17.24 by which time the project must be completed  
17.25 and final products delivered.

17.26 **(h) Peatland Restoration in the Lost River State**  
17.27 **Forest**

17.28 \$135,000 the second year is from the trust  
17.29 fund to the commissioner of natural resources  
17.30 for an agreement with the Roseau River  
17.31 Watershed District to collect physical attribute  
17.32 data from drained peatlands, incorporate the  
17.33 data into a decision matrix, and generate a  
17.34 report detailing peatland restoration potential  
17.35 throughout the Lost River State Forest.

18.1 **(i) Prescribed Burning for Brushland-Dependent**  
18.2 **Species - Phase II**

18.3 \$147,000 the second year is from the trust  
18.4 fund to the Board of Regents of the University  
18.5 of Minnesota to compare the effects of spring,  
18.6 summer, and fall burns on birds and vegetation  
18.7 and to provide guidelines for maintaining  
18.8 healthy brushland habitat for a diversity of  
18.9 wildlife and plant species.

18.10 **(j) Pollinator Habitat Creation Along Urban**  
18.11 **Mississippi River**

18.12 \$129,000 the second year is from the trust  
18.13 fund to the commissioner of natural resources  
18.14 for an agreement with Friends of the  
18.15 Mississippi River to remove invasive plants  
18.16 and replace them with high-value native  
18.17 species at three urban sites along the  
18.18 Mississippi River to improve habitat for  
18.19 pollinators and other wildlife. This  
18.20 appropriation is available until June 30, 2025,  
18.21 by which time the project must be completed  
18.22 and final products delivered.

18.23 **(k) Increase Golden Shiner Production to Protect**  
18.24 **Aquatic Communities**

18.25 \$188,000 the second year is from the trust  
18.26 fund to the Board of Regents of the University  
18.27 of Minnesota for the Minnesota Sea Grant in  
18.28 Duluth to identify and demonstrate best  
18.29 methods for in-state production of golden  
18.30 shiners to address angler demand while  
18.31 reducing the risk of introducing and spreading  
18.32 invasive species and to communicate findings  
18.33 through reports, manuals, and workshops.  
18.34 Production of shiners in this project must not  
18.35 take place in wetlands.

19.1 **(l) Restoring Turf to Native Pollinator Gardens**  
 19.2 **Across Metro**

19.3 \$197,000 the second year is from the trust  
 19.4 fund to the commissioner of natural resources  
 19.5 for an agreement with Wilderness in the City  
 19.6 to transition turf to native gardens for  
 19.7 pollinator habitat, establish long-term  
 19.8 volunteer stewardship networks, and help  
 19.9 connect diverse populations with nature  
 19.10 throughout the metropolitan regional park  
 19.11 system. A letter of commitment from the  
 19.12 respective regional park implementing agency  
 19.13 must be provided before money from this  
 19.14 appropriation is spent at a regional park within  
 19.15 the agency's jurisdiction.

19.16 **Subd. 9. Land Acquisition,**  
 19.17 **Habitat, and Recreation**

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29,551,000

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

19.19 \$3,000,000 the second year is from the trust  
 19.20 fund to the commissioner of natural resources  
 19.21 for the scientific and natural area (SNA)  
 19.22 program to restore, improve, and enhance  
 19.23 wildlife habitat on SNAs; increase public  
 19.24 involvement and outreach; and strategically  
 19.25 acquire high-quality lands that meet criteria  
 19.26 for SNAs under Minnesota Statutes, section  
 19.27 86A.05, from willing sellers.

19.28 **(b) Private Native Prairie Conservation through**  
 19.29 **Native Prairie Bank**

19.30 \$2,000,000 the second year is from the trust  
 19.31 fund to the commissioner of natural resources  
 19.32 to provide technical stewardship assistance to  
 19.33 private landowners, restore and enhance native  
 19.34 prairie protected by easements in the native  
 19.35 prairie bank, and acquire easements for the

20.1 native prairie bank in accordance with  
 20.2 Minnesota Statutes, section 84.96, including  
 20.3 preparing initial baseline property assessments.  
 20.4 Up to \$60,000 of this appropriation may be  
 20.5 deposited in the natural resources conservation  
 20.6 easement stewardship account, created in  
 20.7 Minnesota Statutes, section 84.69, proportional  
 20.8 to the number of easement acres acquired.

20.9 **(c) Minnesota State Parks and State Trails**  
 20.10 **Inholdings**

20.11 \$3,500,000 the second year is from the trust  
 20.12 fund to the commissioner of natural resources  
 20.13 to acquire high-priority inholdings from  
 20.14 willing sellers within the legislatively  
 20.15 authorized boundaries of state parks,  
 20.16 recreation areas, and trails to protect  
 20.17 Minnesota's natural heritage, enhance outdoor  
 20.18 recreation, and promote tourism.

20.19 **(d) Grants for Local Parks, Trails, and Natural**  
 20.20 **Areas**

20.21 \$2,400,000 the second year is from the trust  
 20.22 fund to the commissioner of natural resources  
 20.23 to solicit, rank, and fund competitive matching  
 20.24 grants for local parks, trail connections, and  
 20.25 natural and scenic areas under Minnesota  
 20.26 Statutes, section 85.019. This appropriation is  
 20.27 for local nature-based recreation, connections  
 20.28 to regional and state natural areas, and  
 20.29 recreation facilities and may not be used for  
 20.30 athletic facilities such as sport fields, courts,  
 20.31 and playgrounds.

