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State of Minnesota
HOUSE OF REPRESENTATIVES
NINETIETH SESSION

H. F. No. 3352

03/05/2018 Authored by Heintzeman and Ecklund
The bill was read for the first time and referred to the Committee on Environment and Natural Resources Policy and Finance

1.1 A bill for an act
1.2 relating to natural resources; appropriating money from environment and natural
1.3 resources trust fund; correcting previous appropriations; modifying requirements
1.4 for receipt of fund money; amending Minnesota Statutes 2016, sections 116P.08,
1.5 subdivision 2; 116P.12, subdivision 1; Laws 2015, chapter 76, section 2, subdivision
1.6 9; Laws 2017, chapter 96, section 2, subdivision 8.

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

1.8 Section 1. APPROPRIATIONS.

1.9 The sums shown in the columns marked "Appropriations" are appropriated to the agencies
1.10 and for the purposes specified in this act. The appropriations are from the environment and
1.11 natural resources trust fund, or another named fund, and are available for the fiscal years
1.12 indicated for each purpose. The figures "2018" and "2019" used in this act mean that the
1.13 appropriations listed under them are available for the fiscal year ending June 30, 2018, or
1.14 June 30, 2019, respectively. "The first year" is fiscal year 2018. "The second year" is fiscal
1.15 year 2019. "The biennium" is fiscal years 2018 and 2019.

1.16	<u>APPROPRIATIONS</u>		
1.17	<u>Available for the Year</u>		
1.18	<u>Ending June 30</u>		
1.19	<u>2018</u>	<u>2019</u>	

1.20 Sec. 2. MINNESOTA RESOURCES

1.21	<u>Subdivision 1. Total Appropriation</u>	<u>\$</u>	<u>-0-</u>	<u>\$</u>	<u>45,828,000</u>
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1.22 The amounts that may be spent for each
1.23 purpose are specified in the following
1.24 subdivisions. Appropriations are available for

2.1 two years beginning July 1, 2018, unless
 2.2 otherwise stated in the appropriation. Any
 2.3 unencumbered balance remaining in the first
 2.4 year does not cancel and is available for the
 2.5 second year or until the end of the
 2.6 appropriation.

2.7 **Subd. 2. Definition**

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

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

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7,293,000

2.14 **(a) County Geologic Atlases - Part A**

2.15 \$2,500,000 the second year is from the trust
 2.16 fund to the Board of Regents of the University
 2.17 of Minnesota, Minnesota Geological Survey,
 2.18 to continue producing county geologic atlases
 2.19 for the purpose of informed management of
 2.20 surface water and groundwater resources. This
 2.21 appropriation is to complete part A, which
 2.22 focuses on the properties and distribution of
 2.23 earth materials to define aquifer boundaries
 2.24 and the connection of aquifers to the land
 2.25 surface and surface water resources. This
 2.26 appropriation is available until June 30, 2022,
 2.27 by which time the project must be completed
 2.28 and final products delivered.

2.29 **(b) County Geologic Atlases - Part B**

2.30 \$1,500,000 the second year is from the trust
 2.31 fund to the commissioner of natural resources
 2.32 to continue producing county geologic atlases
 2.33 for the purpose of informed management of
 2.34 surface water and groundwater resources for
 2.35 drinking water and other purposes. This

3.1 appropriation is to complete part B, which
3.2 uses the geologic formations mapped in part
3.3 A of the county geologic atlas project to
3.4 characterize the potential water yields of
3.5 aquifers and their sensitivity to contamination.

3.6 This appropriation is available until June 30,
3.7 2021, by which time the project must be
3.8 completed and final products delivered.

3.9 **(c) Providing Critical Water-Quality**
3.10 **Information for Lake Management**

3.11 \$250,000 the second year is from the trust
3.12 fund to the Board of Regents of the University
3.13 of Minnesota to develop a semiautomated
3.14 system to acquire, process, and deliver new
3.15 satellite-derived water-quality data in near real
3.16 time on water clarity, algae, and turbidity for
3.17 Minnesota lakes. This appropriation is
3.18 available until June 30, 2021, by which time
3.19 the project must be completed and final
3.20 products delivered.

3.21 **(d) Minnesota Biodiversity Atlas - Phase 2**

3.22 \$350,000 the second year is from the trust
3.23 fund to the Board of Regents of the University
3.24 of Minnesota to expand the biodiversity atlas
3.25 project by adding more than 800,000 records
3.26 and images of Minnesota wildlife, plants, and
3.27 fungi, including observations from state
3.28 agencies and other museum collections, to
3.29 enhance research, guide field surveys, and
3.30 inform conservation planning. This
3.31 appropriation is available until June 30, 2021,
3.32 by which time the project must be completed
3.33 and final products delivered.

3.34 **(e) Peatland Forest Management**

4.1 \$600,000 the second year is from the trust
4.2 fund to the Board of Regents of the University
4.3 of Minnesota to identify management actions
4.4 to maximize benefits to wildlife, water quality,
4.5 timber production, and native plant
4.6 communities in peatland forests. This
4.7 appropriation is available until June 30, 2022,
4.8 by which time the project must be completed
4.9 and final products delivered.

4.10 **(f) Assessing Natural Resource Benefits Provided**
4.11 **by Lichens and Mosses**

4.12 \$213,000 the second year is from the trust
4.13 fund to the Board of Regents of the University
4.14 of Minnesota to survey, map, and analyze
4.15 mosses and lichens across the state, including
4.16 their moisture-retention capacity, effects on
4.17 hydrology, and ability to filter airborne
4.18 pollutants. This appropriation is available until
4.19 June 30, 2021, by which time the project must
4.20 be completed and final products delivered.

4.21 **(g) Develop a System to Assess Wildlife Health**
4.22 **Threats in Minnesota**

4.23 \$280,000 the second year is from the trust
4.24 fund to the Board of Regents of the University
4.25 of Minnesota to develop a statewide
4.26 information-management system that uses
4.27 wildlife-rehabilitation data to identify
4.28 emerging threats to wildlife health in
4.29 Minnesota.

4.30 **(h) Conserving Minnesota's Forest Birds of**
4.31 **Management Concern**

4.32 \$500,000 the second year is from the trust
4.33 fund to the Board of Regents of the University
4.34 of Minnesota for the Natural Resources
4.35 Research Institute in Duluth to identify
4.36 forest-management actions and guidelines to

5.1 conserve birds in Minnesota's forests. This
5.2 appropriation is available until June 30, 2021,
5.3 by which time the project must be completed
5.4 and final products delivered.

5.5 **(i) Mapping Avian Movement in Minnesota**

5.6 \$200,000 the second year is from the trust
5.7 fund to the Board of Regents of the University
5.8 of Minnesota for the Natural Resources
5.9 Research Institute in Duluth to pilot the
5.10 establishment of a network of automated
5.11 radio-telemetry stations to monitor bird
5.12 migration and local movements and to develop
5.13 strategic plans for using the infrastructure long
5.14 term to monitor animal movement for
5.15 conservation. This appropriation is available
5.16 until June 30, 2021, by which time the project
5.17 must be completed and final products
5.18 delivered.

5.19 **(j) Improve Trout-Stream Management by**
5.20 **Understanding Variable Winter Thermal**
5.21 **Conditions**

5.22 \$400,000 the second year is from the trust
5.23 fund to the Board of Regents of the University
5.24 of Minnesota to identify how winter
5.25 groundwater flows, air temperature, and
5.26 streambed conditions affect insect productivity
5.27 in order to guide restoration and management
5.28 efforts in southeastern Minnesota trout
5.29 streams. This appropriation is available until
5.30 June 30, 2021, by which time the project must
5.31 be completed and final products delivered.

5.32 **(k) Conserving Minnesota's Nine Species of**
5.33 **Freshwater Turtles**

5.34 \$300,000 the second year is from the trust
5.35 fund to the Minnesota Zoological Garden to
5.36 improve the long-term viability of Minnesota's

6.1 imperiled turtle populations by researching
 6.2 threats, identifying mitigation strategies,
 6.3 implementing mechanisms to reduce threats
 6.4 and mortality, and creating related outreach
 6.5 and educational materials. This appropriation
 6.6 is available until June 30, 2021, by which time
 6.7 the project must be completed and final
 6.8 products delivered.

6.9 **(l) Develop Sonar Data Mapping on Three**
 6.10 **Rivers to Assess Suitability for Native Mussel**
 6.11 **Habitat**

6.12 \$200,000 the second year is from the trust
 6.13 fund to the commissioner of natural resources
 6.14 for an agreement with the National Park
 6.15 Service to create high-resolution sonar data
 6.16 maps to identify critical native mussel habitat
 6.17 for the designated Lower St. Croix National
 6.18 Scenic Riverway and the Mississippi National
 6.19 River and Recreation Area including part of
 6.20 the Minnesota River.

