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State of Minnesota

HOUSE OF REPRESENTATIVES

NINETY-FIRST SESSION

H. F. No. 4498

03/16/2020 Authored by Hansen and Wagenius
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

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.

Table with 2 columns: 2020, 2021. Header: APPROPRIATIONS Available for the Year Ending June 30

1.19 Sec. 2. MINNESOTA RESOURCES

1.20 Subdivision 1. Total
1.21 Appropriation \$ 2,768,000 \$ 61,387,000

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,

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 **Subd. 6. Aquatic and**
- 13.2 **Terrestrial Invasive Species** 320,000 11,520,000

- 13.3 **(a) Minnesota Invasive Terrestrial Plants and**
- 13.4 **Pests Center (MITPPC) - Phase V**

- 13.5 \$5,658,000 the second year is from the trust
- 13.6 fund to the Board of Regents of the University
- 13.7 of Minnesota to support the Minnesota
- 13.8 Invasive Terrestrial Plants and Pests Center
- 13.9 to fund approximately 15 new, high-priority
- 13.10 research projects that will lead to better
- 13.11 management of invasive plants, pathogens,
- 13.12 and pests on Minnesota's natural and
- 13.13 agricultural lands. This appropriation is subject
- 13.14 to Minnesota Statutes, section 116P.10. This
- 13.15 appropriation is available until June 30, 2025,
- 13.16 by which time the project must be completed
- 13.17 and final products delivered.

- 13.18 **(b) Protect Community Forests by Managing**
- 13.19 **Ash for Emerald Ash Borer**

- 13.20 \$320,000 the first year and \$3,937,000 the
- 13.21 second year are from the trust fund to the
- 13.22 commissioner of natural resources to reduce
- 13.23 emerald ash borer by providing surveys,
- 13.24 assessments, trainings, assistance, and grants
- 13.25 for communities to manage emerald ash borer,
- 13.26 plant a diversity of trees, and engage citizens
- 13.27 in community forestry activities. This
- 13.28 appropriation is available until June 30, 2024,
- 13.29 by which time the project must be completed
- 13.30 and final products delivered.

- 13.31 **(c) Biological Control of White-Nose Syndrome**
- 13.32 **in Bats - Phase III**

- 13.33 \$440,000 the second year is from the trust
- 13.34 fund to the Board of Regents of the University
- 13.35 of Minnesota to continue assessing and

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**

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135,000

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

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 (1), 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. Land Acquisition,			
39.21	Habitat, and Recreation	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**

-0- 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.