20.32 **(e) Mississippi River Aquatic Habitat**  
 20.33 **Restoration and Mussel Reintroduction**

20.34 \$1,800,000 the second year is from the trust  
 20.35 fund. Of this amount, \$1,549,000 is to the

21.1 commissioner of natural resources for an  
 21.2 agreement with the Minneapolis Park and  
 21.3 Recreation Board and \$251,000 is to the  
 21.4 commissioner of natural resources to restore  
 21.5 lost habitat and reintroduce mussels in the  
 21.6 Mississippi River above St. Anthony Falls.  
 21.7 This work includes creating habitat and  
 21.8 species restoration plans, implementing the  
 21.9 restoration plans, and monitoring effectiveness  
 21.10 of the restoration for multiple years after  
 21.11 implementation. This appropriation is  
 21.12 available until June 30, 2026, by which time  
 21.13 the project must be completed and final  
 21.14 products delivered.

21.15 **(f) Minnesota Hunter Walking Trails: Public**  
 21.16 **Land Recreational Access**

21.17 \$300,000 the second year is from the trust  
 21.18 fund to the commissioner of natural resources  
 21.19 for an agreement with the Ruffed Grouse  
 21.20 Society to improve Minnesota's hunter  
 21.21 walking trail system by restoring or upgrading  
 21.22 trailheads and trails, developing new walking  
 21.23 trails, and compiling enhanced maps for use  
 21.24 by managers and the public.

21.25 **(g) Turning Back to Rivers: Environmental and**  
 21.26 **Recreational Protection**

21.27 \$1,000,000 the second year is from the trust  
 21.28 fund to the commissioner of natural resources  
 21.29 for an agreement with The Trust for Public  
 21.30 Land to help local communities acquire  
 21.31 priority land along the Mississippi, St. Croix,  
 21.32 and Minnesota Rivers and their tributaries to  
 21.33 protect natural resources, provide buffers for  
 21.34 flooding, and improve access for recreation.

21.35 **(h) Metropolitan Regional Parks System Land**  
 21.36 **Acquisition - Phase VI**

22.1 \$1,000,000 the first year is from the trust fund  
22.2 to the Metropolitan Council for grants to  
22.3 acquire land within the approved park  
22.4 boundaries of the metropolitan regional park  
22.5 system. This appropriation must be matched  
22.6 by at least 40 percent of nonstate money.

22.7 **(i) Minnesota State Trails Development**

22.8 \$994,000 the second year is from the trust  
22.9 fund to the commissioner of natural resources  
22.10 to expand high-priority recreational  
22.11 opportunities on Minnesota's state trails by  
22.12 rehabilitating, improving, and enhancing  
22.13 existing state trails. The high-priority trail  
22.14 bridges to be rehabilitated or replaced under  
22.15 this appropriation include, but are not limited  
22.16 to, those on the Taconite, Great River Ridge,  
22.17 and C. J. Ramstad/Northshore State Trails.

22.18 **(j) Elm Creek Restoration - Phase IV**

22.19 \$500,000 the second year is from the trust  
22.20 fund to the commissioner of natural resources  
22.21 for an agreement with the city of Champlin to  
22.22 conduct habitat and stream restoration of  
22.23 approximately 0.7 miles of Elm Creek  
22.24 shoreline above Mill Pond Lake and through  
22.25 the Elm Creek Protection Area.

22.26 **(k) Superior Hiking Trail as Environmental**  
22.27 **Showcase**

22.28 \$450,000 the second year is from the trust  
22.29 fund to the commissioner of natural resources  
22.30 for an agreement with the Superior Hiking  
22.31 Trail Association to rebuild damaged and  
22.32 dangerous segments and create a new trail  
22.33 segment of the Superior Hiking Trail to  
22.34 minimize environmental impacts, make the

23.1 trail safer for users, and make the trail more  
 23.2 resilient for future use and conditions.

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

23.4 \$2,800,000 the second year is from the trust  
 23.5 fund to the commissioner of natural resources  
 23.6 for an agreement with the Friends of the Lock  
 23.7 and Dam in partnership with the city of  
 23.8 Minneapolis to design and install green  
 23.9 infrastructure, public access, and habitat  
 23.10 restorations on riverfront land at Upper St.  
 23.11 Anthony Falls for water protection, recreation,  
 23.12 and environmental education purposes. Of this  
 23.13 amount, up to \$600,000 is for planning,  
 23.14 design, and engagement. No funds from this  
 23.15 appropriation may be spent until Congress  
 23.16 directs the U.S. Army Corps of Engineers to  
 23.17 convey an interest in the Upper St. Anthony  
 23.18 Falls property to the city of Minneapolis for  
 23.19 use as a visitor center. After this congressional  
 23.20 act is signed into law, up to \$100,000 of the  
 23.21 planning, design, and engagement funds may  
 23.22 be spent. The remaining planning, design, and  
 23.23 engagement funds may be spent after a binding  
 23.24 agreement has been secured to acquire the land  
 23.25 or access and use rights to the land for at least  
 23.26 25 years. Any remaining balance of the  
 23.27 appropriation may be spent on installing  
 23.28 enhancements after the Upper St. Anthony  
 23.29 Falls land has been acquired by the city of  
 23.30 Minneapolis.

