

SENATE
STATE OF MINNESOTA
NINETY-SECOND SESSION

S.F. No. 166

(SENATE AUTHORS: INGEBRIGTSEN, Tomassoni and Ruud)

Table with columns: DATE, D-PG, OFFICIAL STATUS. Rows include dates 01/19/2021 and 01/21/2021 with corresponding D-PG numbers and descriptions of legislative actions.

1.1 A bill for an act
1.2 relating to environment; 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 columns: APPROPRIATIONS Available for the Year Ending June 30, 2020, 2021. Values: -0-, 61,387,000.

1.19 Sec. 2. MINNESOTA RESOURCES

1.20 Subdivision 1. Total
1.21 Appropriation \$ -0- \$ 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 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 Subd. 4. **Water Resources** -0- 3,457,000
- 7.2 (a) **Managing Highly Saline Waste from**
- 7.3 **Municipal Water Treatment**
- 7.4 \$250,000 the second year is from the trust
- 7.5 fund to the Board of Regents of the University
- 7.6 of Minnesota to develop a cost- and
- 7.7 energy-efficient method of managing the
- 7.8 concentrated saline waste from a municipal
- 7.9 water treatment plant to increase the feasibility
- 7.10 of using reverse osmosis for centralized water
- 7.11 softening and sulfate removal. This
- 7.12 appropriation is subject to Minnesota Statutes,
- 7.13 section 116P.10.
- 7.14 (b) **Technology for Energy-Generating On-site**
- 7.15 **Industrial Wastewater Treatment**
- 7.16 \$450,000 the second year is from the trust
- 7.17 fund to the Board of Regents of the University
- 7.18 of Minnesota to improve water quality and
- 7.19 generate cost savings by developing off the
- 7.20 shelf technology that treats industrial
- 7.21 wastewater on-site and turns pollutants into
- 7.22 hydrogen and methane for energy. This
- 7.23 appropriation is subject to Minnesota Statutes,
- 7.24 section 116P.10.
- 7.25 (c) **Microplastics: Transporters of Contaminants**
- 7.26 **in Minnesota Waters**
- 7.27 \$425,000 the second year is from the trust
- 7.28 fund to the Board of Regents of the University
- 7.29 of Minnesota to study how several types of
- 7.30 common microplastics transport contaminants
- 7.31 of concern in Minnesota waters.
- 7.32 (d) **Developing Strategies to Manage PFAS in**
- 7.33 **Land-Applied Biosolids**
- 7.34 \$1,404,000 the second year is from the trust
- 7.35 fund to the commissioner of the Pollution

8.1 Control Agency to help municipal wastewater
8.2 plants, landfills, and compost facilities protect
8.3 human health and the environment by
8.4 developing strategies to manage per- and
8.5 polyfluoroalkyl substances (PFAS) in
8.6 land-applied biosolids.

8.7 **(e) Quantifying New Urban Precipitation and**
8.8 **Water Reality**

8.9 \$500,000 the second year is from the trust
8.10 fund to the Board of Regents of the University
8.11 of Minnesota to better guide storm water
8.12 management by evaluating the groundwater
8.13 and surface water interactions contributing to
8.14 high water tables and damage to home
8.15 basements and underground infrastructure in
8.16 urban areas.

8.17 **(f) Innovative Solution for Protecting Minnesota**
8.18 **from PFAS Contamination**

8.19 \$250,000 the second year is from the trust
8.20 fund to the commissioner of natural resources
8.21 for an agreement with Dem-Con Companies
8.22 to demonstrate a new technology for
8.23 protecting the state's drinking water and
8.24 natural resources by eliminating per- and
8.25 polyfluoroalkyl substances (PFAS) from point
8.26 source discharges. This appropriation is
8.27 subject to Minnesota Statutes, section 116P.10,
8.28 related to royalties, copyrights, patents, and
8.29 sale of products and assets.

8.30 **(g) Expanding Protection of Minnesota Water**
8.31 **through Industrial Conservation**

8.32 \$178,000 the second year is from the trust
8.33 fund to the Board of Regents of the University
8.34 of Minnesota for the Minnesota technical
8.35 assistance program in partnership with the

9.1 Minnesota Rural Water Association to provide
 9.2 technical assistance to businesses to decrease
 9.3 industrial and commercial water use in
 9.4 communities at risk for inadequate
 9.5 groundwater supply or quality.

9.6 **Subd. 5. Technical**
 9.7 **Assistance, Outreach, and**
 9.8 **Environmental Education**

-0- 2,989,000

9.9 **(a) Statewide Environmental Education via**
 9.10 **Public Television Outdoor Series**

9.11 \$300,000 the second year is from the trust
 9.12 fund to the commissioner of natural resources
 9.13 for an agreement with Pioneer Public
 9.14 Television to produce approximately 25 new
 9.15 episodes of a statewide outdoor public
 9.16 television series designed to inspire
 9.17 Minnesotans to connect with the outdoors and
 9.18 restore and protect the environment.

9.19 **(b) Minnesota Freshwater Quest: Environmental**
 9.20 **Education on State Waterways**

9.21 \$500,000 the second year is from the trust
 9.22 fund to the commissioner of natural resources
 9.23 for an agreement with Wilderness Inquiry for
 9.24 approximately 10,000 underserved Minnesota
 9.25 youth to explore and improve local waterways
 9.26 using the place-based and hands-on
 9.27 "Minnesota Freshwater Quest" environmental
 9.28 education program.

9.29 **(c) Teach Science: Schools as STEM Living**
 9.30 **Laboratories**

9.31 \$368,000 the second year is from the trust
 9.32 fund to the commissioner of natural resources
 9.33 for an agreement with Climate Generation: A
 9.34 Will Steger Legacy to prepare students for the
 9.35 challenges and careers of the future by
 9.36 connecting new science standards, renewable

10.1 energy, and STEM opportunities in teacher
10.2 trainings, classroom demonstrations, and
10.3 program support across the state.

10.4 **(d) Mentoring Next Generation of Conservation**
10.5 **Professionals**

10.6 \$500,000 the second year is from the trust
10.7 fund to the commissioner of natural resources
10.8 for an agreement with Minnesota Valley
10.9 National Wildlife Refuge Trust, Inc., to
10.10 provide paid internships and apprenticeships
10.11 for diverse young people to learn about careers
10.12 in the conservation field from United States
10.13 Fish and Wildlife Service professionals while
10.14 working at the Minnesota Valley National
10.15 Wildlife Refuge and Wetland Management
10.16 District.

10.17 **(e) Jay C. Hormel Nature Center Supplemental**
10.18 **Teaching Staff**

10.19 \$225,000 the second year is from the trust
10.20 fund to the commissioner of natural resources
10.21 for an agreement with the city of Austin to
10.22 expand the Jay C. Hormel Nature Center
10.23 environmental education program beyond the
10.24 city of Austin to students in southeastern
10.25 Minnesota for three years.