6.21 Subd. 4. Water Resources -0- 5,275,000

6.22 **(a) Pilot Program to Optimize Local Mechanical**
 6.23 **and Pond Wastewater-Treatment Plants**

6.24 \$700,000 the second year is from the trust
 6.25 fund to the commissioner of the Minnesota
 6.26 Pollution Control Agency, in partnership with
 6.27 the Minnesota Rural Water Association and
 6.28 the University of Minnesota's Technical
 6.29 Assistance Program, to implement a pilot
 6.30 program to optimize existing local mechanical
 6.31 and pond wastewater-treatment systems to
 6.32 increase nutrient removal and improve
 6.33 efficiency without requiring costly upgrades.

6.34 **(b) Assess and Develop Strategies to Remove**
 6.35 **Microscopic Plastic-Particle Pollution from**
 6.36 **Minnesota Water Bodies**

7.1 \$300,000 the second year is from the trust
7.2 fund to the Board of Regents of the University
7.3 of Minnesota to assess, track, and develop
7.4 methods to remove microscopic plastic
7.5 particles that are dispersed and accumulating
7.6 as pollution in Minnesota water bodies. This
7.7 appropriation is subject to Minnesota Statutes,
7.8 section 116P.10. This appropriation is
7.9 available until June 30, 2021, by which time
7.10 the project must be completed and final
7.11 products delivered.

7.12 **(c) Reduce Chlorides in Minnesota Waters by**
7.13 **Evaluating Road-Salt Alternatives and**
7.14 **Pavement Innovations**

7.15 \$400,000 the second year is from the trust
7.16 fund to the Board of Regents of the University
7.17 of Minnesota to investigate road-salt
7.18 alternatives and pavement innovations to
7.19 reduce lake, stream, and groundwater
7.20 degradation caused by road-salt chlorides. This
7.21 appropriation is available until June 30, 2021,
7.22 by which time the project must be completed
7.23 and final products delivered.

7.24 **(d) Protect Water Quality with Efficient**
7.25 **Removal of Contaminants in Treatment Ponds**
7.26 **for Storm Water**

7.27 \$325,000 the second year is from the trust
7.28 fund to the Board of Trustees of the Minnesota
7.29 State Colleges and Universities system for St.
7.30 Cloud State University to evaluate the
7.31 effectiveness of best management practices in
7.32 removing contaminants from storm water to
7.33 safeguard aquatic habitats. This appropriation
7.34 is available until June 30, 2021, by which time
7.35 the project must be completed and final
7.36 products delivered.

8.1 **(e) Develop Small and Inexpensive Purification**
8.2 **System for Community Drinking Water**

8.3 \$425,000 the second year is from the trust
8.4 fund to the Board of Regents of the University
8.5 of Minnesota to develop a small and
8.6 inexpensive purification-technology system
8.7 for community drinking-water facilities to
8.8 remove toxic contaminants, make water safe
8.9 to drink, and improve drinking-water quality.
8.10 This appropriation is subject to Minnesota
8.11 Statutes, section 116P.10. This appropriation
8.12 is available until June 30, 2021, by which time
8.13 the project must be completed and final
8.14 products delivered.

8.15 **(f) Evaluate Emerging Pathogens in Lakes,**
8.16 **Rivers, and Tap Water to Keep Drinking Water**
8.17 **Safe**

8.18 \$325,000 the second year is from the trust
8.19 fund to the Board of Regents of the University
8.20 of Minnesota to evaluate emerging pathogens
8.21 including Legionella and mycobacteria to
8.22 ensure that surface water used for drinking
8.23 water and tap water is safe to drink. This
8.24 appropriation is available until June 30, 2021,
8.25 by which time the project must be completed
8.26 and final products delivered.

8.27 **(g) Characterize Unregulated Contaminants in**
8.28 **Source Water and Drinking Water**

8.29 \$1,000,000 the second year is from the trust
8.30 fund to the commissioner of health to establish
8.31 monitoring networks of public water-system
8.32 wells and surface-water intakes to determine
8.33 if contaminants persist after standard public
8.34 water treatment. This appropriation is
8.35 available until June 30, 2022, by which time

9.1 the project must be completed and final
9.2 products delivered.

9.3 **(h) Mapping Antibiotic Resistance in Minnesota**
9.4 **to Help Protect Environmental, Animal, and**
9.5 **Human Health**

9.6 \$750,000 the second year is from the trust
9.7 fund to the Board of Regents of the University
9.8 of Minnesota to quantify and map antibiotic
9.9 and antibiotic-resistance gene contamination
9.10 in Minnesota waters and soils to identify
9.11 locations in need of mitigation to protect
9.12 environmental, animal, and human health. This
9.13 appropriation is available until June 30, 2021,
9.14 by which time the project must be completed
9.15 and final products delivered.

9.16 **(i) Farmer-Led Expansion of Alfalfa Production**
9.17 **to Increase Water Protection**

9.18 \$500,000 the second year is from the trust
9.19 fund to the Board of Regents of the University
9.20 of Minnesota to develop a farmer-led,
9.21 market-based working-lands approach to
9.22 increase water protection in agricultural areas
9.23 by targeted expansion of alfalfa production
9.24 and development of methods to convert alfalfa
9.25 to high-value bioproducts. This appropriation
9.26 is available until June 30, 2021, by which time
9.27 the project must be completed and final
9.28 products delivered.

9.29 **(j) Using Perennial Grain Crops in Wellhead**
9.30 **Protection Areas to Protect Groundwater**

9.31 \$250,000 the second year is from the trust
9.32 fund to the commissioner of agriculture to
9.33 establish demonstration plots of Kernza, a new
9.34 intermediate perennial grain crop, to evaluate
9.35 the potential to profitably reduce nitrate
9.36 contamination of groundwater in vulnerable

10.1 wellhead protection regions of Minnesota.
 10.2 Any income generated as part of this
 10.3 appropriation may be used to expand the
 10.4 project.

10.5 **(k) Implement Pilot Credit-Trading System for**
 10.6 **Storm Water in Shell Rock River Watershed to**
 10.7 **Improve Water Quality**

10.8 \$300,000 the second year is from the trust
 10.9 fund to the commissioner of natural resources
 10.10 for an agreement with the Shell Rock River
 10.11 Watershed District to develop and implement
 10.12 a pilot water-quality credit-trading program
 10.13 for storm water that provides voluntary and
 10.14 cost-effective options to reduce pollution on
 10.15 a watershed scale.

10.16 **Subd. 5. Technical Assistance, Outreach, and**
 10.17 **Environmental Education**

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5,168,000

10.18 **(a) Prairie Sportsman Statewide Environmental**
 10.19 **Broadcasts and Videos**

10.20 \$300,000 the second year is from the trust
 10.21 fund to the commissioner of natural resources
 10.22 for an agreement with Pioneer Public
 10.23 Television to provide outreach on outdoor
 10.24 recreation, conservation, and natural resource
 10.25 issues, including water quality, wildlife
 10.26 habitat, and invasive species, through a series
 10.27 of interrelated educational and training videos
 10.28 and statewide broadcast television programs.

10.29 **(b) YES! Students Take on Minnesota Water-**
 10.30 **Quality Challenge**

10.31 \$213,000 the second year is from the trust
 10.32 fund to the commissioner of natural resources
 10.33 for an agreement with Prairie Woods
 10.34 Environmental Learning Center to expand the
 10.35 Youth Energy Summit (YES!) model to
 10.36 improve local waterways by training and

11.1 mobilizing over 20 youth-led teams in
11.2 Minnesota communities to complete 30 or
11.3 more projects related to water quality
11.4 including monitoring and reporting.

11.5 **(c) Get Outdoors After-School Training**

11.6 \$30,000 the second year is from the trust fund
11.7 to the commissioner of natural resources for
11.8 an agreement with Project Get Outdoors to
11.9 train and equip youth leaders at out-of-school
11.10 youth organizations across Minnesota with
11.11 knowledge, skills, and resources to incorporate
11.12 outdoor nature activities into after-school
11.13 programs for at least 6,000 children, including
11.14 those from underserved populations.

11.15 **(d) Connecting Students with Water**
11.16 **Stewardship through Hands-on Learning**

11.17 \$400,000 the second year is from the trust
11.18 fund to the commissioner of natural resources
11.19 for an agreement with Minnesota Trout
11.20 Unlimited to engage students in classroom and
11.21 outdoor hands-on learning focused on water
11.22 quality, groundwater, aquatic life, and
11.23 watershed stewardship and providing youth
11.24 and their families with fishing experiences.

11.25 This appropriation is available until June 30,
11.26 2021, by which time the project must be
11.27 completed and final products delivered.

11.28 **(e) Expanding River Watch Program on the**
11.29 **Minnesota River With High School Teams**

11.30 \$100,000 the second year is from the trust
11.31 fund to the commissioner of natural resources
11.32 for an agreement with Friends of the
11.33 Minnesota Valley to expand a River Watch
11.34 program on the Minnesota River to recruit at
11.35 least 15 additional teams of high school

12.1 students in monthly monitoring and reporting
 12.2 of water quality.