23.31 **(m) Whiskey Creek and Mississippi River Water**  
 23.32 **Quality, Habitat, and Recreation**

23.33 \$500,000 the second year is from the trust  
 23.34 fund to the commissioner of natural resources  
 23.35 for an agreement with the Mississippi

24.1 Headwaters Board to acquire and transfer  
 24.2 approximately 13 acres of land to the city of  
 24.3 Baxter for future construction of water quality,  
 24.4 habitat, and recreational improvements to  
 24.5 protect the Mississippi River.

24.6 **(n) Perham to Pelican Rapids Regional Trail**  
 24.7 **(West Segment)**

24.8 \$2,600,000 the second year is from the trust  
 24.9 fund to the commissioner of natural resources  
 24.10 for an agreement with Otter Tail County to  
 24.11 construct the west segment of the 32-mile  
 24.12 Perham to Pelican Rapids Regional Trail that  
 24.13 will connect the city of Pelican Rapids to  
 24.14 Maplewood State Park.

24.15 **(o) Crow Wing County Community Natural**  
 24.16 **Area Acquisition**

24.17 \$400,000 the second year is from the trust  
 24.18 fund to the commissioner of natural resources  
 24.19 for an agreement with Crow Wing County to  
 24.20 acquire approximately 65 acres of land  
 24.21 adjacent to the historic fire tower property to  
 24.22 allow for diverse recreational opportunities  
 24.23 while protecting wildlife habitat and  
 24.24 preventing forest fragmentation. Any revenue  
 24.25 generated from selling products or assets  
 24.26 developed or acquired with this appropriation  
 24.27 must be repaid to the trust fund unless a plan  
 24.28 is approved for reinvestment of income in the  
 24.29 project as provided under Minnesota Statutes,  
 24.30 section 116P.10.

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

24.32 \$1,200,000 the second year is from the trust  
 24.33 fund to the commissioner of natural resources  
 24.34 for an agreement with the Rocori Trail  
 24.35 Construction Board to design and construct



25.1 Phase III of the Rocori Trail along the old  
25.2 Burlington Northern Santa Fe rail corridor  
25.3 between the cities of Cold Spring and  
25.4 Rockville.

25.5 **(q) Mesabi Trail: New Trail and Additional**  
25.6 **Funding**

25.7 \$1,000,000 the second year is from the trust  
25.8 fund to the commissioner of natural resources  
25.9 for an agreement with the St. Louis and Lake  
25.10 Counties Regional Railroad Authority for  
25.11 constructing the Mesabi Trail beginning at the  
25.12 intersection of County Road 20 and Minnesota  
25.13 State Highway 135 and terminating at 1st  
25.14 Avenue North and 1st Street North in the city  
25.15 of Biwabik in St. Louis County. This  
25.16 appropriation may not be spent until all  
25.17 Mesabi Trail projects funded with trust fund  
25.18 appropriations before fiscal year 2020, with  
25.19 the exception of the project funded under Laws  
25.20 2017, chapter 96, section 2, subdivision 9,  
25.21 paragraph (g), are completed.

25.22 **(r) Ranier Safe Harbor and Transient Dock on**  
25.23 **Rainy Lake**

25.24 \$762,000 the second year is from the trust  
25.25 fund to the commissioner of natural resources  
25.26 for an agreement with the city of Ranier to  
25.27 construct a dock that accommodates boats 26  
25.28 feet or longer with the goal of increasing  
25.29 public access for boat recreation on Rainy  
25.30 Lake. Any revenue generated from selling  
25.31 products or assets developed or acquired with  
25.32 this appropriation must be repaid to the trust  
25.33 fund unless a plan is approved for  
25.34 reinvestment of income in the project as  
25.35 provided under Minnesota Statutes, section  
25.36 116P.10.

26.1 **(s) Crane Lake Voyageurs National Park**  
26.2 **Campground and Visitor Center**

26.3 \$3,100,000 the second year is from the trust  
26.4 fund to the commissioner of natural resources  
26.5 for an agreement with the town of Crane Lake  
26.6 to design and construct a new campground  
26.7 and to plan and preliminarily prepare a site  
26.8 for constructing a new Voyageurs National  
26.9 Park visitor center on land acquired for these  
26.10 purposes in Crane Lake. Any revenue  
26.11 generated from selling products or assets  
26.12 developed or acquired with this appropriation  
26.13 must be repaid to the trust fund unless a plan  
26.14 is approved for reinvestment of income in the  
26.15 project as provided under Minnesota Statutes,  
26.16 section 116P.10.

26.17 **(t) Chippewa County Acquisition, Recreation,**  
26.18 **and Education**

26.19 \$160,000 the second year is from the trust  
26.20 fund to the commissioner of natural resources  
26.21 for an agreement with Chippewa County to  
26.22 acquire wetland and floodplain forest and  
26.23 abandoned gravel pits along the Minnesota  
26.24 River to provide water filtration, education,  
26.25 and recreational opportunities.

26.26 **(u) Sportsmen's Training and Developmental**  
26.27 **Learning Center**

26.28 \$85,000 the second year is from the trust fund  
26.29 to the commissioner of natural resources for  
26.30 an agreement with the Minnesota Forest Zone  
26.31 Trappers Association to complete a site  
26.32 evaluation and master plan for the Sportsmen's  
26.33 Training and Developmental Learning Center  
26.34 near Hibbing. Any revenue generated from  
26.35 selling products or assets developed or  
26.36 acquired with this appropriation must be

27.1 repaid to the trust fund unless a plan is  
 27.2 approved for reinvestment of income in the  
 27.3 project as provided under Minnesota Statutes,  
 27.4 section 116P.10.