10.26 **(f) 375 Underserved Youth Learn Minnesota**
10.27 **Ecosystems by Canoe**

10.28 \$375,000 the second year is from the trust
10.29 fund to the commissioner of natural resources
10.30 for an agreement with the YMCA of the
10.31 Greater Twin Cities to connect approximately
10.32 375 underserved and diverse teens from urban
10.33 areas and first-ring suburbs to environmental
10.34 sciences in the natural world through canoeing
10.35 and learning expeditions with experienced

11.1 outdoor education counselors. This
 11.2 appropriation is available until June 30, 2024,
 11.3 by which time the project must be completed
 11.4 and final products delivered.

11.5 **(g) YES! Students Take on Water Quality**
 11.6 **Challenge - Phase II**

11.7 \$199,000 the second year is from the trust
 11.8 fund to the commissioner of natural resources
 11.9 for an agreement with Prairie Woods
 11.10 Environmental Learning Center to mobilize
 11.11 local watershed stewardship efforts in
 11.12 approximately 20 communities through
 11.13 student-driven action projects.

11.14 **(h) Engaging Minnesotans with Phenology:**
 11.15 **Radio, Podcasts, Citizen Science**

11.16 \$198,000 the second year is from the trust
 11.17 fund to the commissioner of natural resources
 11.18 for an agreement with Northern Community
 11.19 Radio, Inc., in partnership with the Board of
 11.20 Regents of the University of Minnesota to
 11.21 build the next generation of conservationists
 11.22 using phenology, radio broadcasts, podcasts,
 11.23 and an online, interactive map interface to
 11.24 inspire teachers, students, and the public to
 11.25 get outside and experience nature.

11.26 **(i) Driving Conservation Behavior for Native**
 11.27 **Mussels and Water Quality**

11.28 \$191,000 the second year is from the trust
 11.29 fund to the Minnesota Zoological Garden to
 11.30 develop research-supported strategies to
 11.31 engage the public in specific conservation
 11.32 behaviors to improve water quality and native
 11.33 mussel health across the state.

11.34 **(j) Workshops and Outreach to Protect Raptors**
 11.35 **from Lead Poisoning**

12.1 \$133,000 the second year is from the trust
 12.2 fund to the Board of Regents of the University
 12.3 of Minnesota, Raptor Center, in cooperation
 12.4 with the Department of Natural Resources and
 12.5 other conservation partners, to provide hunters
 12.6 with outreach and workshops on alternatives
 12.7 to lead hunting ammunition, including copper
 12.8 ammunition as an alternative, and to promote
 12.9 voluntary selection of nontoxic ammunition
 12.10 to protect raptors and other wildlife in
 12.11 Minnesota from accidental lead poisoning
 12.12 caused by ingestion of ammunition fragments.

12.13 **Subd. 6. Aquatic and**
 12.14 **Terrestrial Invasive Species**

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10,425,000

12.15 **(a) Minnesota Invasive Terrestrial Plants and**
 12.16 **Pests Center (MITPPC) - Phase V**

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

12.30 **(b) Protect Community Forests by Managing**
 12.31 **Ash for Emerald Ash Borer**

12.32 \$3,500,000 the second year is from the trust
 12.33 fund to the commissioner of natural resources
 12.34 to reduce emerald ash borer by providing
 12.35 surveys, assessments, trainings, assistance,
 12.36 and grants for communities to manage emerald

13.1 ash borer, plant a diversity of trees, and engage
 13.2 citizens in community forestry activities. This
 13.3 appropriation is available until June 30, 2024,
 13.4 by which time the project must be completed
 13.5 and final products delivered.

13.6 **(c) Biological Control of White-Nose Syndrome**
 13.7 **in Bats - Phase III**

13.8 \$440,000 the second year is from the trust
 13.9 fund to the Board of Regents of the University
 13.10 of Minnesota to continue assessing and
 13.11 developing a biocontrol agent for white-nose
 13.12 syndrome in bats.

13.13 **(d) Applying New Tools and Techniques Against**
 13.14 **Invasive Carp**

13.15 \$478,000 the second year is from the trust
 13.16 fund to the commissioner of natural resources
 13.17 to apply new monitoring, outreach, and
 13.18 removal techniques and to continue work with
 13.19 commercial anglers to protect Minnesota
 13.20 waters from invasive carp.

13.21 **(e) Emerald Ash Borer and Black Ash:**
 13.22 **Maintaining Forests and Benefits**

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

14.1 **(f) Testing Effectiveness of Aquatic Invasive**
 14.2 **Species Removal Methods**

14.3 \$110,000 the second year is from the trust
 14.4 fund to the Board of Regents of the University
 14.5 of Minnesota for the Natural Resources
 14.6 Research Institute in Duluth to test how well
 14.7 boat-cleaning methods work, to provide the
 14.8 Department of Natural Resources with a risk
 14.9 assessment, and to provide recommendations
 14.10 for improving boat-launch cleaning stations
 14.11 to prevent the spread of aquatic invasive
 14.12 species.

14.13 **(g) Invasive *Didymosphenia* Threatens North**
 14.14 **Shore Streams**

14.15 \$197,000 the second year is from the trust
 14.16 fund to the Science Museum of Minnesota to
 14.17 evaluate the recent spread, origin, cause, and
 14.18 economic and ecological threat of didymo
 14.19 formation in North Shore streams and Lake
 14.20 Superior to inform management and outreach.

14.21 **Subd. 7. Air Quality and Renewable Energy**

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573,000

14.22 **(a) Storing Renewable Energy in Flow Battery**
 14.23 **for Grid Use**

14.24 \$250,000 the second year is from the trust
 14.25 fund to the Board of Regents of the University
 14.26 of Minnesota, on behalf of the Morris campus,
 14.27 to analyze the potential of adding a flow
 14.28 battery and solar energy generation to the
 14.29 University of Minnesota Morris's existing
 14.30 renewable-energy-intensive microgrid.

14.31 **(b) Eco-Friendly Plastics from Cloquet Pulp-Mill**
 14.32 **Lignin**

14.33 \$193,000 the second year is from the trust
 14.34 fund to the Board of Regents of the University
 14.35 of Minnesota to reduce environmental

15.1 pollution from plastics by creating eco-friendly
 15.2 replacements using lignin from the pulp mill
 15.3 in Cloquet, Minnesota. This appropriation is
 15.4 subject to Minnesota Statutes, section 116P.10.

15.5 **(c) Diverting Unsold Food from Landfills and**
 15.6 **Reducing Greenhouse Gases**

15.7 \$130,000 the second year is from the trust
 15.8 fund to the commissioner of natural resources
 15.9 for an agreement with Second Harvest
 15.10 Heartland to prevent food from going to
 15.11 landfills and reduce greenhouse gas emissions
 15.12 by helping businesses donate unsold prepared
 15.13 food to food shelves.

15.14 **Subd. 8. Methods to Protect or Restore Land,**
 15.15 **Water, and Habitat**

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4,219,000

15.16 **(a) Pollinator Central: Habitat Improvement**
 15.17 **with Citizen Monitoring**

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

15.31 **(b) Pollinator and Beneficial Insect Strategic**
 15.32 **Habitat Program**

15.33 \$750,000 the second year is from the trust
 15.34 fund to the Board of Water and Soil Resources
 15.35 for building a new initiative to strategically

16.1 restore and enhance approximately 1,000 acres
16.2 of diverse native habitat to benefit multiple
16.3 insects through grants, cost-share, and
16.4 outreach. Notwithstanding subdivision 14,
16.5 paragraph (e), restorations and enhancements
16.6 may take place on land enrolled in
16.7 Conservation Reserve Program and Reinvest
16.8 in Minnesota easement programs. This
16.9 appropriation is available until June 30, 2024,
16.10 by which time the project must be completed
16.11 and final products delivered.