12.3 **(f) Increase Diversity in Environmental Careers**
 12.4 **to Serve Minnesota's Changing Demographics**

12.5 \$750,000 the second year is from the trust
 12.6 fund to the commissioner of natural resources
 12.7 in cooperation with Conservation Corps
 12.8 Minnesota and Iowa to provide a
 12.9 college-to-work pathway for students of
 12.10 diversity to pursue natural resources careers
 12.11 through internships and mentorships with state
 12.12 agencies. This appropriation is available until
 12.13 June 30, 2023, by which time the project must
 12.14 be completed and final products delivered.

12.15 **(g) Pollinator Ambassadors Program for**
 12.16 **Gardens**

12.17 \$250,000 the second year is from the trust
 12.18 fund to the Board of Regents of the University
 12.19 of Minnesota to increase knowledge of
 12.20 pollinators in gardens and yards and improve
 12.21 pollinator habitat by expanding outreach,
 12.22 training, and tools for Minnesota communities
 12.23 as part of the Pollinator Ambassadors program.
 12.24 This appropriation is available until June 30,
 12.25 2021, by which time the project must be
 12.26 completed and final products delivered.

12.27 **(h) Morris Prairie Pollinator Demonstration**
 12.28 **Area and Education**

12.29 \$550,000 the second year is from the trust
 12.30 fund to the Board of Regents of the University
 12.31 of Minnesota for the West Central Research
 12.32 and Outreach Center at Morris to restore 17
 12.33 acres of native prairie for pollinators and to
 12.34 construct wayside shelters and kiosks along
 12.35 an existing trail to provide information to
 12.36 visitors on the importance of pollinators and

13.1 native prairie ecosystems. This appropriation
 13.2 is available until June 30, 2021, by which time
 13.3 the project must be completed and final
 13.4 products delivered.

13.5 **(i) Expanding Nature Knowledge and**
 13.6 **Experience with New Interactive Exhibits at**
 13.7 **North Mississippi Regional Park**

13.8 \$500,000 the second year is from the trust
 13.9 fund to the commissioner of natural resources
 13.10 for an agreement with the Minneapolis Park
 13.11 and Recreation Board to develop new
 13.12 interactive exhibits at North Mississippi
 13.13 Regional Park to encourage the approximately
 13.14 326,000 annual visitors to better understand
 13.15 and explore the river and surrounding natural
 13.16 area.

13.17 **(j) Update International Wolf Center Exhibits**

13.18 \$1,000,000 the second year is from the trust
 13.19 fund to the commissioner of natural resources
 13.20 for an agreement with the International Wolf
 13.21 Center to design, construct, and install new
 13.22 interactive educational exhibits to help
 13.23 Minnesotans understand coexistence with the
 13.24 state's wolf populations and ongoing wolf-
 13.25 management efforts.

13.26 **(k) Expanding the State's Reuse Economy to**
 13.27 **Conserve Natural Resources**

13.28 \$275,000 the second year is from the trust
 13.29 fund to the commissioner of natural resources
 13.30 for an agreement with ReUSE Minnesota to
 13.31 provide outreach and technical assistance to
 13.32 communities and small businesses to create
 13.33 and expand opportunities for reusing, renting,
 13.34 and repairing consumer goods as an alternative
 13.35 to using new materials so solid-waste disposal

14.1 and its impacts are measurably reduced and
 14.2 more local reuse jobs are created.

14.3 **(l) Expand Materials Reuse and Recycling Jobs**
 14.4 **Program**

14.5 \$665,000 the second year is from the trust
 14.6 fund to the commissioner of natural resources
 14.7 for an agreement with Better Futures
 14.8 Minnesota, in cooperation with the Northwest
 14.9 Indian Community Development Corporation,
 14.10 and \$135,000 the second year is from the trust
 14.11 fund to the Board of Regents of the University
 14.12 of Minnesota for the Natural Resources
 14.13 Research Institute in Duluth to expand
 14.14 building deconstruction and material-reuse
 14.15 practices and jobs in partnership with counties,
 14.16 tribes, and municipalities statewide and to
 14.17 document the environmental, health, and
 14.18 economic benefits of these practices.

14.19 **Subd. 6. Aquatic and Terrestrial Invasive Species** -0- 5,760,000

14.20 **(a) Minnesota Invasive Terrestrial Plants and**
 14.21 **Pests Center - Phase 4**

14.22 \$3,500,000 the second year is from the trust
 14.23 fund to the Board of Regents of the University
 14.24 of Minnesota for high-priority research at the
 14.25 Invasive Terrestrial Plants and Pests Center
 14.26 to protect Minnesota’s natural and agricultural
 14.27 resources from terrestrial invasive plants,
 14.28 pathogens, and pests as identified through the
 14.29 center's strategic prioritization process. This
 14.30 appropriation is available until June 30, 2023,
 14.31 by which time the project must be completed
 14.32 and final products delivered.

14.33 **(b) Palmer Amaranth Detection and Eradication**
 14.34 **Continuation**

14.35 \$431,000 the second year is from the trust
 14.36 fund to the commissioner of agriculture to

15.1 continue to monitor, ground survey, and
 15.2 control Palmer amaranth primarily in
 15.3 conservation plantings and to develop and
 15.4 implement aerial-survey methods to prevent
 15.5 infestation and protect prairies, other natural
 15.6 areas, and agricultural crops.

15.7 **(c) Evaluate Control Methods for Invasive**
 15.8 **Hybrid Cattails**

15.9 \$131,000 the second year is from the trust
 15.10 fund to the commissioner of natural resources
 15.11 for an agreement with Voyageurs National
 15.12 Park to evaluate the effectiveness of
 15.13 mechanical harvesting and managing muskrat
 15.14 populations to remove exotic hybrid cattails
 15.15 and restore fish and wildlife habitat in
 15.16 Minnesota wetlands. This appropriation is
 15.17 available until June 30, 2021, by which time
 15.18 the project must be completed and final
 15.19 products delivered.

15.20 **(d) Developing RNA Interference to Control**
 15.21 **Zebra Mussels**

15.22 \$500,000 the second year is from the trust
 15.23 fund to the commissioner of natural resources
 15.24 for an agreement with the United States
 15.25 Geological Survey to develop a genetic control
 15.26 tool that exploits the natural process of RNA
 15.27 silencing to specifically target and effectively
 15.28 control zebra mussels without affecting other
 15.29 species or causing other nontarget effects. This
 15.30 appropriation is available until June 30, 2021,
 15.31 by which time the project must be completed
 15.32 and final products delivered.

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

15.35 \$998,000 the second year is from the trust
 15.36 fund to the Board of Regents of the University

16.1 of Minnesota in cooperation with the United
 16.2 States Army Corps of Engineers and the
 16.3 United States Fish and Wildlife Service to
 16.4 install, evaluate, and optimize a system in
 16.5 Mississippi River locks and dams to deter
 16.6 passage of invasive carp without negatively
 16.7 impacting native fish and to evaluate the
 16.8 ability of predator fish in the pools above the
 16.9 locks and dams to consume young carp. The
 16.10 project must conduct a cost comparison of
 16.11 equipment purchase versus lease options and
 16.12 choose the most effective option. This
 16.13 appropriation is available until June 30, 2021,
 16.14 by which time the project must be completed
 16.15 and final products delivered.

16.16 **(f) Determining Risk of Toxic Alga in Minnesota**
 16.17 **Lakes**

16.18 \$200,000 the second year is from the trust
 16.19 fund to the Science Museum of Minnesota for
 16.20 the St. Croix Watershed Research Station to
 16.21 determine the historical distribution,
 16.22 abundance, and toxicity of the invasive
 16.23 blue-green alga, *Cylindrospermopsis*
 16.24 *raciborskii*, in about 20 lakes across Minnesota
 16.25 and inform managers and the public about the
 16.26 alga's spread and health risks. This
 16.27 appropriation is available until June 30, 2021,
 16.28 by which time the project must be completed
 16.29 and final products delivered.

16.30 **Subd. 7. Air Quality and Renewable Energy** -0- 1,200,000

16.31 **(a) Develop Solar Window Concentrators for**
 16.32 **Electricity**

16.33 \$350,000 the second year is from the trust
 16.34 fund to the Board of Regents of the University
 16.35 of Minnesota to develop, evaluate, and
 16.36 optimize thin film silicon-based luminescent

17.1 solar window concentrators in order to
 17.2 produce inexpensive, clean energy and reduce
 17.3 air pollution. This appropriation is subject to
 17.4 Minnesota Statutes, section 116P.10. This
 17.5 appropriation is available until June 30, 2021,
 17.6 by which time the project must be completed
 17.7 and final products delivered.