27.5 **Subd. 10. Contract**

27.6 **Agreement Reimbursement**

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135,000

27.7 \$135,000 the second year is from the trust  
 27.8 fund to the commissioner of natural resources,  
 27.9 at the direction of the Legislative-Citizen  
 27.10 Commission on Minnesota Resources, for  
 27.11 expenses incurred for preparing and  
 27.12 administering contracts for the agreements  
 27.13 specified in this section. The commissioner  
 27.14 must provide documentation to the  
 27.15 Legislative-Citizen Commission on Minnesota  
 27.16 Resources on the expenditure of these funds.

27.17 **Subd. 11. Wastewater Treatment**

27.18 **Recommendations**

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1,500,000

27.19 \$1,500,000 the second year is from the trust  
 27.20 fund to the Public Facilities Authority for  
 27.21 grants to home rule and statutory cities and  
 27.22 towns with a population under 5,000 for  
 27.23 projects in the water infrastructure funding  
 27.24 program under Minnesota Statutes, section  
 27.25 446A.072, and the point source  
 27.26 implementation program under Minnesota  
 27.27 Statutes, section 446A.073.

27.28 **Subd. 12. Availability of Appropriations**

27.29 Money appropriated in this section may not  
 27.30 be spent on activities unless they are directly  
 27.31 related to and necessary for a specific  
 27.32 appropriation and are specified in the work  
 27.33 plan approved by the Legislative-Citizen  
 27.34 Commission on Minnesota Resources. Money  
 27.35 appropriated in this section must not be spent

28.1 on indirect costs or other institutional overhead  
28.2 charges that are not directly related to and  
28.3 necessary for a specific appropriation. Costs  
28.4 that are directly related to and necessary for  
28.5 an appropriation, including financial services,  
28.6 human resources, information services, rent,  
28.7 and utilities, are eligible only if the costs can  
28.8 be clearly justified and individually  
28.9 documented specific to the appropriation's  
28.10 purpose and would not be generated by the  
28.11 recipient but for receipt of the appropriation.  
28.12 No broad allocations for costs in either dollars  
28.13 or percentages are allowed. Unless otherwise  
28.14 provided, the amounts in this section are  
28.15 available until June 30, 2023, when projects  
28.16 must be completed and final products  
28.17 delivered. For acquisition of real property, the  
28.18 appropriations in this section are available for  
28.19 an additional fiscal year if a binding contract  
28.20 for acquisition of the real property is entered  
28.21 into before the expiration date of the  
28.22 appropriation. If a project receives a federal  
28.23 grant, the time period of the appropriation is  
28.24 extended to equal the federal grant period.  
28.25 **Subd. 13. Data Availability Requirements**  
28.26 Data collected by the projects funded under  
28.27 this section must conform to guidelines and  
28.28 standards adopted by MN.IT Services. Spatial  
28.29 data must also conform to additional  
28.30 guidelines and standards designed to support  
28.31 data coordination and distribution that have  
28.32 been published by the Minnesota Geospatial  
28.33 Information Office. Descriptions of spatial  
28.34 data must be prepared as specified in the state's  
28.35 geographic metadata guideline and must be

29.1 submitted to the Minnesota Geospatial  
29.2 Information Office. All data must be  
29.3 accessible and free to the public unless made  
29.4 private under the Data Practices Act,  
29.5 Minnesota Statutes, chapter 13. To the extent  
29.6 practicable, summary data and results of  
29.7 projects funded under this section should be  
29.8 readily accessible on the Internet and  
29.9 identified as having received funding from the  
29.10 environment and natural resources trust fund.

29.11 **Subd. 14. Project Requirements**

29.12 (a) As a condition of accepting an  
29.13 appropriation under this section, an agency or  
29.14 entity receiving an appropriation or a party to  
29.15 an agreement from an appropriation must  
29.16 comply with paragraphs (b) to (l) and  
29.17 Minnesota Statutes, chapter 116P, and must  
29.18 submit a work plan and annual or semiannual  
29.19 progress reports in the form determined by the  
29.20 Legislative-Citizen Commission on Minnesota  
29.21 Resources for any project funded in whole or  
29.22 in part with funds from the appropriation.

29.23 Modifications to the approved work plan and  
29.24 budget expenditures must be made through  
29.25 the amendment process established by the  
29.26 Legislative-Citizen Commission on Minnesota  
29.27 Resources.

29.28 (b) A recipient of money appropriated in this  
29.29 section that conducts a restoration using funds  
29.30 appropriated in this section must use native  
29.31 plant species according to the Board of Water  
29.32 and Soil Resources' native vegetation  
29.33 establishment and enhancement guidelines  
29.34 and include an appropriate diversity of native  
29.35 species selected to provide habitat for

30.1 pollinators throughout the growing season as  
30.2 required under Minnesota Statutes, section  
30.3 84.973.

30.4 (c) For all restorations conducted with money  
30.5 appropriated under this section, a recipient  
30.6 must prepare an ecological restoration and  
30.7 management plan that, to the degree  
30.8 practicable, is consistent with the  
30.9 highest-quality conservation and ecological  
30.10 goals for the restoration site. Consideration  
30.11 should be given to soil, geology, topography,  
30.12 and other relevant factors that would provide  
30.13 the best chance for long-term success and  
30.14 durability of the restoration project. The plan  
30.15 must include the proposed timetable for  
30.16 implementing the restoration, including site  
30.17 preparation, establishment of diverse plant  
30.18 species, maintenance, and additional  
30.19 enhancement to establish the restoration;  
30.20 identify long-term maintenance and  
30.21 management needs of the restoration and how  
30.22 the maintenance, management, and  
30.23 enhancement will be financed; and take  
30.24 advantage of the best-available science and  
30.25 include innovative techniques to achieve the  
30.26 best restoration.