16.12 **(c) Lignin-Coated Fertilizers for Phosphate**
16.13 **Control**

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

16.23 **(d) Implementing Hemp Crop Rotation to**
16.24 **Improve Water Quality**

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

17.1 **(e) Developing Cover-Crop Systems for Sugar**
17.2 **Beet Production**

17.3 \$300,000 the second year is from the trust
17.4 fund to the Board of Regents of the University
17.5 of Minnesota to develop agronomic guidelines
17.6 to support growers adopting cover-crop
17.7 practices in sugar beet production in
17.8 west-central and northwest Minnesota.

17.9 **(f) Native Eastern Larch Beetle Decimating**
17.10 **Minnesota's Tamarack Forests**

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

17.20 **(g) Habitat Associations of Mississippi**
17.21 **Bottomland Forest Marsh Birds**

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

17.32 **(h) Peatland Restoration in the Lost River State**
17.33 **Forest**

17.34 \$135,000 the second year is from the trust
17.35 fund to the commissioner of natural resources

18.1 for an agreement with the Roseau River
18.2 Watershed District to collect physical attribute
18.3 data from drained peatlands, incorporate the
18.4 data into a decision matrix, and generate a
18.5 report detailing peatland restoration potential
18.6 throughout the Lost River State Forest.

18.7 **(i) Prescribed Burning for Brushland-Dependent**
18.8 **Species - Phase II**

18.9 \$147,000 the second year is from the trust
18.10 fund to the Board of Regents of the University
18.11 of Minnesota to compare the effects of spring,
18.12 summer, and fall burns on birds and vegetation
18.13 and to provide guidelines for maintaining
18.14 healthy brushland habitat for a diversity of
18.15 wildlife and plant species.

18.16 **(j) Pollinator Habitat Creation Along Urban**
18.17 **Mississippi River**

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

18.29 **(k) Increase Golden Shiner Production to Protect**
18.30 **Aquatic Communities**

18.31 \$188,000 the second year is from the trust
18.32 fund to the Board of Regents of the University
18.33 of Minnesota for the Minnesota Sea Grant in
18.34 Duluth to identify and demonstrate best
18.35 methods for in-state production of golden

19.1 shiners to address angler demand while
 19.2 reducing the risk of introducing and spreading
 19.3 invasive species and to communicate findings
 19.4 through reports, manuals, and workshops.
 19.5 Production of shiners in this project must not
 19.6 take place in wetlands.

19.7 **(l) Restoring Turf to Native Pollinator Gardens**
 19.8 **Across Metro**

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

19.22 **Subd. 9. Land Acquisition,**
 19.23 **Habitat, and Recreation**

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29,901,000

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

19.25 \$3,000,000 the second year is from the trust
 19.26 fund to the commissioner of natural resources
 19.27 for the scientific and natural area (SNA)
 19.28 program to restore, improve, and enhance
 19.29 wildlife habitat on SNAs; increase public
 19.30 involvement and outreach; and strategically
 19.31 acquire high-quality lands that meet criteria
 19.32 for SNAs under Minnesota Statutes, section
 19.33 86A.05, from willing sellers.

19.34 **(b) Private Native Prairie Conservation through**
 19.35 **Native Prairie Bank**

20.1 \$2,000,000 the second year is from the trust
20.2 fund to the commissioner of natural resources
20.3 to provide technical stewardship assistance to
20.4 private landowners, restore and enhance native
20.5 prairie protected by easements in the native
20.6 prairie bank, and acquire easements for the
20.7 native prairie bank in accordance with
20.8 Minnesota Statutes, section 84.96, including
20.9 preparing initial baseline property assessments.
20.10 Up to \$60,000 of this appropriation may be
20.11 deposited in the natural resources conservation
20.12 easement stewardship account, created in
20.13 Minnesota Statutes, section 84.69, proportional
20.14 to the number of easement acres acquired.

20.15 **(c) Minnesota State Parks and State Trails**
20.16 **Inholdings**

20.17 \$3,500,000 the second year is from the trust
20.18 fund to the commissioner of natural resources
20.19 to acquire high-priority inholdings from
20.20 willing sellers within the legislatively
20.21 authorized boundaries of state parks,
20.22 recreation areas, and trails to protect
20.23 Minnesota's natural heritage, enhance outdoor
20.24 recreation, and promote tourism.

20.25 **(d) Grants for Local Parks, Trails, and Natural**
20.26 **Areas**

20.27 \$2,400,000 the second year is from the trust
20.28 fund to the commissioner of natural resources
20.29 to solicit, rank, and fund competitive matching
20.30 grants for local parks, trail connections, and
20.31 natural and scenic areas under Minnesota
20.32 Statutes, section 85.019. This appropriation is
20.33 for local nature-based recreation, connections
20.34 to regional and state natural areas, and
20.35 recreation facilities and may not be used for

21.1 athletic facilities such as sport fields, courts,
 21.2 and playgrounds.

21.3 **(e) Mississippi River Aquatic Habitat**
 21.4 **Restoration and Mussel Reintroduction**

21.5 \$1,800,000 the second year is from the trust
 21.6 fund. Of this amount, \$1,549,000 is to the
 21.7 commissioner of natural resources for an
 21.8 agreement with the Minneapolis Park and
 21.9 Recreation Board and \$251,000 is to the
 21.10 commissioner of natural resources to restore
 21.11 lost habitat and reintroduce mussels in the
 21.12 Mississippi River above St. Anthony Falls.
 21.13 This work includes creating habitat and
 21.14 species restoration plans, implementing the
 21.15 restoration plans, and monitoring effectiveness
 21.16 of the restoration for multiple years after
 21.17 implementation. This appropriation is
 21.18 available until June 30, 2026, by which time
 21.19 the project must be completed and final
 21.20 products delivered.