17.8 **(b) Demonstrations for Community-Scale**
 17.9 **Storage Systems for Renewable Energy**

17.10 \$550,000 the second year is from the trust
 17.11 fund to the Board of Regents of the University
 17.12 of Minnesota to install, demonstrate, and
 17.13 evaluate three community-scale storage
 17.14 systems for renewable energy and develop a
 17.15 guidebook on storing renewable energy for
 17.16 statewide use. This appropriation is available
 17.17 until June 30, 2021, by which time the project
 17.18 must be completed and final products
 17.19 delivered.

17.20 **(c) Develop Inexpensive Energy from Simple**
 17.21 **Roll-to-Roll Manufacturing**

17.22 \$300,000 the second year is from the trust
 17.23 fund to the Board of Regents of the University
 17.24 of Minnesota to develop inexpensive,
 17.25 high-efficiency solar energy with simple
 17.26 roll-to-roll advanced manufacturing
 17.27 technology, using new materials such as
 17.28 perovskite to make solar cells. This
 17.29 appropriation is subject to Minnesota Statutes,
 17.30 section 116P.10. This appropriation is
 17.31 available until June 30, 2021, by which time
 17.32 the project must be completed and final
 17.33 products delivered.

17.34 **Subd. 8. Methods to Protect or Restore Land,**
 17.35 **Water, and Habitat**

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3,119,000

17.36 **(a) Nongame Wildlife Program Acceleration**

18.1 \$1,000,000 the second year is from the trust
18.2 fund to the commissioner of natural resources
18.3 to accelerate the nongame wildlife program
18.4 including rare wildlife data collection, habitat
18.5 management, collaborative land protection,
18.6 conservation education, and a new emphasis
18.7 on promoting nature tourism to benefit
18.8 wildlife, visitors, and rural communities.

18.9 **(b) Develop Biomulch to Replace Plastic Soil**
18.10 **Covering in Vegetable and Fruit Production to**
18.11 **Increase Yield and Reduce Waste**

18.12 \$310,000 the second year is from the trust
18.13 fund to the Board of Regents of the University
18.14 of Minnesota to develop and test the
18.15 performance of biodegradable biomulch to
18.16 increase yield, conserve water, suppress weeds
18.17 and pests, add nutrients to the soil, and replace
18.18 large amounts of nonrecyclable and
18.19 nondegradable plastic used in vegetable and
18.20 fruit production. This appropriation is
18.21 available until June 30, 2021, by which time
18.22 the project must be completed and final
18.23 products delivered.

18.24 **(c) Develop Market-Based Alternatives for**
18.25 **Perennial Crops to Benefit Water Quality and**
18.26 **Wildlife**

18.27 \$150,000 the second year is from the trust
18.28 fund to the Science Museum of Minnesota for
18.29 the St. Croix Watershed Research Station to
18.30 design and evaluate at least six market-based
18.31 scenarios for perennial cropping systems in
18.32 Minnesota, including technological and
18.33 economic feasibility, and estimate their
18.34 potential to improve water quality and provide
18.35 wildlife habitat. This appropriation is available
18.36 until June 30, 2021, by which time the project

19.1 must be completed and final products
19.2 delivered.

19.3 **(d) Agricultural Weed Control Using**
19.4 **Autonomous Mowers**

19.5 \$550,000 the second year is from the trust
19.6 fund to the Board of Regents of the University
19.7 of Minnesota for the West Central Research
19.8 and Outreach Center at Morris to design,
19.9 integrate, and field-test an autonomous pasture
19.10 mower and solar charging station to control
19.11 weeds, reduce herbicide use, reduce energy
19.12 costs, and improve native vegetation and
19.13 forage quality on agricultural lands. This
19.14 appropriation is subject to Minnesota Statutes,
19.15 section 116P.10. This appropriation is
19.16 available until June 30, 2021, by which time
19.17 the project must be completed and final
19.18 products delivered.

19.19 **(e) Restoring Forests in Minnesota State Parks**

19.20 \$250,000 the second year is from the trust
19.21 fund to the commissioner of natural resources
19.22 to restore at least 255 acres of high-quality
19.23 forests in state parks such as Itasca, Jay Cooke,
19.24 and Forestville Mystery Cave State Parks and
19.25 Greenleaf Lake State Recreation Area. This
19.26 appropriation is available until June 30, 2023,
19.27 by which time the project must be completed
19.28 and final products delivered.

19.29 **(f) Develop Strategies for Timber Harvest to**
19.30 **Minimize Soil Impacts to Maintain Healthy and**
19.31 **Diverse Forests**

19.32 \$200,000 the second year is from the trust
19.33 fund to the Board of Regents of the University
19.34 of Minnesota to develop strategies and
19.35 practical tools to minimize soil compaction
19.36 and other impacts across a range of conditions

20.1 during timber harvest to maintain timber
 20.2 availability, improve regeneration of diverse
 20.3 forests, and benefit wildlife habitat. This
 20.4 appropriation is available until June 30, 2022,
 20.5 by which time the project must be completed
 20.6 and final products delivered.

20.7 **(g) Restoring Wetland Invertebrates to Revive**
 20.8 **Wildlife Habitat**

20.9 \$400,000 the second year is from the trust
 20.10 fund to the commissioner of natural resources
 20.11 to assess invertebrate amphipods in wetlands
 20.12 and explore stocking them as a valuable food
 20.13 source for ducks and other wildlife in the
 20.14 Prairie Pothole Region of the state. This
 20.15 appropriation is available until June 30, 2021,
 20.16 by which time the project must be completed
 20.17 and final products delivered.

20.18 **(h) Preserving Minnesota's Native Orchids -**
 20.19 **Phase 2**

20.20 \$259,000 the second year is from the trust
 20.21 fund to the Board of Regents of the University
 20.22 of Minnesota for the Minnesota Landscape
 20.23 Arboretum to expand collection and
 20.24 preservation efforts to enable long-term
 20.25 conservation of at least 25 of the 48 native
 20.26 orchid species in Minnesota and to continue
 20.27 propagation and cultivation research. This
 20.28 appropriation is available until June 30, 2021,
 20.29 by which time the project must be completed
 20.30 and final products delivered.

20.31 **Subd. 9. Land Acquisition, Habitat, and**
 20.32 **Recreation**

-0-

17,439,000

20.33 **(a) Grants for Local Parks, Trails, and Natural**
 20.34 **Areas**

20.35 \$2,000,000 the second year is from the trust
 20.36 fund to the commissioner of natural resources

21.1 to solicit, rank, and fund competitive matching
 21.2 grants for local parks, trail connections, and
 21.3 natural and scenic areas under Minnesota
 21.4 Statutes, section 85.019. The appropriation is
 21.5 for local nature-based recreation and
 21.6 connections to regional and state natural areas
 21.7 and recreation facilities and does not include
 21.8 athletic facilities such as sport fields, courts,
 21.9 and playgrounds. This appropriation is
 21.10 available until June 30, 2021, by which time
 21.11 the project must be completed and final
 21.12 products delivered.

21.13 **(b) Develop Mesabi Trail Segment From County**
 21.14 **Road 88 to Ely**

21.15 \$600,000 the second year is from the trust
 21.16 fund to the commissioner of natural resources
 21.17 for an agreement with the St. Louis and Lake
 21.18 Counties Regional Railroad Authority for
 21.19 environmental assessment, permitting,
 21.20 right-of-way easements or other acquisition
 21.21 as needed, engineering, and construction of
 21.22 an approximately three-mile-long bituminous
 21.23 surface section of the Mesabi Trail between
 21.24 Ely and the intersection of Highway 169 and
 21.25 County Road 88. This appropriation is
 21.26 available until June 30, 2022, by which time
 21.27 the project must be completed and final
 21.28 products delivered.

21.29 **(c) Harmony State Trail Extension Land**
 21.30 **Acquisition**

21.31 \$235,000 the second year is from the trust
 21.32 fund to the commissioner of natural resources
 21.33 for an agreement with the city of Harmony to
 21.34 acquire fee title of about 16 parcels to allow
 21.35 for the approximate six-mile extension of the
 21.36 legislatively authorized state trail from

22.1 Harmony south to the Iowa state border with
22.2 a spur to Niagara Cave. The land must be
22.3 transferred to the state after it has been
22.4 purchased.

22.5 **(d) Mississippi Blufflands State Trail - Red Wing**
22.6 **Barn Bluff to Colvill Park Segment**

22.7 \$550,000 the second year is from the trust
22.8 fund to the commissioner of natural resources
22.9 for an agreement with the city of Red Wing
22.10 to be used with other funds to construct an
22.11 approximate three-quarter-mile-long
22.12 hard-surfaced segment of the Mississippi
22.13 Blufflands State Trail along Red Wing's
22.14 Mississippi River riverfront from Barn Bluff
22.15 Regional Park to Colvill Park. This
22.16 appropriation is available until June 30, 2021,
22.17 by which time the project must be completed
22.18 and final products delivered.