30.27 (d) An entity receiving an appropriation in this  
30.28 section for restoration activities must provide  
30.29 an initial restoration evaluation at the  
30.30 completion of the appropriation and an  
30.31 evaluation three years after the completion of  
30.32 the expenditure. Restorations must be  
30.33 evaluated relative to the stated goals and  
30.34 standards in the restoration plan, current  
30.35 science, and, when applicable, the Board of

- 31.1 Water and Soil Resources' native vegetation  
31.2 establishment and enhancement guidelines.  
31.3 The evaluation must determine whether the  
31.4 restorations are meeting planned goals,  
31.5 identify any problems with implementing the  
31.6 restorations, and, if necessary, give  
31.7 recommendations on improving restorations.  
31.8 The evaluation must be focused on improving  
31.9 future restorations.
- 31.10 (e) All restoration and enhancement projects  
31.11 funded with money appropriated in this section  
31.12 must be on land permanently protected by a  
31.13 conservation easement or public ownership.
- 31.14 (f) A recipient of money from an appropriation  
31.15 under this section must give consideration to  
31.16 contracting with Conservation Corps  
31.17 Minnesota for contract restoration and  
31.18 enhancement services.
- 31.19 (g) All conservation easements acquired with  
31.20 money appropriated under this section must:
- 31.21 (1) be permanent;  
31.22 (2) specify the parties to an easement in the  
31.23 easement;  
31.24 (3) specify all of the provisions of an  
31.25 agreement that are permanent;  
31.26 (4) be sent to the Legislative-Citizen  
31.27 Commission on Minnesota Resources in an  
31.28 electronic format at least ten business days  
31.29 before closing;  
31.30 (5) include a long-term monitoring and  
31.31 enforcement plan and funding for monitoring  
31.32 and enforcing the easement agreement; and

- 32.1 (6) include requirements in the easement  
32.2 document to protect the quantity and quality  
32.3 of groundwater and surface water through  
32.4 specific activities such as keeping water on  
32.5 the landscape, reducing nutrient and  
32.6 contaminant loading, and not permitting  
32.7 artificial hydrological modifications.
- 32.8 (h) For any acquisition of lands or interest in  
32.9 lands, a recipient of money appropriated under  
32.10 this section must not agree to pay more than  
32.11 100 percent of the appraised value for a parcel  
32.12 of land using this money to complete the  
32.13 purchase, in part or in whole, except that up  
32.14 to ten percent above the appraised value may  
32.15 be allowed to complete the purchase, in part  
32.16 or in whole, using this money if permission is  
32.17 received in advance of the purchase from the  
32.18 Legislative-Citizen Commission on Minnesota  
32.19 Resources.
- 32.20 (i) For any acquisition of land or interest in  
32.21 land, a recipient of money appropriated under  
32.22 this section must give priority to high-quality  
32.23 natural resources or conservation lands that  
32.24 provide natural buffers to water resources.
- 32.25 (j) For new lands acquired with money  
32.26 appropriated under this section, a recipient  
32.27 must prepare an ecological restoration and  
32.28 management plan in compliance with  
32.29 paragraph (c), including sufficient funding for  
32.30 implementation unless the work plan addresses  
32.31 why a portion of the money is not necessary  
32.32 to achieve a high-quality restoration.
- 32.33 (k) To ensure public accountability for using  
32.34 public funds, a recipient of money  
32.35 appropriated under this section must, within



33.1 60 days of the transaction, provide to the  
33.2 Legislative-Citizen Commission on Minnesota  
33.3 Resources documentation of the selection  
33.4 process used to identify parcels acquired and  
33.5 provide documentation of all related  
33.6 transaction costs, including but not limited to  
33.7 appraisals, legal fees, recording fees,  
33.8 commissions, other similar costs, and  
33.9 donations. This information must be provided  
33.10 for all parties involved in the transaction. The  
33.11 recipient must also report to the  
33.12 Legislative-Citizen Commission on Minnesota  
33.13 Resources any difference between the  
33.14 acquisition amount paid to the seller and the  
33.15 state-certified or state-reviewed appraisal, if  
33.16 a state-certified or state-reviewed appraisal  
33.17 was conducted.

33.18 (l) A recipient of an appropriation from the  
33.19 trust fund under this section must acknowledge  
33.20 financial support from the environment and  
33.21 natural resources trust fund in project  
33.22 publications, signage, and other public  
33.23 communications and outreach related to work  
33.24 completed using the appropriation.

33.25 Acknowledgment may occur, as appropriate,  
33.26 through use of the trust fund logo or inclusion  
33.27 of language attributing support from the trust  
33.28 fund. Each direct recipient of money  
33.29 appropriated in this section, as well as each  
33.30 recipient of a grant awarded pursuant to this  
33.31 section, must satisfy all reporting and other  
33.32 requirements incumbent upon constitutionally  
33.33 dedicated funding recipients as provided in  
33.34 Minnesota Statutes, section 3.303, subdivision  
33.35 10, and chapter 116P.