21.21 **(f) Minnesota Hunter Walking Trails: Public**
 21.22 **Land Recreational Access**

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

21.31 **(g) Turning Back to Rivers: Environmental and**
 21.32 **Recreational Protection**

21.33 \$1,000,000 the second year is from the trust
 21.34 fund to the commissioner of natural resources
 21.35 for an agreement with The Trust for Public

- 22.1 Land to help local communities acquire
22.2 priority land along the Mississippi, St. Croix,
22.3 and Minnesota Rivers and their tributaries to
22.4 protect natural resources, provide buffers for
22.5 flooding, and improve access for recreation.
- 22.6 **(h) Metropolitan Regional Parks System Land**
22.7 **Acquisition - Phase VI**
- 22.8 \$1,000,000 the second year is from the trust
22.9 fund to the Metropolitan Council for grants to
22.10 acquire land within the approved park
22.11 boundaries of the metropolitan regional park
22.12 system. This appropriation must be matched
22.13 by at least 40 percent of nonstate money.
- 22.14 **(i) Minnesota State Trails Development**
- 22.15 \$994,000 the second year is from the trust
22.16 fund to the commissioner of natural resources
22.17 to expand high-priority recreational
22.18 opportunities on Minnesota's state trails by
22.19 rehabilitating, improving, and enhancing
22.20 existing state trails. The high-priority trail
22.21 bridges to be rehabilitated or replaced under
22.22 this appropriation include, but are not limited
22.23 to, those on the Taconite, Great River Ridge,
22.24 and C. J. Ramstad/Northshore State Trails.
- 22.25 **(j) Elm Creek Restoration - Phase IV**
- 22.26 \$500,000 the second year is from the trust
22.27 fund to the commissioner of natural resources
22.28 for an agreement with the city of Champlin to
22.29 conduct habitat and stream restoration of
22.30 approximately 0.7 miles of Elm Creek
22.31 shoreline above Mill Pond Lake and through
22.32 the Elm Creek Protection Area.
- 22.33 **(k) Superior Hiking Trail as Environmental**
22.34 **Showcase**

23.1 \$450,000 the second year is from the trust
23.2 fund to the commissioner of natural resources
23.3 for an agreement with the Superior Hiking
23.4 Trail Association to rebuild damaged and
23.5 dangerous segments and create a new trail
23.6 segment of the Superior Hiking Trail to
23.7 minimize environmental impacts, make the
23.8 trail safer for users, and make the trail more
23.9 resilient for future use and conditions.

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

23.11 \$2,800,000 the second year is from the trust
23.12 fund to the commissioner of natural resources
23.13 for an agreement with the Friends of the Lock
23.14 and Dam in partnership with the city of
23.15 Minneapolis to design and install green
23.16 infrastructure, public access, and habitat
23.17 restorations on riverfront land at Upper St.
23.18 Anthony Falls for water protection, recreation,
23.19 and environmental education purposes. Of this
23.20 amount, up to \$600,000 is for planning,
23.21 design, and engagement. No funds from this
23.22 appropriation may be spent until Congress
23.23 directs the U.S. Army Corps of Engineers to
23.24 convey an interest in the Upper St. Anthony
23.25 Falls property to the city of Minneapolis for
23.26 use as a visitor center. After this congressional
23.27 act is signed into law, up to \$100,000 of the
23.28 planning, design, and engagement funds may
23.29 be spent. The remaining planning, design, and
23.30 engagement funds may be spent after a binding
23.31 agreement has been secured to acquire the land
23.32 or access and use rights to the land for at least
23.33 25 years. Any remaining balance of the
23.34 appropriation may be spent on installing
23.35 enhancements after the Upper St. Anthony

- 24.1 Falls land has been acquired by the city of
24.2 Minneapolis.
- 24.3 **(m) Whiskey Creek and Mississippi River Water**
24.4 **Quality, Habitat, and Recreation**
- 24.5 \$500,000 the second year is from the trust
24.6 fund to the commissioner of natural resources
24.7 for an agreement with the Mississippi
24.8 Headwaters Board to acquire and transfer
24.9 approximately 13 acres of land to the city of
24.10 Baxter for future construction of water quality,
24.11 habitat, and recreational improvements to
24.12 protect the Mississippi River.
- 24.13 **(n) Perham to Pelican Rapids Regional Trail**
24.14 **(West Segment)**
- 24.15 \$2,600,000 the second year is from the trust
24.16 fund to the commissioner of natural resources
24.17 for an agreement with Otter Tail County to
24.18 construct the west segment of the 32-mile
24.19 Perham to Pelican Rapids Regional Trail that
24.20 will connect the city of Pelican Rapids to
24.21 Maplewood State Park.
- 24.22 **(o) Crow Wing County Community Natural**
24.23 **Area Acquisition**
- 24.24 \$400,000 the second year is from the trust
24.25 fund to the commissioner of natural resources
24.26 for an agreement with Crow Wing County to
24.27 acquire approximately 65 acres of land
24.28 adjacent to the historic fire tower property to
24.29 allow for diverse recreational opportunities
24.30 while protecting wildlife habitat and
24.31 preventing forest fragmentation. Any revenue
24.32 generated from selling products or assets
24.33 developed or acquired with this appropriation
24.34 must be repaid to the trust fund unless a plan
24.35 is approved for reinvestment of income in the

25.1 project as provided under Minnesota Statutes,
25.2 section 116P.10.

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

25.4 \$1,200,000 the second year is from the trust
25.5 fund to the commissioner of natural resources
25.6 for an agreement with the Rocori Trail
25.7 Construction Board to design and construct
25.8 Phase III of the Rocori Trail along the old
25.9 Burlington Northern Santa Fe rail corridor
25.10 between the cities of Cold Spring and
25.11 Rockville.

25.12 **(q) Mesabi Trail: New Trail and Additional**
25.13 **Funding**

25.14 \$1,000,000 the second year is from the trust
25.15 fund to the commissioner of natural resources
25.16 for an agreement with the St. Louis and Lake
25.17 Counties Regional Railroad Authority for
25.18 constructing the Mesabi Trail beginning at the
25.19 intersection of County Road 20 and Minnesota
25.20 State Highway 135 and terminating at 1st
25.21 Avenue North and 1st Street North in the city
25.22 of Biwabik in St. Louis County. This
25.23 appropriation may not be spent until all
25.24 Mesabi Trail projects funded with trust fund
25.25 appropriations before fiscal year 2020, with
25.26 the exception of the project funded under Laws
25.27 2017, chapter 96, section 2, subdivision 9,
25.28 paragraph (g), are completed.

25.29 **(r) Ranier Safe Harbor and Transient Dock on**
25.30 **Rainy Lake**

25.31 \$762,000 the second year is from the trust
25.32 fund to the commissioner of natural resources
25.33 for an agreement with the city of Ranier to
25.34 construct a dock that accommodates boats 26
25.35 feet or longer with the goal of increasing

26.1 public access for boat recreation on Rainy
26.2 Lake. Any revenue generated from selling
26.3 products or assets developed or acquired with
26.4 this appropriation must be repaid to the trust
26.5 fund unless a plan is approved for
26.6 reinvestment of income in the project as
26.7 provided under Minnesota Statutes, section
26.8 116P.10.

26.9 **(s) Crane Lake Voyageurs National Park**
26.10 **Campground and Visitor Center**

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

26.25 **(t) Chippewa County Acquisition, Recreation,**
26.26 **and Education**

26.27 \$160,000 the second year is from the trust
26.28 fund to the commissioner of natural resources
26.29 for an agreement with Chippewa County to
26.30 acquire wetland and floodplain forest and
26.31 abandoned gravel pits along the Minnesota
26.32 River to provide water filtration, education,
26.33 and recreational opportunities.

26.34 **(u) Sportsmen's Training and Developmental**
26.35 **Learning Center**

27.1 \$85,000 the second year is from the trust fund
 27.2 to the commissioner of natural resources for
 27.3 an agreement with the Minnesota Forest Zone
 27.4 Trappers Association to complete a site
 27.5 evaluation and master plan for the Sportsmen's
 27.6 Training and Developmental Learning Center
 27.7 near Hibbing. Any revenue generated from
 27.8 selling products or assets developed or
 27.9 acquired with this appropriation must be
 27.10 repaid to the trust fund unless a plan is
 27.11 approved for reinvestment of income in the
 27.12 project as provided under Minnesota Statutes,
 27.13 section 116P.10.