22.19 **(e) Swedish Immigrant Regional Trail Segment**
22.20 **within Interstate State Park**

22.21 \$2,254,000 the second year is from the trust
22.22 fund to the commissioner of natural resources
22.23 for an agreement with Chisago County
22.24 Environmental Services to construct an
22.25 approximate one-half-mile regional county
22.26 trail segment within Interstate State Park from
22.27 the end point of the existing trail at the park
22.28 boundary to city hall including a trail bridge
22.29 over the ravine and parking and trailhead
22.30 improvements and to conduct a natural and
22.31 cultural review to determine the feasibility and
22.32 route of a future section of the trail through
22.33 the park. This appropriation is available until
22.34 June 30, 2021, by which time the project must
22.35 be completed and final products delivered.

22.36 **(f) Enhancement Plan for Superior Hiking Trail**

23.1 \$100,000 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 evaluate improvements
23.5 to the 310-mile-long Superior Hiking Trail
23.6 including routing, safety, water management,
23.7 maintenance, and other environmental,
23.8 recreational, and design issues and to develop
23.9 an interactive trail-management system to
23.10 capture efficiencies and best management
23.11 practices.

23.12 **(g) Protecting Mississippi River Headwaters**
23.13 **Lands through Local, State, and Federal**
23.14 **Partnership**

23.15 \$700,000 the second year is from the trust
23.16 fund to the commissioner of natural resources
23.17 for an agreement with the city of Baxter, in
23.18 cooperation with Brainerd Public Schools and
23.19 the Camp Ripley Sentinel Landscape Program,
23.20 to acquire about 200 acres of forested land on
23.21 the upper Mississippi River adjacent to
23.22 Mississippi River Overlook Park for multiple
23.23 public benefits, including being an outdoor
23.24 classroom for local schools. To be eligible for
23.25 reimbursement, costs for real estate
23.26 transactions must be specific to this acquisition
23.27 and documented as required in subdivision 15,
23.28 paragraph (k).

23.29 **(h) Protecting North-Central Minnesota Lakes**

23.30 \$750,000 the second year is from the trust
23.31 fund to the commissioner of natural resources
23.32 for an agreement with the Crow Wing County
23.33 Soil and Water Conservation District to
23.34 increase watershed protection to maintain and
23.35 improve water quality in lakes and rivers in
23.36 Aitkin and Crow Wing Counties with about

24.1 ten permanent RIM conservation easements
24.2 and 12 forest stewardship plans and by
24.3 implementing six best management practices.

24.4 **(i) Easement Program for Native Prairie Bank**

24.5 \$2,000,000 the second year is from the trust
24.6 fund to the commissioner of natural resources
24.7 to provide technical stewardship assistance to
24.8 private landowners, restore and enhance about
24.9 270 acres of native prairie protected by
24.10 easements in the native prairie bank, and
24.11 acquire easements for the native prairie bank
24.12 in accordance with Minnesota Statutes, section
24.13 84.96, on about 275 acres, including preparing
24.14 initial baseline property assessments. About
24.15 \$120,000 of this appropriation may be
24.16 deposited in the natural resources conservation
24.17 easement stewardship account, created in
24.18 Minnesota Statutes, section 84.69, proportional
24.19 to the number of easement acres acquired. A
24.20 list of proposed easement acquisitions and
24.21 restoration sites for the native prairie bank are
24.22 required in the work plan. This appropriation
24.23 is available until June 30, 2021, by which time
24.24 the project must be completed and final
24.25 products delivered.

24.26 **(j) Minnesota State Trail Development**

24.27 \$2,500,000 the second year is from the trust
24.28 fund to the commissioner of natural resources
24.29 to expand high-priority recreational
24.30 opportunities on Minnesota's state trails by
24.31 developing new trail segments and
24.32 rehabilitating, improving, and enhancing
24.33 existing state trails. High-priority trail
24.34 segments to develop and enhance include but
24.35 are not limited to the Gateway, Gitchi Gami,

25.1 Paul Bunyan, and Heartland State Trails. A
 25.2 proposed list of trail projects on legislatively
 25.3 authorized state trails is required in the work
 25.4 plan. This appropriation is available until June
 25.5 30, 2021, by which time the project must be
 25.6 completed and final products delivered.

25.7 **(k) Minnesota State Parks and State Trails**

25.8 \$2,500,000 the second year is from the trust
 25.9 fund to the commissioner of natural resources
 25.10 to acquire about 163 acres of high-priority
 25.11 inholdings from willing sellers within the
 25.12 legislatively authorized boundaries of state
 25.13 parks and trails in order to protect Minnesota's
 25.14 natural heritage, enhance outdoor recreational
 25.15 opportunities, and improve the efficiency of
 25.16 public land management. Priorities include
 25.17 but are not limited to Tettegouche, Sibley, and
 25.18 Minneopa State Parks and the Goodhue
 25.19 Pioneer State Trail. A list of proposed
 25.20 acquisitions is required in the work plan. This
 25.21 appropriation is available until June 30, 2021,
 25.22 by which time the project must be completed
 25.23 and final products delivered.

25.24 **(l) Scientific and Natural Areas Program**

25.25 \$3,250,000 the second year is from the trust
 25.26 fund to the commissioner of natural resources
 25.27 for the scientific and natural areas program.
 25.28 Of this amount, \$1,500,000 is for habitat
 25.29 restoration activities, \$500,000 is for scientific
 25.30 and natural areas public engagement and
 25.31 outreach, and \$1,250,000 is to acquire strategic
 25.32 high-quality lands that meet criteria for
 25.33 scientific and natural areas under Minnesota
 25.34 Statutes, section 86A.05, from willing sellers
 25.35 in southern Minnesota. For each acre acquired

26.1 with this appropriation, the Department of
 26.2 Natural Resources must document that the
 26.3 department has sold an acre of state land. If
 26.4 these acquisition requirements cannot be met,
 26.5 the appropriation may be used for scientific
 26.6 and natural areas restoration. A list of
 26.7 proposed acquisitions and restorations is
 26.8 required in the work plan. This appropriation
 26.9 is available until June 30, 2021, by which time
 26.10 the project must be completed and final
 26.11 products delivered.

26.12 **Subd. 10. Emerging Issues Account** -0- 439,000

26.13 \$439,000 the second year is from the trust
 26.14 fund to an emerging issues account authorized
 26.15 in Minnesota Statutes, section 116P.08,
 26.16 subdivision 4, paragraph (d).

26.17 **Subd. 11. Wastewater Treatment**
 26.18 **Recommendations**

26.19 **(a) Wastewater Treatment System Grants**

26.20 Until June 30, 2021, the Legislative-Citizen
 26.21 Commission on Minnesota Resources must
 26.22 consider recommending up to \$10,000,000 of
 26.23 the available money from the trust fund to
 26.24 match appropriations from the bond proceeds
 26.25 fund for wastewater infrastructure funding that
 26.26 exceed \$10,000,000 per year for expenditure
 26.27 by the Public Facilities Authority for
 26.28 wastewater treatment grants to home rule
 26.29 charter and statutory cities and towns with a
 26.30 population under 5,000. The grants must be
 26.31 issued under Minnesota Statutes, sections
 26.32 446A.072 and 446A.073. The
 26.33 recommendations may include a technical
 26.34 assistance program for recipients eligible
 26.35 under this subdivision. The commission must

27.1 work with the Public Facilities Authority in
 27.2 developing its recommendations.

27.3 **(b) Wastewater Treatment System Loans**

27.4 The commission must consider recommending
 27.5 up to five percent of the corpus of the trust
 27.6 fund for loans to the Public Facilities
 27.7 Authority to issue loans under Minnesota
 27.8 Statutes, section 446A.07, to home rule charter
 27.9 and statutory cities and towns with a
 27.10 population under 5,000.

27.11 **(c) Work Program and Semiannual Progress**
 27.12 **Report**

27.13 The work plan required under Minnesota
 27.14 Statutes, section 116P.05, subdivision 2,
 27.15 paragraph (b), must consist of lists showing
 27.16 the fundable ranges for grants and loans
 27.17 pursuant to this subdivision.

27.18 **Subd. 12. Contract Agreement Reimbursement** -0- 135,000

27.19 \$135,000 the second year is from the trust
 27.20 fund to the commissioner of natural resources,
 27.21 at the direction of the Legislative-Citizen
 27.22 Commission on Minnesota Resources, for
 27.23 expenses incurred for preparing and
 27.24 administering contracts for the agreements
 27.25 specified in this section. The commissioner
 27.26 must provide documentation to the
 27.27 Legislative-Citizen Commission on Minnesota
 27.28 Resources on the expenditure of these funds.