34.1 **Subd. 15. Payment Conditions and**  
34.2 **Capital-Equipment Expenditures**

34.3 (a) All agreements, grants, or contracts  
34.4 referred to in this section must be administered  
34.5 on a reimbursement basis unless otherwise  
34.6 provided in this section. Notwithstanding  
34.7 Minnesota Statutes, section 16A.41,  
34.8 expenditures made on or after July 1, 2020,  
34.9 or the date the work plan is approved,  
34.10 whichever is later, are eligible for  
34.11 reimbursement unless otherwise provided in  
34.12 this section. Periodic payments must be made  
34.13 upon receiving documentation that the  
34.14 deliverable items articulated in the approved  
34.15 work plan have been achieved, including  
34.16 partial achievements as evidenced by approved  
34.17 progress reports. Reasonable amounts may be  
34.18 advanced to projects to accommodate  
34.19 cash-flow needs or match federal money. The  
34.20 advances must be approved as part of the work  
34.21 plan. No expenditures for capital equipment  
34.22 are allowed unless expressly authorized in the  
34.23 project work plan.

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

34.26 **Subd. 16. Purchasing Recycled and Recyclable**  
34.27 **Materials**

34.28 A political subdivision, public or private  
34.29 corporation, or other entity that receives an  
34.30 appropriation under this section must use the  
34.31 appropriation in compliance with Minnesota  
34.32 Statutes, section 16C.0725, regarding  
34.33 purchasing recycled, repairable, and durable  
34.34 materials and Minnesota Statutes, section  
34.35 16C.073, regarding purchasing and using  
34.36 paper stock and printing.

35.1 **Subd. 17. Energy Conservation and Sustainable**  
35.2 **Building Guidelines**

35.3 A recipient to whom an appropriation is made  
35.4 under this section for a capital improvement  
35.5 project must ensure that the project complies  
35.6 with the applicable energy conservation and  
35.7 sustainable building guidelines and standards  
35.8 contained in law, including Minnesota  
35.9 Statutes, sections 16B.325, 216C.19, and  
35.10 216C.20, and rules adopted under those  
35.11 sections. The recipient may use the energy  
35.12 planning, advocacy, and State Energy Office  
35.13 units of the Department of Commerce to  
35.14 obtain information and technical assistance  
35.15 on energy conservation and alternative-energy  
35.16 development relating to planning and  
35.17 constructing the capital improvement project.

35.18 **Subd. 18. Accessibility**

35.19 Structural and nonstructural facilities must  
35.20 meet the design standards in the Americans  
35.21 with Disabilities Act (ADA) accessibility  
35.22 guidelines.

35.23 **Subd. 19. Carryforward; Extension**

35.24 (a) The availability of the appropriations for  
35.25 the following projects is extended to June 30,  
35.26 2021:

35.27 (1) Laws 2017, chapter 96, section 2,  
35.28 subdivision 7, paragraph (e), Geotargeted  
35.29 Distributed Clean Energy Initiative;

35.30 (2) Laws 2017, chapter 96, section 2,  
35.31 subdivision 8, paragraph (a), Optimizing the  
35.32 Nutrition of Roadside Plants for Pollinators;

- 36.1 (3) Laws 2017, chapter 96, section 2,  
36.2 subdivision 8, paragraph (f), Prescribed-Fire  
36.3 Management for Roadside Prairies;
- 36.4 (4) Laws 2017, chapter 96, section 2,  
36.5 subdivision 8, paragraph (h), Mississippi and  
36.6 Vermillion Rivers Restoration of Prairie,  
36.7 Savanna, and Forest Habitat - Phase X;
- 36.8 (5) Laws 2017, chapter 96, section 2,  
36.9 subdivision 9, paragraph (e), Native Prairie  
36.10 Stewardship and Prairie Bank Easement  
36.11 Acquisition, as amended by Laws 2019, First  
36.12 Special Session chapter 4, article 2, section 4;
- 36.13 (6) Laws 2018, chapter 214, article 4, section  
36.14 2, subdivision 5, paragraph (j), Expanding the  
36.15 State's Reuse Economy to Conserve Natural  
36.16 Resources; and
- 36.17 (7) Laws 2018, chapter 214, article 4, section  
36.18 2, subdivision 6, paragraph (b), Palmer  
36.19 Amaranth Detection and Eradication  
36.20 Continuation.
- 36.21 (b) The availability of the appropriations for  
36.22 the following projects is extended to June 30,  
36.23 2022:
- 36.24 (1) Laws 2017, chapter 96, section 2,  
36.25 subdivision 8, paragraph (k), Conservation  
36.26 Reserve Enhancement Program (CREP)  
36.27 Outreach and Implementation; and
- 36.28 (2) Laws 2017, chapter 96, section 2,  
36.29 subdivision 9, paragraph (h), Tower Trailhead  
36.30 Boat Landing and Habitat Improvement -  
36.31 Phase II.

37.1 (c) The availability of the appropriations for  
 37.2 the following projects is extended to June 30,  
 37.3 2023:

37.4 (1) Laws 2018, chapter 214, article 4, section  
 37.5 2, subdivision 10, Emerging Issues Account;  
 37.6 and

37.7 (2) Laws 2019, First Special Session chapter  
 37.8 4, article 2, section 2, subdivision 8, paragraph  
 37.9 (f), Lawns to Legumes.