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

27.15 \$350,000 the second year is from the trust
 27.16 fund to the commissioner of natural resources
 27.17 for a grant to the city of Babbitt to expand the
 27.18 Birch Lake Recreation Area by adding a new
 27.19 campground to include new campsites,
 27.20 restrooms, and other facilities. This
 27.21 appropriation is available until June 30, 2024.

27.22 **Subd. 10. Emerging Issues**

27.23 **Account; Wastewater**

27.24 **Renewable Energy**

27.25 **Demonstration Grants**

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1,095,000

27.26 \$1,095,000 the second year is from the trust
 27.27 fund to an emerging issues account authorized
 27.28 in Minnesota Statutes, section 116P.08,
 27.29 subdivision 4, paragraph (d). Money
 27.30 appropriated under this subdivision must be
 27.31 used for grants administered by the Public
 27.32 Facilities Authority for renewable energy
 27.33 demonstration projects at wastewater treatment
 27.34 facilities.

28.1 **Subd. 11. Contract**

28.2 **Agreement Reimbursement** -0- 135,000

28.3 \$135,000 the second year is from the trust

28.4 fund to the commissioner of natural resources,

28.5 at the direction of the Legislative-Citizen

28.6 Commission on Minnesota Resources, for

28.7 expenses incurred for preparing and

28.8 administering contracts for the agreements

28.9 specified in this section. The commissioner

28.10 must provide documentation to the

28.11 Legislative-Citizen Commission on Minnesota

28.12 Resources on the expenditure of these funds.

28.13 **Subd. 12. Availability of Appropriations**

28.14 Money appropriated in this section may not

28.15 be spent on activities unless they are directly

28.16 related to and necessary for a specific

28.17 appropriation and are specified in the work

28.18 plan approved by the Legislative-Citizen

28.19 Commission on Minnesota Resources. Money

28.20 appropriated in this section must not be spent

28.21 on indirect costs or other institutional overhead

28.22 charges that are not directly related to and

28.23 necessary for a specific appropriation. Costs

28.24 that are directly related to and necessary for

28.25 an appropriation, including financial services,

28.26 human resources, information services, rent,

28.27 and utilities, are eligible only if the costs can

28.28 be clearly justified and individually

28.29 documented specific to the appropriation's

28.30 purpose and would not be generated by the

28.31 recipient but for receipt of the appropriation.

28.32 No broad allocations for costs in either dollars

28.33 or percentages are allowed. Unless otherwise

28.34 provided, the amounts in this section are

28.35 available until June 30, 2023, when projects

29.1 must be completed and final products
29.2 delivered. For acquisition of real property, the
29.3 appropriations in this section are available for
29.4 an additional fiscal year if a binding contract
29.5 for acquisition of the real property is entered
29.6 into before the expiration date of the
29.7 appropriation. If a project receives a federal
29.8 grant, the time period of the appropriation is
29.9 extended to equal the federal grant period.

29.10 **Subd. 13. Data Availability Requirements**

29.11 Data collected by the projects funded under
29.12 this section must conform to guidelines and
29.13 standards adopted by MN.IT Services. Spatial
29.14 data must also conform to additional
29.15 guidelines and standards designed to support
29.16 data coordination and distribution that have
29.17 been published by the Minnesota Geospatial
29.18 Information Office. Descriptions of spatial
29.19 data must be prepared as specified in the state's
29.20 geographic metadata guideline and must be
29.21 submitted to the Minnesota Geospatial
29.22 Information Office. All data must be
29.23 accessible and free to the public unless made
29.24 private under the Data Practices Act,
29.25 Minnesota Statutes, chapter 13. To the extent
29.26 practicable, summary data and results of
29.27 projects funded under this section should be
29.28 readily accessible on the Internet and
29.29 identified as having received funding from the
29.30 environment and natural resources trust fund.

29.31 **Subd. 14. Project Requirements**

29.32 (a) As a condition of accepting an
29.33 appropriation under this section, an agency or
29.34 entity receiving an appropriation or a party to
29.35 an agreement from an appropriation must

30.1 comply with paragraphs (b) to (l) and
30.2 Minnesota Statutes, chapter 116P, and must
30.3 submit a work plan and annual or semiannual
30.4 progress reports in the form determined by the
30.5 Legislative-Citizen Commission on Minnesota
30.6 Resources for any project funded in whole or
30.7 in part with funds from the appropriation.
30.8 Modifications to the approved work plan and
30.9 budget expenditures must be made through
30.10 the amendment process established by the
30.11 Legislative-Citizen Commission on Minnesota
30.12 Resources.

30.13 (b) A recipient of money appropriated in this
30.14 section that conducts a restoration using funds
30.15 appropriated in this section must use native
30.16 plant species according to the Board of Water
30.17 and Soil Resources' native vegetation
30.18 establishment and enhancement guidelines
30.19 and include an appropriate diversity of native
30.20 species selected to provide habitat for
30.21 pollinators throughout the growing season as
30.22 required under Minnesota Statutes, section
30.23 84.973.

30.24 (c) For all restorations conducted with money
30.25 appropriated under this section, a recipient
30.26 must prepare an ecological restoration and
30.27 management plan that, to the degree
30.28 practicable, is consistent with the
30.29 highest-quality conservation and ecological
30.30 goals for the restoration site. Consideration
30.31 should be given to soil, geology, topography,
30.32 and other relevant factors that would provide
30.33 the best chance for long-term success and
30.34 durability of the restoration project. The plan
30.35 must include the proposed timetable for

- 31.1 implementing the restoration, including site
31.2 preparation, establishment of diverse plant
31.3 species, maintenance, and additional
31.4 enhancement to establish the restoration;
31.5 identify long-term maintenance and
31.6 management needs of the restoration and how
31.7 the maintenance, management, and
31.8 enhancement will be financed; and take
31.9 advantage of the best-available science and
31.10 include innovative techniques to achieve the
31.11 best restoration.
- 31.12 (d) An entity receiving an appropriation in this
31.13 section for restoration activities must provide
31.14 an initial restoration evaluation at the
31.15 completion of the appropriation and an
31.16 evaluation three years after the completion of
31.17 the expenditure. Restorations must be
31.18 evaluated relative to the stated goals and
31.19 standards in the restoration plan, current
31.20 science, and, when applicable, the Board of
31.21 Water and Soil Resources' native vegetation
31.22 establishment and enhancement guidelines.
31.23 The evaluation must determine whether the
31.24 restorations are meeting planned goals,
31.25 identify any problems with implementing the
31.26 restorations, and, if necessary, give
31.27 recommendations on improving restorations.
31.28 The evaluation must be focused on improving
31.29 future restorations.
- 31.30 (e) All restoration and enhancement projects
31.31 funded with money appropriated in this section
31.32 must be on land permanently protected by a
31.33 conservation easement or public ownership.
- 31.34 (f) A recipient of money from an appropriation
31.35 under this section must give consideration to