27.29 **Subd. 13. Availability of Appropriations**

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

28.1 appropriated in this section must not be spent
28.2 on indirect costs or other institutional overhead
28.3 charges that are not directly related to and
28.4 necessary for a specific appropriation. Costs
28.5 that are directly related to and necessary for
28.6 an appropriation, including financial services,
28.7 human resources, information services, rent,
28.8 and utilities, are eligible only if the costs can
28.9 be clearly justified and individually
28.10 documented specific to the appropriation's
28.11 purpose and would not be generated by the
28.12 recipient but for receipt of the appropriation.
28.13 No broad allocations for costs in either dollars
28.14 or percentages are allowed. Unless otherwise
28.15 provided, the amounts in this section are
28.16 available until June 30, 2020, when projects
28.17 must be completed and final products
28.18 delivered. For acquisition of real property, the
28.19 appropriations in this section are available for
28.20 an additional fiscal year if a binding contract
28.21 for acquisition of the real property is entered
28.22 into before the expiration date of the
28.23 appropriation. If a project receives a federal
28.24 grant, the period of the appropriation is
28.25 extended to equal the federal grant period.
28.26 **Subd. 14. Data Availability Requirements**
28.27 Data collected by the projects funded under
28.28 this section must conform to guidelines and
28.29 standards adopted by the Office of MN.IT
28.30 Services. Spatial data must also conform to
28.31 additional guidelines and standards designed
28.32 to support data coordination and distribution
28.33 that have been published by the Minnesota
28.34 Geospatial Information Office. Descriptions
28.35 of spatial data must be prepared as specified
28.36 in the state's geographic metadata guideline

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

29.11 **Subd. 15. Project Requirements**

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

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

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

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

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

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

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

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

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

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

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

34.1 **Subd. 16. Payment Conditions and**
 34.2 **Capital-Equipment Expenditures**

34.3 (a) All agreements, grants, or contracts
 34.4 referred to in this section must be administered
 34.5 on a reimbursement basis unless otherwise
 34.6 provided in this section. Notwithstanding
 34.7 Minnesota Statutes, section 16A.41,
 34.8 expenditures made on or after July 1, 2018,
 34.9 or the date the work plan is approved,
 34.10 whichever is later, are eligible for
 34.11 reimbursement unless otherwise provided in
 34.12 this section. Periodic payments must be made
 34.13 upon receiving documentation that the
 34.14 deliverable items articulated in the approved
 34.15 work plan have been achieved, including
 34.16 partial achievements as evidenced by approved
 34.17 progress reports. Reasonable amounts may be
 34.18 advanced to projects to accommodate
 34.19 cash-flow needs or match federal money. The
 34.20 advances must be approved as part of the work
 34.21 plan. No expenditures for capital equipment
 34.22 are allowed unless expressly authorized in the
 34.23 project work plan.

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

34.26 **Subd. 17. Purchasing Recycled and Recyclable**
 34.27 **Materials**

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

35.1 **Subd. 18. Energy Conservation and Sustainable**
 35.2 **Building Guidelines**

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

35.18 **Subd. 19. Accessibility**

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

35.23 **Subd. 20. Carryforward; Extension**

35.24 (a) The availability of the appropriations for
 35.25 the following projects are extended to June
 35.26 30, 2019:

35.27 (1) Laws 2014, chapter 226, section 2,
 35.28 subdivision 6, paragraph (j), Dredged
 35.29 Sediment for Forest Restoration on
 35.30 Unproductive Minelands;

35.31 (2) Laws 2014, chapter 226, section 2,
 35.32 subdivision 7, paragraph (b), Metropolitan
 35.33 Regional Park System Acquisition, as
 35.34 extended by Laws 2017, chapter 96, section
 35.35 2, subdivision 18, paragraph (a), clause (5);

- 36.1 (3) Laws 2015, chapter 76, section 2,
36.2 subdivision 3, paragraph (b), County Geologic
36.3 Atlases - Part B;
- 36.4 (4) Laws 2015, chapter 76, section 2,
36.5 subdivision 6, paragraph (c), Biological
36.6 Control of Canada Thistle;
- 36.7 (5) Laws 2015, chapter 76, section 2,
36.8 subdivision 6, paragraph (d), Preventing New
36.9 Disease of Pines in Minnesota;
- 36.10 (6) Laws 2015, chapter 76, section 2,
36.11 subdivision 9, paragraph (d), Native Prairie
36.12 Stewardship and Prairie Bank Easement
36.13 Acquisition;
- 36.14 (7) Laws 2015, chapter 76, section 2,
36.15 subdivision 9, paragraph (g), Metro
36.16 Conservation Corridors Phase VIII - Priority
36.17 Expansion of Minnesota Valley National
36.18 Wildlife Refuge;
- 36.19 (8) Laws 2015, chapter 76, section 2,
36.20 subdivision 10, Emerging Issues Account; and
- 36.21 (9) Laws 2016, chapter 186, section 2,
36.22 subdivision 9, paragraph (g), Otter Tail River
36.23 Recreational Trail Acquisition.
- 36.24 (b) The availability of the appropriations for
36.25 the following projects are extended to June
36.26 30, 2020:
- 36.27 (1) Laws 2015, chapter 76, section 2,
36.28 subdivision 9, paragraph (b), Metropolitan
36.29 Regional Park System Land Acquisition -
36.30 Phase IV;
- 36.31 (2) Laws 2016, chapter 186, section 2,
36.32 subdivision 10, paragraph (b), Grants
36.33 Management System; and

37.1 (3) Laws 2017, chapter 96, section 2,
 37.2 subdivision 6, paragraph (d), Adapting Stream
 37.3 Barriers to Remove Common Carp.

37.4 (c) The availability of the appropriation under
 37.5 Laws 2017, chapter 96, section 2, subdivision
 37.6 8, paragraph (l), Conservation Reserve
 37.7 Enhancement Program (CREP), is extended
 37.8 to June 30, 2022.

37.9 (d) The availability of the appropriation under
 37.10 Laws 2017, chapter 96, section 2, subdivision
 37.11 3, paragraph (n), Pollinator Research and
 37.12 Outreach, is extended to June 30, 2023.

37.13 Sec. 3. Minnesota Statutes 2016, section 116P.08, subdivision 2, is amended to read:

37.14 Subd. 2. **Exceptions.** Money from the trust fund may not be spent for:

37.15 (1) purposes of environmental compensation and liability under chapter 115B and
 37.16 response actions under chapter 115C;

37.17 (2) purposes of municipal water pollution control in municipalities with a population of
 37.18 5,000 or more under the authority of chapters 115 and 116;

37.19 (3) costs associated with the decommissioning of nuclear power plants;

37.20 (4) hazardous waste disposal facilities;

37.21 (5) solid waste disposal facilities; or

37.22 (6) projects or purposes inconsistent with the strategic plan.

37.23 Sec. 4. Minnesota Statutes 2016, section 116P.12, subdivision 1, is amended to read:

37.24 Subdivision 1. **Loans authorized.** (a) If the principal of the trust fund equals or exceeds
 37.25 \$200,000,000, the commission may vote to set aside up to five percent of the principal of
 37.26 the trust fund for water system improvement loans. The purpose of water system improvement
 37.27 loans is to offer below market rate interest loans to local units of government for the purposes
 37.28 of water system improvements.

37.29 (b) The interest on a loan shall be calculated on the declining balance at a rate ~~four~~
 37.30 ~~percentage points below~~ that is the greater of one percent or 50 percent of the secondary

38.1 market yield of one-year United States Treasury bills calculated according to section 549.09,
38.2 subdivision 1, paragraph (c).

38.3 (c) An eligible project must prove that existing federal or state loans or grants have not
38.4 been adequate.

38.5 (d) Payments on the principal and interest of loans under this section must be credited
38.6 to the trust fund.

38.7 (e) Repayment of loans made under this section must be completed within 20 years.

38.8 (f) The Minnesota Public Facilities Authority must report to the commission each year
38.9 on ~~the loan program~~ any loans made to the authority under this section.

38.10 Sec. 5. Laws 2015, chapter 76, section 2, subdivision 9, is amended to read:

38.11	Subd. 9. Land Acquisition for Habitat and		
38.12	Recreation	14,190,000	-0-

38.13 **(a) State Parks and Trails Land**

38.14 **Acquisitions**

38.15 \$1,500,000 the first year is from the trust fund
38.16 to the commissioner of natural resources to
38.17 acquire at least 335 acres for authorized state
38.18 trails and critical parcels within the statutory
38.19 boundaries of state parks. State park land
38.20 acquired with this appropriation must be
38.21 sufficiently improved to meet at least
38.22 minimum management standards, as
38.23 determined by the commissioner of natural
38.24 resources. A list of proposed acquisitions must
38.25 be provided as part of the required work plan.
38.26 This appropriation is available until June 30,
38.27 2018, by which time the project must be
38.28 completed and final products delivered.

38.29 **(b) Metropolitan Regional Park System**

38.30 **Land Acquisition - Phase IV**

38.31 \$1,000,000 the first year is from the trust fund
38.32 to the Metropolitan Council for grants to
38.33 acquire at least 133 acres of lands within the

39.1 approved park unit boundaries of the
39.2 metropolitan regional park system. This
39.3 appropriation may not be used to purchase
39.4 habitable residential structures. A list of
39.5 proposed fee title and easement acquisitions
39.6 must be provided as part of the required work
39.7 plan. This appropriation must be matched by
39.8 at least 40 percent of nonstate money that must
39.9 be committed by December 31, 2015, or the
39.10 appropriation cancels. This appropriation is
39.11 available until June 30, 2018, by which time
39.12 the project must be completed and final
39.13 products delivered.