37.10 (d) The availability of the appropriation under  
 37.11 Laws 2018, chapter 214, article 4, section 2,  
 37.12 subdivision 4, paragraph (1), Lake Agnes  
 37.13 Treatment, is extended to June 30, 2024.

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

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

37.18 **(a) Metropolitan Regional Parks System Land**  
 37.19 **Acquisition**

37.20 \$1,500,000 the first year is from the trust fund  
 37.21 to the Metropolitan Council for grants to  
 37.22 acquire approximately 70 acres of land within  
 37.23 the approved park boundaries of the  
 37.24 metropolitan regional park system. This  
 37.25 appropriation may not be used to purchase  
 37.26 habitable residential structures. A list of  
 37.27 proposed fee title acquisitions must be  
 37.28 provided as part of the required work plan.  
 37.29 This appropriation must be matched by at least  
 37.30 40 percent of nonstate money that must be  
 37.31 committed by December 31, 2017. This  
 37.32 appropriation is available until June 30, 2020,  
 37.33 by which time the project must be completed  
 37.34 and final products delivered.

38.1 **(b) Scientific and Natural Areas Acquisition and**  
38.2 **Restoration, Citizen Science, and Engagement**

38.3 \$2,500,000 the first year is from the trust fund  
38.4 to the commissioner of natural resources to  
38.5 acquire land with high-quality native plant  
38.6 communities and rare features to be  
38.7 established as scientific and natural areas as  
38.8 provided in Minnesota Statutes, section  
38.9 86A.05, subdivision 5, restore and improve  
38.10 scientific and natural areas, and provide  
38.11 technical assistance and outreach, including  
38.12 site steward events. At least one-third of the  
38.13 appropriation must be spent on restoration  
38.14 activities. A list of proposed acquisitions and  
38.15 restorations must be provided as part of the  
38.16 required work plan. Land acquired with this  
38.17 appropriation must be sufficiently improved  
38.18 to meet at least minimum management  
38.19 standards, as determined by the commissioner  
38.20 of natural resources. When feasible,  
38.21 consideration must be given to accommodate  
38.22 trails on lands acquired. This appropriation is  
38.23 available until June 30, 2020, by which time  
38.24 the project must be completed and final  
38.25 products delivered.

38.26 **(c) Minnesota State Parks and State Trails Land**  
38.27 **Acquisition**

38.28 \$1,500,000 the first year is from the trust fund  
38.29 to the commissioner of natural resources to  
38.30 acquire approximately 373 acres from willing  
38.31 sellers for authorized state trails and critical  
38.32 parcels within the statutory boundaries of state  
38.33 parks. State park land acquired with this  
38.34 appropriation must be sufficiently improved  
38.35 to meet at least minimum management  
38.36 standards, as determined by the commissioner

39.1 of natural resources. A list of proposed  
39.2 acquisitions must be provided as part of the  
39.3 required work plan. This appropriation is  
39.4 available until June 30, 2020, by which time  
39.5 the project must be completed and final  
39.6 products delivered.

39.7 **(d) Minnesota State Trails Acquisition,**  
39.8 **Development, and Enhancement**

39.9 \$999,000 in fiscal year 2017 and \$39,000 the  
39.10 first year are from the trust fund to the  
39.11 commissioner of natural resources for state  
39.12 trail acquisition, development, and  
39.13 enhancement in southern Minnesota. A  
39.14 proposed list of trail projects on authorized  
39.15 state trails must be provided as part of the  
39.16 required work plan. This appropriation is  
39.17 available until June 30, 2020, by which time  
39.18 the project must be completed and final  
39.19 products delivered.

39.20 **(e) Native Prairie Stewardship and Prairie Bank**  
39.21 **Easement Acquisition**

39.22 \$2,675,000 the first year is from the trust fund  
39.23 to the commissioner of natural resources to  
39.24 acquire native prairie bank easements in  
39.25 accordance with Minnesota Statutes, section  
39.26 84.96, on approximately 250 acres, prepare  
39.27 baseline property assessments, restore and  
39.28 enhance native prairie sites, and provide  
39.29 technical assistance to landowners. Of this  
39.30 amount, up to \$132,000 may be deposited in  
39.31 a conservation easement stewardship account.  
39.32 Deposits into the conservation easement  
39.33 stewardship account must be made upon  
39.34 closing on conservation easements or at a time  
39.35 otherwise approved in the work plan. A list of  
39.36 proposed easement acquisitions must be

40.1 provided as part of the required work plan.

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

40.5 **(f) Leech Lake Acquisition**

40.6 \$1,500,000 the first year is from the trust fund  
40.7 to the commissioner of natural resources for  
40.8 an agreement with the Leech Lake Band of  
40.9 Ojibwe to acquire approximately 45 acres,  
40.10 including 0.67 miles of shoreline of  
40.11 high-quality aquatic and wildlife habitat at the  
40.12 historic meeting place between Henry  
40.13 Schoolcraft and the Anishinabe people. The  
40.14 land must be open to public use including  
40.15 hunting and fishing. The band must provide a  
40.16 commitment that land will not be put in a  
40.17 federal trust through the Bureau of Indian  
40.18 Affairs.

40.19 **(g) Mesabi Trail Development**

40.20 \$2,269,000 the first year is from the trust fund  
40.21 to the commissioner of natural resources for  
40.22 an agreement with the St. Louis and Lake  
40.23 Counties Regional Railroad Authority for  
40.24 engineering and constructing segments of the  
40.25 Mesabi Trail. This appropriation is available  
40.26 until June 30, 2020, by which time the project  
40.27 must be completed and final products  
40.28 delivered.