- 32.1 contracting with Conservation Corps
32.2 Minnesota for contract restoration and
32.3 enhancement services.
- 32.4 (g) All conservation easements acquired with
32.5 money appropriated under this section must:
- 32.6 (1) be permanent;
- 32.7 (2) specify the parties to an easement in the
32.8 easement;
- 32.9 (3) specify all of the provisions of an
32.10 agreement that are permanent;
- 32.11 (4) be sent to the Legislative-Citizen
32.12 Commission on Minnesota Resources in an
32.13 electronic format at least ten business days
32.14 before closing;
- 32.15 (5) include a long-term monitoring and
32.16 enforcement plan and funding for monitoring
32.17 and enforcing the easement agreement; and
- 32.18 (6) include requirements in the easement
32.19 document to protect the quantity and quality
32.20 of groundwater and surface water through
32.21 specific activities such as keeping water on
32.22 the landscape, reducing nutrient and
32.23 contaminant loading, and not permitting
32.24 artificial hydrological modifications.
- 32.25 (h) For any acquisition of lands or interest in
32.26 lands, a recipient of money appropriated under
32.27 this section must not agree to pay more than
32.28 100 percent of the appraised value for a parcel
32.29 of land using this money to complete the
32.30 purchase, in part or in whole, except that up
32.31 to ten percent above the appraised value may
32.32 be allowed to complete the purchase, in part
32.33 or in whole, using this money if permission is

33.1 received in advance of the purchase from the
33.2 Legislative-Citizen Commission on Minnesota
33.3 Resources.

33.4 (i) For any acquisition of land or interest in
33.5 land, a recipient of money appropriated under
33.6 this section must give priority to high-quality
33.7 natural resources or conservation lands that
33.8 provide natural buffers to water resources.

33.9 (j) For new lands acquired with money
33.10 appropriated under this section, a recipient
33.11 must prepare an ecological restoration and
33.12 management plan in compliance with
33.13 paragraph (c), including sufficient funding for
33.14 implementation unless the work plan addresses
33.15 why a portion of the money is not necessary
33.16 to achieve a high-quality restoration.

33.17 (k) To ensure public accountability for using
33.18 public funds, a recipient of money
33.19 appropriated under this section must, within
33.20 60 days of the transaction, provide to the
33.21 Legislative-Citizen Commission on Minnesota
33.22 Resources documentation of the selection
33.23 process used to identify parcels acquired and
33.24 provide documentation of all related
33.25 transaction costs, including but not limited to
33.26 appraisals, legal fees, recording fees,
33.27 commissions, other similar costs, and
33.28 donations. This information must be provided
33.29 for all parties involved in the transaction. The
33.30 recipient must also report to the
33.31 Legislative-Citizen Commission on Minnesota
33.32 Resources any difference between the
33.33 acquisition amount paid to the seller and the
33.34 state-certified or state-reviewed appraisal, if

34.1 a state-certified or state-reviewed appraisal
34.2 was conducted.

34.3 (l) A recipient of an appropriation from the
34.4 trust fund under this section must acknowledge
34.5 financial support from the environment and
34.6 natural resources trust fund in project
34.7 publications, signage, and other public
34.8 communications and outreach related to work
34.9 completed using the appropriation.

34.10 Acknowledgment may occur, as appropriate,
34.11 through use of the trust fund logo or inclusion
34.12 of language attributing support from the trust
34.13 fund. Each direct recipient of money
34.14 appropriated in this section, as well as each
34.15 recipient of a grant awarded pursuant to this
34.16 section, must satisfy all reporting and other
34.17 requirements incumbent upon constitutionally
34.18 dedicated funding recipients as provided in
34.19 Minnesota Statutes, section 3.303, subdivision
34.20 10, and chapter 116P.

34.21 **Subd. 15. Payment Conditions and**
34.22 **Capital-Equipment Expenditures**

34.23 (a) All agreements, grants, or contracts
34.24 referred to in this section must be administered
34.25 on a reimbursement basis unless otherwise
34.26 provided in this section. Notwithstanding
34.27 Minnesota Statutes, section 16A.41,
34.28 expenditures made on or after July 1, 2020,
34.29 or the date the work plan is approved,
34.30 whichever is later, are eligible for
34.31 reimbursement unless otherwise provided in
34.32 this section. Periodic payments must be made
34.33 upon receiving documentation that the
34.34 deliverable items articulated in the approved
34.35 work plan have been achieved, including

35.1 partial achievements as evidenced by approved
35.2 progress reports. Reasonable amounts may be
35.3 advanced to projects to accommodate
35.4 cash-flow needs or match federal money. The
35.5 advances must be approved as part of the work
35.6 plan. No expenditures for capital equipment
35.7 are allowed unless expressly authorized in the
35.8 project work plan.

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

35.11 **Subd. 16. Purchasing Recycled and Recyclable**
35.12 **Materials**

35.13 A political subdivision, public or private
35.14 corporation, or other entity that receives an
35.15 appropriation under this section must use the
35.16 appropriation in compliance with Minnesota
35.17 Statutes, section 16C.0725, regarding
35.18 purchasing recycled, repairable, and durable
35.19 materials and Minnesota Statutes, section
35.20 16C.073, regarding purchasing and using
35.21 paper stock and printing.

35.22 **Subd. 17. Energy Conservation and Sustainable**
35.23 **Building Guidelines**

35.24 A recipient to whom an appropriation is made
35.25 under this section for a capital improvement
35.26 project must ensure that the project complies
35.27 with the applicable energy conservation and
35.28 sustainable building guidelines and standards
35.29 contained in law, including Minnesota
35.30 Statutes, sections 16B.325, 216C.19, and
35.31 216C.20, and rules adopted under those
35.32 sections. The recipient may use the energy
35.33 planning, advocacy, and State Energy Office
35.34 units of the Department of Commerce to
35.35 obtain information and technical assistance

36.1 on energy conservation and alternative-energy
36.2 development relating to planning and
36.3 constructing the capital improvement project.

36.4 **Subd. 18. Accessibility**

36.5 Structural and nonstructural facilities must
36.6 meet the design standards in the Americans
36.7 with Disabilities Act (ADA) accessibility
36.8 guidelines.