39.14 **(c) SNA Acquisition, Restoration,**
39.15 **Enhancement, and Public Engagement**

39.16 \$4,000,000 the first year is from the trust fund
39.17 to the commissioner of natural resources to
39.18 acquire at least 350 acres of lands with
39.19 high-quality native plant communities and rare
39.20 features to be established as scientific and
39.21 natural areas as provided in Minnesota
39.22 Statutes, section 86A.05, subdivision 5, restore
39.23 and improve at least 550 acres of scientific
39.24 and natural areas, and provide technical
39.25 assistance and outreach. A list of proposed
39.26 acquisitions must be provided as part of the
39.27 required work plan. Land acquired with this
39.28 appropriation must be sufficiently improved
39.29 to meet at least minimum management
39.30 standards, as determined by the commissioner
39.31 of natural resources. This appropriation is
39.32 available until June 30, 2018, by which time
39.33 the project must be completed and final
39.34 products delivered.

40.1 **(d) Native Prairie Stewardship and Prairie**
40.2 **Bank Easement Acquisition**
40.3 \$3,325,000 the first year is from the trust fund
40.4 to the commissioner of natural resources to
40.5 acquire native prairie bank easements on at
40.6 least 675 acres, prepare baseline property
40.7 assessments, restore and enhance at least 1,000
40.8 acres of native prairie sites, and provide
40.9 technical assistance to landowners. Of this
40.10 amount, up to ~~\$135,000~~ \$195,000 must be
40.11 deposited in a conservation easement
40.12 stewardship account. Deposits into the
40.13 conservation easement stewardship account
40.14 must be made upon closing on conservation
40.15 easements or at a time otherwise approved in
40.16 the work plan. A list of proposed easement
40.17 acquisitions must be provided as part of the
40.18 required work plan. This appropriation is
40.19 available until June 30, 2018, by which time
40.20 the project must be completed and final
40.21 products delivered.

40.22 **(e) Metro Conservation Corridors - Phase**
40.23 **VIII Coordination, Mapping, and**
40.24 **Conservation Easements**
40.25 \$515,000 the first year is from the trust fund
40.26 to the commissioner of natural resources for
40.27 an agreement with the Minnesota Land Trust
40.28 for Phase VIII of the Metro Conservation
40.29 Corridors partnership to provide coordination
40.30 and mapping for the partnership and to acquire
40.31 permanent conservation easements on at least
40.32 120 acres of strategic ecological landscapes
40.33 to protect priority natural areas in the
40.34 metropolitan area, as defined under Minnesota
40.35 Statutes, section 473.121, subdivision 2, and

41.1 portions of the surrounding counties. A list of
41.2 proposed easement acquisitions must be
41.3 provided as part of the required work plan.
41.4 Land acquired with this appropriation must
41.5 be sufficiently improved to meet at least
41.6 minimum management standards, as
41.7 determined by the commissioner of natural
41.8 resources. Expenditures are limited to the
41.9 identified project corridor areas as defined in
41.10 the work plan. Up to \$40,000 may be used for
41.11 coordination and mapping for the Metro
41.12 Conservation Corridors. All conservation
41.13 easements must be perpetual and have a
41.14 natural resource management plan. A list of
41.15 proposed easement acquisitions must be
41.16 provided as part of the required work plan.
41.17 This appropriation is available June 30, 2018,
41.18 by which time the project must be completed
41.19 and final products delivered.

41.20 **(f) Metro Conservation Corridors - Phase**
41.21 **VIII Strategic Lands Protection**

41.22 \$750,000 the first year is from the trust fund
41.23 to the commissioner of natural resources for
41.24 an agreement with The Trust for Public Land
41.25 for Phase VIII of the Metro Conservation
41.26 Corridors partnership to acquire in fee at least
41.27 35 acres of high-quality priority state and local
41.28 natural areas in the metropolitan area, as
41.29 defined under Minnesota Statutes, section
41.30 473.121, subdivision 2, and portions of the
41.31 surrounding counties. A list of proposed
41.32 acquisitions must be provided as part of the
41.33 required work plan. Land acquired with this
41.34 appropriation must be sufficiently improved
41.35 to meet at least minimum management

42.1 standards, as determined by the commissioner
42.2 of natural resources. Expenditures are limited
42.3 to the identified project corridor areas as
42.4 defined in the work plan. This appropriation
42.5 may not be used to purchase habitable
42.6 residential structures, unless expressly
42.7 approved in the work plan. A list of fee title
42.8 acquisitions must be provided as part of the
42.9 required work plan. This appropriation is
42.10 available until June 30, 2018, by which time
42.11 the project must be completed and final
42.12 products delivered.

42.13 **(g) Metro Conservation Corridors - Phase**
42.14 **VIII Priority Expansion of Minnesota**
42.15 **Valley National Wildlife Refuge**

42.16 \$500,000 the first year is from the trust fund
42.17 to the commissioner of natural resources for
42.18 an agreement with the Minnesota Valley
42.19 National Wildlife Refuge Trust, Inc. for Phase
42.20 VIII of the Metro Conservation Corridors
42.21 partnership to acquire in fee at least 100 acres
42.22 of priority habitat for the Minnesota Valley
42.23 National Wildlife Refuge in the metropolitan
42.24 area, as defined under Minnesota Statutes,
42.25 section 473.121, subdivision 2, and portions
42.26 of the surrounding counties. A list of proposed
42.27 acquisitions must be provided as part of the
42.28 required work plan. Land acquired with this
42.29 appropriation must be sufficiently improved
42.30 to meet at least minimum management
42.31 standards. Expenditures are limited to the
42.32 identified project corridor areas as defined in
42.33 the work plan. This appropriation may not be
42.34 used to purchase habitable residential
42.35 structures, unless expressly approved in the

43.1 work plan. This appropriation is available until
43.2 June 30, 2018, by which time the project must
43.3 be completed and final products delivered.

43.4 **(h) Metro Conservation Corridors - Phase**
43.5 **VIII Wildlife Management Area**
43.6 **Acquisition**

43.7 \$400,000 the first year is from the trust fund
43.8 to the commissioner of natural resources for
43.9 Phase VIII of the Metro Conservation
43.10 Corridors partnership to acquire in fee at least
43.11 82 acres along the lower reaches of the
43.12 Vermillion River in Dakota County within the
43.13 Gores Pool Wildlife Management Area. Land
43.14 acquired with this appropriation must be
43.15 sufficiently improved to meet at least
43.16 minimum management standards. This
43.17 appropriation may not be used to purchase
43.18 habitable residential structures, unless
43.19 expressly approved in the work plan. This
43.20 appropriation is available until June 30, 2018,
43.21 by which time the project must be completed
43.22 and final products delivered.

43.23 **(i) Mesabi Trail Development Soudan to**
43.24 **Ely - Phase II**

43.25 \$1,000,000 the first year is from the trust fund
43.26 to the commissioner of natural resources for
43.27 an agreement with the St. Louis and Lake
43.28 Counties Regional Railroad Authority for the
43.29 right-of-way acquisition, design, and
43.30 construction of segments of the Mesabi Trail,
43.31 totaling approximately seven miles between
43.32 Soudan and Ely. This appropriation is
43.33 available until June 30, 2018, by which time
43.34 the project must be completed and final
43.35 products delivered.

44.1 **(j) Multi-benefit Watershed Scale**

44.2 **Conservation on North Central Lakes**

44.3 \$950,000 the first year is from the trust fund
44.4 to the Board of Water and Soil Resources to
44.5 secure permanent conservation easements on
44.6 at least 480 acres of high-quality habitat in
44.7 Crow Wing and Cass Counties. Of this
44.8 amount, up to \$65,000 must be deposited in a
44.9 conservation easement stewardship account;
44.10 and \$54,000 is for an agreement with the
44.11 Leech Lake Area Watershed Foundation in
44.12 cooperation with Crow Wing County Soil and
44.13 Water Conservation District and Cass County
44.14 Soil and Water Conservation District. Deposits
44.15 into the conservation easement stewardship
44.16 account must be made upon closing on
44.17 conservation easements or at a time otherwise
44.18 approved in the work plan. A list of proposed
44.19 easement acquisitions must be provided as
44.20 part of the required work plan. This
44.21 appropriation is available until June 30, 2018,
44.22 by which time the project must be completed
44.23 and final products delivered.