40.29 **(h) Tower Trailhead Boat Landing and Habitat  
40.30 Improvement - Phase II**

40.31 \$600,000 the first year is from the trust fund  
40.32 to the commissioner of natural resources for  
40.33 an agreement with the city of Tower to  
40.34 construct a trailhead, trail connection to the  
40.35 Mesabi Trail, and boat landing and to restore



41.1 vegetative habitat on city-owned property.  
 41.2 Plant and seed materials must follow the Board  
 41.3 of Water and Soil Resources' native vegetation  
 41.4 establishment and enhancement guidelines.  
 41.5 This appropriation is available until June 30,  
 41.6 2020, by which time the project must be  
 41.7 completed and final products delivered.

41.8 **(i) Land Acquisition for Voyageurs National**  
 41.9 **Park Crane Lake Visitors Center**

41.10 \$950,000 the first year is from the trust fund  
 41.11 to the commissioner of natural resources for  
 41.12 an agreement with the town of Crane Lake, in  
 41.13 partnership with Voyageurs National Park and  
 41.14 the Department of Natural Resources, to  
 41.15 acquire approximately 30 acres to be used for  
 41.16 a visitor center and campground. Income  
 41.17 generated by the campground may be used to  
 41.18 support the facility.

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

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

41.21 **Subd. 6. Aquatic and Terrestrial Invasive**  
 41.22 **Species**

-0- 5,760,000

41.23 **(a) Minnesota Invasive Terrestrial Plants and**  
 41.24 **Pests Center - Phase 4**

41.25 \$3,500,000 the second year is from the trust  
 41.26 fund to the Board of Regents of the University  
 41.27 of Minnesota for high-priority research at the  
 41.28 Invasive Terrestrial Plants and Pests Center  
 41.29 to protect Minnesota's natural and agricultural  
 41.30 resources from terrestrial invasive plants,  
 41.31 pathogens, and pests as identified through the  
 41.32 center's strategic prioritization process. This  
 41.33 appropriation is available until June 30, 2023,  
 41.34 by which time the project must be completed  
 41.35 and final products delivered.

42.1 **(b) Palmer Amaranth Detection and Eradication**  
42.2 **Continuation**

42.3 \$431,000 the second year is from the trust  
42.4 fund to the commissioner of agriculture to  
42.5 continue to monitor, ground survey, and  
42.6 control Palmer amaranth and other prohibited  
42.7 eradicate species of noxious weeds primarily  
42.8 in ~~conservation plantings~~ natural areas and to  
42.9 develop and implement aerial-survey methods  
42.10 to prevent infestation and protect prairies,  
42.11 other natural areas, and agricultural crops.

42.12 **(c) Evaluate Control Methods for Invasive**  
42.13 **Hybrid Cattails**

42.14 \$131,000 the second year is from the trust  
42.15 fund to the commissioner of natural resources  
42.16 for an agreement with Voyageurs National  
42.17 Park to evaluate the effectiveness of  
42.18 mechanical harvesting and managing muskrat  
42.19 populations to remove exotic hybrid cattails  
42.20 and restore fish and wildlife habitat in  
42.21 Minnesota wetlands. This appropriation is  
42.22 available until June 30, 2021, by which time  
42.23 the project must be completed and final  
42.24 products delivered.

42.25 **(d) Developing RNA Interference to Control**  
42.26 **Zebra Mussels**

42.27 \$500,000 the second year is from the trust  
42.28 fund to the commissioner of natural resources  
42.29 for an agreement with the United States  
42.30 Geological Survey to develop a genetic control  
42.31 tool that exploits the natural process of RNA  
42.32 silencing to specifically target and effectively  
42.33 control zebra mussels without affecting other  
42.34 species or causing other nontarget effects. This  
42.35 appropriation is available until June 30, 2021,

43.1 by which time the project must be completed  
43.2 and final products delivered.

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

43.5 \$998,000 the second year is from the trust  
43.6 fund to the Board of Regents of the University  
43.7 of Minnesota in cooperation with the United  
43.8 States Army Corps of Engineers and the  
43.9 United States Fish and Wildlife Service to  
43.10 install, evaluate, and optimize a system in  
43.11 Mississippi River locks and dams to deter  
43.12 passage of invasive carp without negatively  
43.13 impacting native fish and to evaluate the  
43.14 ability of predator fish in the pools above the  
43.15 locks and dams to consume young carp. The  
43.16 project must conduct a cost comparison of  
43.17 equipment purchase versus lease options and  
43.18 choose the most effective option. This  
43.19 appropriation is available until June 30, 2021,  
43.20 by which time the project must be completed  
43.21 and final products delivered.

43.22 **(f) Determining Risk of Toxic Alga in Minnesota**  
43.23 **Lakes**

43.24 \$200,000 the second year is from the trust  
43.25 fund to the Science Museum of Minnesota for  
43.26 the St. Croix Watershed Research Station to  
43.27 determine the historical distribution,  
43.28 abundance, and toxicity of the invasive  
43.29 blue-green alga, *Cylindrospermopsis*  
43.30 *raciborskii*, in about 20 lakes across Minnesota  
43.31 and inform managers and the public about the  
43.32 alga's spread and health risks. This  
43.33 appropriation is available until June 30, 2021,  
43.34 by which time the project must be completed  
43.35 and final products delivered.