36.9 **Subd. 19. Carryforward; Extension**

36.10 (a) The availability of the appropriations for
36.11 the following projects is extended to June 30,
36.12 2021:

36.13 (1) Laws 2017, chapter 96, section 2,
36.14 subdivision 7, paragraph (e), Geotargeted
36.15 Distributed Clean Energy Initiative;

36.16 (2) Laws 2017, chapter 96, section 2,
36.17 subdivision 8, paragraph (a), Optimizing the
36.18 Nutrition of Roadside Plants for Pollinators;

36.19 (3) Laws 2017, chapter 96, section 2,
36.20 subdivision 8, paragraph (f), Prescribed-Fire
36.21 Management for Roadside Prairies;

36.22 (4) Laws 2017, chapter 96, section 2,
36.23 subdivision 8, paragraph (h), Mississippi and
36.24 Vermillion Rivers Restoration of Prairie,
36.25 Savanna, and Forest Habitat - Phase X;

36.26 (5) Laws 2017, chapter 96, section 2,
36.27 subdivision 9, paragraph (e), Native Prairie
36.28 Stewardship and Prairie Bank Easement
36.29 Acquisition, as amended by Laws 2019, First
36.30 Special Session chapter 4, article 2, section 4;

36.31 (6) Laws 2018, chapter 214, article 4, section
36.32 2, subdivision 5, paragraph (j), Expanding the

- 37.1 State's Reuse Economy to Conserve Natural
37.2 Resources; and
37.3 (7) Laws 2018, chapter 214, article 4, section
37.4 2, subdivision 6, paragraph (b), Palmer
37.5 Amaranth Detection and Eradication
37.6 Continuation.
- 37.7 (b) The availability of the appropriations for
37.8 the following projects is extended to June 30,
37.9 2022:
- 37.10 (1) Laws 2017, chapter 96, section 2,
37.11 subdivision 8, paragraph (k), Conservation
37.12 Reserve Enhancement Program (CREP)
37.13 Outreach and Implementation; and
- 37.14 (2) Laws 2017, chapter 96, section 2,
37.15 subdivision 9, paragraph (h), Tower Trailhead
37.16 Boat Landing and Habitat Improvement -
37.17 Phase II.
- 37.18 (c) The availability of the appropriations for
37.19 the following projects is extended to June 30,
37.20 2023:
- 37.21 (1) Laws 2018, chapter 214, article 4, section
37.22 2, subdivision 10, Emerging Issues Account;
37.23 and
- 37.24 (2) Laws 2019, First Special Session chapter
37.25 4, article 2, section 2, subdivision 8, paragraph
37.26 (f), Lawns to Legumes.
- 37.27 (d) The availability of the appropriation under
37.28 Laws 2018, chapter 214, article 4, section 2,
37.29 subdivision 4, paragraph (l), Lake Agnes
37.30 Treatment, is extended to June 30, 2024.
- 37.31 Subd. 20. **Transfers**
- 37.32 The appropriation in Laws 2019, First Special
37.33 Session chapter 4, article 2, section 2,

38.1 subdivision 8, paragraph (c), Sauk River Dam
38.2 Removal and Rock Rapids Replacement, in
38.3 the amount of \$2,768,000, no longer needed
38.4 for its original purpose is available until June
38.5 30, 2023, and transferred as follows:

38.6 (1) \$849,000 is transferred to the Science
38.7 Museum of Minnesota to determine how,
38.8 when, and why lakes in pristine areas of the
38.9 state without obvious nutrient loading are
38.10 experiencing algal blooms;

38.11 (2) \$699,000 is transferred to the Board of
38.12 Regents of the University of Minnesota to
38.13 evaluate the ability of the virus that causes
38.14 COVID-19 and other potentially infectious
38.15 organisms to travel through wastewater
38.16 systems, including septic systems, to drinking
38.17 water sources;

38.18 (3) \$320,000 is transferred to the
38.19 commissioner of natural resources to reduce
38.20 emerald ash borer by providing surveys,
38.21 assessments, trainings, assistance, and grants
38.22 for communities to manage emerald ash borer,
38.23 plant a diversity of trees, and engage citizens
38.24 in community forestry activities; and

38.25 (4) \$900,000 is transferred to the Board of
38.26 Water and Soil Resources for demonstration
38.27 projects that provide grants or payments to
38.28 plant residential lawns with native vegetation
38.29 and pollinator-friendly forbs and legumes to
38.30 protect a diversity of pollinators. The board
38.31 must establish criteria for grants or payments
38.32 awarded under this clause. Grants or payments
38.33 awarded under this clause may be made for
38.34 up to 75 percent of the costs of the project,
38.35 except that in areas identified by the United

39.1 States Fish and Wildlife Service as areas
 39.2 where there is a high potential for rusty
 39.3 patched bumble bees to be present, grants may
 39.4 be awarded for up to 90 percent of the costs
 39.5 of the project.

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

39.8 **Subd. 9. Land Acquisition,**
 39.9 **Habitat, and Recreation**

999,000

13,533,000

-0-

39.10 **(a) Metropolitan Regional Parks System Land**
 39.11 **Acquisition**

39.12 \$1,500,000 the first year is from the trust fund
 39.13 to the Metropolitan Council for grants to
 39.14 acquire approximately 70 acres of land within
 39.15 the approved park boundaries of the
 39.16 metropolitan regional park system. This
 39.17 appropriation may not be used to purchase
 39.18 habitable residential structures. A list of
 39.19 proposed fee title acquisitions must be
 39.20 provided as part of the required work plan.
 39.21 This appropriation must be matched by at least
 39.22 40 percent of nonstate money that must be
 39.23 committed by December 31, 2017. This
 39.24 appropriation is available until June 30, 2020,
 39.25 by which time the project must be completed
 39.26 and final products delivered.

39.27 **(b) Scientific and Natural Areas Acquisition and**
 39.28 **Restoration, Citizen Science, and Engagement**

39.29 \$2,500,000 the first year is from the trust fund
 39.30 to the commissioner of natural resources to
 39.31 acquire land with high-quality native plant
 39.32 communities and rare features to be
 39.33 established as scientific and natural areas as
 39.34 provided in Minnesota Statutes, section
 39.35 86A.05, subdivision 5, restore and improve

40.1 scientific and natural areas, and provide
40.2 technical assistance and outreach, including
40.3 site steward events. At least one-third of the
40.4 appropriation must be spent on restoration
40.5 activities. A list of proposed acquisitions and
40.6 restorations must be provided as part of the
40.7 required work plan. Land acquired with this
40.8 appropriation must be sufficiently improved
40.9 to meet at least minimum management
40.10 standards, as determined by the commissioner
40.11 of natural resources. When feasible,
40.12 consideration must be given to accommodate
40.13 trails on lands acquired. This appropriation is
40.14 available until June 30, 2020, by which time
40.15 the project must be completed and final
40.16 products delivered.

40.17 **(c) Minnesota State Parks and State Trails Land**
40.18 **Acquisition**

40.19 \$1,500,000 the first year is from the trust fund
40.20 to the commissioner of natural resources to
40.21 acquire approximately 373 acres from willing
40.22 sellers for authorized state trails and critical
40.23 parcels within the statutory boundaries of state
40.24 parks. State park land acquired with this
40.25 appropriation must be sufficiently improved
40.26 to meet at least minimum management
40.27 standards, as determined by the commissioner
40.28 of natural resources. A list of proposed
40.29 acquisitions must be provided as part of the
40.30 required work plan. This appropriation is
40.31 available until June 30, 2020, by which time
40.32 the project must be completed and final
40.33 products delivered.

40.34 **(d) Minnesota State Trails Acquisition,**
40.35 **Development, and Enhancement**

41.1 \$999,000 in fiscal year 2017 and \$39,000 the
41.2 first year are from the trust fund to the
41.3 commissioner of natural resources for state
41.4 trail acquisition, development, and
41.5 enhancement in southern Minnesota. A
41.6 proposed list of trail projects on authorized
41.7 state trails must be provided as part of the
41.8 required work plan. This appropriation is
41.9 available until June 30, 2020, by which time
41.10 the project must be completed and final
41.11 products delivered.