44.24 **(k) Conservation Easement Assessment and**
44.25 **Valuation System Development**

44.26 \$250,000 the first year is from the trust fund
44.27 to the Board of Regents of the University of
44.28 Minnesota to assess the effectiveness of
44.29 existing conservation easements acquired
44.30 through state expenditures at achieving their
44.31 intended outcomes of public value and
44.32 ecological benefits and to develop a
44.33 standardized, objective conservation easement
44.34 valuation system for guiding future state
44.35 investments in conservation easements to

45.1 ensure the proposed environmental benefits
 45.2 are being achieved in a cost-effective manner.
 45.3 This appropriation is available until June 30,
 45.4 2018, by which time the project must be
 45.5 completed and final products delivered.

45.6 Sec. 6. Laws 2017, chapter 96, section 2, subdivision 8, is amended to read:

45.7 **Subd. 8. Methods to Protect**
 45.8 **or Restore Land, Water, and**
 45.9 **Habitat**

2,729,000

16,554,000

5,000,000

45.10 **(a) Optimizing the Nutrition of Roadside Plants**
 45.11 **for Pollinators**

45.12 \$815,000 the first year is from the trust fund
 45.13 to the Board of Regents of the University of
 45.14 Minnesota in cooperation with the
 45.15 Departments of Agriculture, Natural
 45.16 Resources, and Transportation and the Board
 45.17 of Water and Soil Resources to produce
 45.18 site-specific recommendations for roadside
 45.19 plantings in Minnesota to maximize the
 45.20 nutritional health of native bees and monarch
 45.21 butterflies that rely on roadside habitat
 45.22 corridors. This appropriation is available until
 45.23 June 30, 2020, by which time the project must
 45.24 be completed and final products delivered.

45.25 **(b) Promoting Conservation Biocontrol of**
 45.26 **Beneficial Insects**

45.27 \$400,000 the first year is from the trust fund
 45.28 to the Board of Regents of the University of
 45.29 Minnesota to research integrated pest
 45.30 management strategies, including insecticide
 45.31 alternatives, and overwintering habitat sites
 45.32 to conserve beneficial insects, including bees,
 45.33 butterflies, and predator insects. The integrated
 45.34 pest management strategies will be used to
 45.35 develop best management practices to increase
 45.36 pollinator and beneficial insect diversity and

46.1 abundance in various restored habitats. This
46.2 appropriation is available until June 30, 2020,
46.3 by which time the project must be completed
46.4 and final products delivered.

46.5 **(c) Evaluating the Use of Bison to Restore and**
46.6 **Preserve Savanna Habitat**

46.7 \$388,000 the first year is from the trust fund
46.8 to the Board of Regents of the University of
46.9 Minnesota, Cedar Creek Ecosystem Science
46.10 Reserve, to research combined bison grazing
46.11 and fire management strategies to restore
46.12 Minnesota's oak savanna ecosystems. This
46.13 appropriation is available until June 30, 2020,
46.14 by which time the project must be completed
46.15 and final products delivered.

46.16 **(d) State Park Pollinator Habitat Restoration**

46.17 \$672,000 the first year is from the trust fund
46.18 to the commissioner of natural resources to
46.19 restore at least 520 acres of monarch butterfly
46.20 and other native pollinator habitats in at least
46.21 seven state parks in the Minnesota Prairie
46.22 Conservation Plan core areas and establish
46.23 pollinator plantings and interpretive exhibits
46.24 in at least ten state parks. This appropriation
46.25 is available until June 30, 2021, by which time
46.26 the project must be completed and final
46.27 products delivered.

46.28 **(e) Enhancing Spawning Habitat Restoration in**
46.29 **Minnesota Lakes**

46.30 \$294,000 the first year is from the trust fund
46.31 to the Board of Regents of the University of
46.32 Minnesota, St. Anthony Falls Laboratory, in
46.33 cooperation with the Department of Natural
46.34 Resources to enhance efforts to increase
46.35 natural reproduction of fish in Minnesota lakes
46.36 by assessing wave energy impacts on

47.1 near-shore spawning habitat. This
47.2 appropriation is available until June 30, 2020,
47.3 by which time the project must be completed
47.4 and final products delivered.

47.5 **(f) Prescribed-Fire Management for Roadside**
47.6 **Prairies**

47.7 \$345,000 the first year is from the trust fund
47.8 to the commissioner of transportation to
47.9 enhance the prescribed-fire program to manage
47.10 roadsides to protect and increase biodiversity
47.11 and pollinator habitat. This appropriation is
47.12 available until June 30, 2020, by which time
47.13 the project must be completed and final
47.14 products delivered.

47.15 **(g) Minnesota Bee and Beneficial Species Habitat**
47.16 **Restoration**

47.17 \$732,000 the first year is from the trust fund
47.18 to the commissioner of natural resources for
47.19 an agreement with Pheasants Forever in
47.20 cooperation with the University of Minnesota
47.21 and the Minnesota Honey Producers
47.22 Association to restore approximately 800 acres
47.23 of permanently protected land to enhance bee,
47.24 butterfly, beneficial insect, and grassland bird
47.25 habitats. This appropriation is available until
47.26 June 30, 2021, by which time the project must
47.27 be completed and final products delivered.

47.28 **(h) Mississippi and Vermillion Rivers**
47.29 **Restoration of Prairie, Savanna, and Forest**
47.30 **Habitat - Phase X**

47.31 \$213,000 the first year is from the trust fund
47.32 to the commissioner of natural resources for
47.33 an agreement with Friends of the Mississippi
47.34 River for continued implementation of the
47.35 Metro Conservation Corridors partnership by
47.36 improving at least 80 acres of habitat at
47.37 approximately seven sites along the

48.1 Mississippi River and Vermillion River
48.2 corridors. Expenditures are limited to the
48.3 identified project corridor areas as defined in
48.4 the work plan. A list of proposed restoration
48.5 sites must be provided as part of the required
48.6 work plan. Plant and seed materials must
48.7 follow the Board of Water and Soil Resources'
48.8 native vegetation establishment and
48.9 enhancement guidelines. This appropriation
48.10 is available until June 30, 2020, by which time
48.11 the project must be completed and final
48.12 products delivered.

48.13 **(i) Community Stewardship to Restore Urban**
48.14 **Natural Resources - Phase X**

48.15 \$524,000 the first year is from the trust fund
48.16 to the commissioner of natural resources for
48.17 an agreement with Great River Greening to
48.18 work with volunteers for continued
48.19 implementation of the Metro Conservation
48.20 Corridors partnership to restore approximately
48.21 250 acres of forest, prairie, woodland, wetland,
48.22 and shoreline throughout the greater Twin
48.23 Cities metropolitan area. Expenditures are
48.24 limited to the identified project corridor areas
48.25 as defined in the work plan. A list of proposed
48.26 restoration sites and evaluations must be
48.27 provided as part of the required work plan.
48.28 Plant and seed materials must follow the Board
48.29 of Water and Soil Resources' native vegetation
48.30 establishment and enhancement guidelines.
48.31 This appropriation is available until June 30,
48.32 2020, by which time the project must be
48.33 completed and final products delivered.

48.34 **(j) Economic Assessment of Precision**
48.35 **Conservation and Agriculture**

49.1 \$400,000 the first year is from the trust fund
49.2 to the commissioner of natural resources for
49.3 an agreement with Pheasants Forever to
49.4 demonstrate a new approach to promote
49.5 conservation practices utilizing
49.6 return-on-investment analysis and identifying
49.7 revenue-negative acres on agricultural land to
49.8 assist farmers in implementing conservation
49.9 practices that will provide environmental and
49.10 economic benefits. This appropriation is
49.11 available until June 30, 2020, by which time
49.12 the project must be completed and final
49.13 products delivered.

49.14 **(k) Conservation Reserve Enhancement**
49.15 **Program (CREP) Outreach and Implementation**

49.16 \$6,000,000 the first year is from the trust fund
49.17 to the Board of Water and Soil Resources to
49.18 fund staff at soil and water conservation
49.19 districts to assist landowners participating in
49.20 the federal Conservation Reserve
49.21 Enhancement Program. This appropriation is
49.22 contingent upon receipt of federal funds for
49.23 implementation. This appropriation is
49.24 available until June 30, 2020, by which time
49.25 the project must be completed and final
49.26 products delivered.

49.27 **(l) Conservation Reserve Enhancement Program**
49.28 **(CREP)**

49.29 \$2,729,000 in fiscal year 2017 and \$5,771,000
49.30 the first year and \$5,000,000 the second year
49.31 are from the trust fund to the Board of Water
49.32 and Soil Resources to acquire permanent
49.33 conservation easements and restore land under
49.34 Minnesota Statutes, section 103F.515. Of this
49.35 amount, up to \$2,184,000 is for establishing
49.36 a monitoring and enforcement fund as

50.1 approved in the work plan and subject to
50.2 Minnesota Statutes, section 103B.103. This
50.3 work may be done in cooperation with the
50.4 federal Conservation Reserve Enhancement
50.5 Program. This appropriation is available until
50.6 June 30, 2021, by which time the project must
50.7 be completed and final products delivered.