41.12 **(e) Native Prairie Stewardship and Prairie Bank**
41.13 **Easement Acquisition**

41.14 \$2,675,000 the first year is from the trust fund
41.15 to the commissioner of natural resources to
41.16 acquire native prairie bank easements in
41.17 accordance with Minnesota Statutes, section
41.18 84.96, on approximately 250 acres, prepare
41.19 baseline property assessments, restore and
41.20 enhance native prairie sites, and provide
41.21 technical assistance to landowners. Of this
41.22 amount, up to \$132,000 may be deposited in
41.23 a conservation easement stewardship account.
41.24 Deposits into the conservation easement
41.25 stewardship account must be made upon
41.26 closing on conservation easements or at a time
41.27 otherwise approved in the work plan. A list of
41.28 proposed easement acquisitions must be
41.29 provided as part of the required work plan.
41.30 This appropriation is available until June 30,
41.31 2020, by which time the project must be
41.32 completed and final products delivered.

41.33 **(f) Leech Lake Acquisition**

41.34 \$1,500,000 the first year is from the trust fund
41.35 to the commissioner of natural resources for

42.1 an agreement with the Leech Lake Band of
42.2 Ojibwe to acquire approximately 45 acres,
42.3 including 0.67 miles of shoreline of
42.4 high-quality aquatic and wildlife habitat at the
42.5 historic meeting place between Henry
42.6 Schoolcraft and the Anishinabe people. The
42.7 land must be open to public use including
42.8 hunting and fishing. The band must provide a
42.9 commitment that land will not be put in a
42.10 federal trust through the Bureau of Indian
42.11 Affairs.

42.12 **(g) Mesabi Trail Development**

42.13 \$2,269,000 the first year is from the trust fund
42.14 to the commissioner of natural resources for
42.15 an agreement with the St. Louis and Lake
42.16 Counties Regional Railroad Authority for
42.17 engineering and constructing segments of the
42.18 Mesabi Trail. This appropriation is available
42.19 until June 30, 2020, by which time the project
42.20 must be completed and final products
42.21 delivered.

42.22 **(h) Tower Trailhead Boat Landing and Habitat
42.23 Improvement - Phase II**

42.24 \$600,000 the first year is from the trust fund
42.25 to the commissioner of natural resources for
42.26 an agreement with the city of Tower to
42.27 construct a trailhead, trail connection to the
42.28 Mesabi Trail, and boat landing and to restore
42.29 vegetative habitat on city-owned property.
42.30 Plant and seed materials must follow the Board
42.31 of Water and Soil Resources' native vegetation
42.32 establishment and enhancement guidelines.
42.33 This appropriation is available until June 30,
42.34 2020, by which time the project must be
42.35 completed and final products delivered.

43.1 **(i) Land Acquisition for Voyageurs National**
43.2 **Park Crane Lake Visitors Center**

43.3 \$950,000 the first year is from the trust fund
43.4 to the commissioner of natural resources for
43.5 an agreement with the town of Crane Lake, in
43.6 partnership with Voyageurs National Park and
43.7 the Department of Natural Resources, to
43.8 acquire approximately 30 acres to be used for
43.9 a visitor center and campground. Income
43.10 generated by the campground may be used to
43.11 support the facility.

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

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

43.14 **Subd. 6. Aquatic and Terrestrial Invasive**
43.15 **Species**

-0- 5,760,000

43.16 **(a) Minnesota Invasive Terrestrial Plants and**
43.17 **Pests Center - Phase 4**

43.18 \$3,500,000 the second year is from the trust
43.19 fund to the Board of Regents of the University
43.20 of Minnesota for high-priority research at the
43.21 Invasive Terrestrial Plants and Pests Center
43.22 to protect Minnesota's natural and agricultural
43.23 resources from terrestrial invasive plants,
43.24 pathogens, and pests as identified through the
43.25 center's strategic prioritization process. This
43.26 appropriation is available until June 30, 2023,
43.27 by which time the project must be completed
43.28 and final products delivered.

43.29 **(b) Palmer Amaranth Detection and Eradication**
43.30 **Continuation**

43.31 \$431,000 the second year is from the trust
43.32 fund to the commissioner of agriculture to
43.33 continue to monitor, ground survey, and
43.34 control Palmer amaranth and other prohibited
43.35 eradicate species of noxious weeds primarily

44.1 in ~~conservation plantings~~ natural areas and to
44.2 develop and implement aerial-survey methods
44.3 to prevent infestation and protect prairies,
44.4 other natural areas, and agricultural crops.

44.5 **(c) Evaluate Control Methods for Invasive**
44.6 **Hybrid Cattails**

44.7 \$131,000 the second year is from the trust
44.8 fund to the commissioner of natural resources
44.9 for an agreement with Voyageurs National
44.10 Park to evaluate the effectiveness of
44.11 mechanical harvesting and managing muskrat
44.12 populations to remove exotic hybrid cattails
44.13 and restore fish and wildlife habitat in
44.14 Minnesota wetlands. This appropriation is
44.15 available until June 30, 2021, by which time
44.16 the project must be completed and final
44.17 products delivered.

44.18 **(d) Developing RNA Interference to Control**
44.19 **Zebra Mussels**

44.20 \$500,000 the second year is from the trust
44.21 fund to the commissioner of natural resources
44.22 for an agreement with the United States
44.23 Geological Survey to develop a genetic control
44.24 tool that exploits the natural process of RNA
44.25 silencing to specifically target and effectively
44.26 control zebra mussels without affecting other
44.27 species or causing other nontarget effects. This
44.28 appropriation is available until June 30, 2021,
44.29 by which time the project must be completed
44.30 and final products delivered.

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

44.33 \$998,000 the second year is from the trust
44.34 fund to the Board of Regents of the University
44.35 of Minnesota in cooperation with the United

45.1 States Army Corps of Engineers and the
45.2 United States Fish and Wildlife Service to
45.3 install, evaluate, and optimize a system in
45.4 Mississippi River locks and dams to deter
45.5 passage of invasive carp without negatively
45.6 impacting native fish and to evaluate the
45.7 ability of predator fish in the pools above the
45.8 locks and dams to consume young carp. The
45.9 project must conduct a cost comparison of
45.10 equipment purchase versus lease options and
45.11 choose the most effective option. This
45.12 appropriation is available until June 30, 2021,
45.13 by which time the project must be completed
45.14 and final products delivered.

45.15 **(f) Determining Risk of Toxic Alga in Minnesota**
45.16 **Lakes**

45.17 \$200,000 the second year is from the trust
45.18 fund to the Science Museum of Minnesota for
45.19 the St. Croix Watershed Research Station to
45.20 determine the historical distribution,
45.21 abundance, and toxicity of the invasive
45.22 blue-green alga, *Cylindrospermopsis*
45.23 *raciborskii*, in about 20 lakes across Minnesota
45.24 and inform managers and the public about the
45.25 alga's spread and health risks. This
45.26 appropriation is available until June 30, 2021,
45.27 by which time the project must be completed
45.28 and final products delivered.

45.29 **Sec. 5. EFFECTIVE DATE.**

45.30 Sections 1, 2, and 4 are effective the day following final enactment.