

SENATE
STATE OF MINNESOTA
NINETIETH SESSION

S.F. No. 550

(SENATE AUTHORS: WESTROM, Dahms, Dziedzic, Tomassoni and Hoffman)

Table with columns: DATE, D-PG, OFFICIAL STATUS. Rows include dates from 02/02/2017 to 05/22/2017 and corresponding bill numbers and actions.

1.1 A bill for an act
1.2 relating to natural resources; appropriating money from environment and natural
1.3 resources trust fund; modifying requirements for receipt of fund money; amending
1.4 Minnesota Statutes 2016, sections 116P.05, subdivision 2; 116P.17, subdivision
1.5 1; proposing coding for new law in Minnesota Statutes, chapter 477A.

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 "2017," "2018," and "2019" used in this act mean
1.12 that the appropriations listed under them are available for the fiscal year ending June 30,
1.13 2017, June 30, 2018, or June 30, 2019, respectively. "The first year" is fiscal year 2018.
1.14 "The second year" is fiscal year 2019. "The biennium" is fiscal years 2018 and 2019.
1.15 Appropriations for fiscal year 2017 are available the day following final enactment.

1.16 APPROPRIATIONS

1.17 Available for the Year

1.18 Ending June 30

1.19 2017 2018 2019

1.20 Sec. 2. MINNESOTA RESOURCES

1.21 Subdivision 1. Total

1.22 Appropriation \$ 8,428,000 \$ 50,733,000 \$ 5,089,000

2.1 The amounts that may be spent for each
 2.2 purpose are specified in the following
 2.3 subdivisions. Appropriations for fiscal years
 2.4 2018 and 2019 are available for two years
 2.5 beginning July 1, 2017, for fiscal year 2018
 2.6 appropriations and beginning July 1, 2018, for
 2.7 fiscal year 2019 appropriations, unless
 2.8 otherwise stated in the appropriation. Any
 2.9 unencumbered balance remaining in the first
 2.10 year does not cancel and is available for the
 2.11 second year or until the end of the
 2.12 appropriation. Appropriations for fiscal year
 2.13 2017 are available until June 30, 2018, unless
 2.14 otherwise stated in the appropriation.

2.15 **Subd. 2. Definition**

2.16 "Trust fund" means the Minnesota
 2.17 environment and natural resources trust fund
 2.18 established under the Minnesota Constitution,
 2.19 article XI, section 14.

2.20 **Subd. 3. Foundational**
 2.21 **Natural Resource Data and**
 2.22 **Information**

4,729,000

7,872,000

89,000

2.23 **(a) County Geologic Atlases - Continuation**

2.24 \$4,729,000 in fiscal year 2017 is from the trust
 2.25 fund to the Board of Regents of the University
 2.26 of Minnesota, Minnesota Geological Survey,
 2.27 to continue acceleration of the production of
 2.28 county geologic atlases for the purpose of
 2.29 sustainable management of surface water and
 2.30 groundwater resources. This appropriation is
 2.31 to complete Part A of county geologic atlases,
 2.32 which focuses on the properties and
 2.33 distribution of earth materials in order to
 2.34 define aquifer boundaries and the connection
 2.35 of aquifers to the land surface and surface
 2.36 water resources. This appropriation is

3.1 available until June 30, 2020, by which time
3.2 the project must be completed and final
3.3 products delivered.

3.4 **(b) Assessment of Public Benefits of Protecting**
3.5 **Source Water**

3.6 \$320,000 the first year is from the trust fund
3.7 to the Board of Regents of the University of
3.8 Minnesota to map and quantify source water
3.9 risks, determine ecosystem service valuation
3.10 of clean water, and provide analyses of equity
3.11 and community capacity to improve decisions
3.12 about the protection and management of
3.13 groundwater and surface water. This
3.14 appropriation is available until June 30, 2020,
3.15 by which time the project must be completed
3.16 and final products delivered.

3.17 **(c) Preserving Minnesota Prairie Plant Diversity**
3.18 **- Phase II**

3.19 \$900,000 the first year is from the trust fund
3.20 to the Board of Regents of the University of
3.21 Minnesota to continue collecting and
3.22 preserving germplasm of plants throughout
3.23 Minnesota's prairie region, study the microbial
3.24 effects that promote plant health, analyze local
3.25 adaptation, and evaluate the adaptive capacity
3.26 of prairie plant populations. This appropriation
3.27 is available until June 30, 2020, by which time
3.28 the project must be completed and final
3.29 products delivered.

3.30 **(d) Minnesota Biological Survey - Continuation**

3.31 \$2,900,000 the first year is from the trust fund
3.32 to the commissioner of natural resources for
3.33 continuation of the Minnesota biological
3.34 survey to provide a foundation for conserving
3.35 biological diversity by systematically
3.36 collecting, interpreting, monitoring, and

4.1 delivering data on plant and animal
4.2 distribution and ecology, native plant
4.3 communities, and functional landscapes. This
4.4 appropriation is available until June 30, 2020,
4.5 by which time the project must be completed
4.6 and final products delivered.

4.7 **(e) Minnesota Wildflowers Online Botanical**
4.8 **Reference - Phase II**

4.9 \$270,000 the first year is from the trust fund
4.10 to the commissioner of natural resources for
4.11 an agreement with Minnesota Wildflowers
4.12 Information to continue surveying and imaging
4.13 plant species and publishing species profiles
4.14 for a plant identification reference Web site
4.15 available to the public and land managers.
4.16 Images acquired and information compiled
4.17 using these funds are for purposes of public
4.18 information available on a Web site. If the
4.19 organization is no longer able to maintain the
4.20 Web site, the organization must work with the
4.21 state and the University of Minnesota, Bell
4.22 Museum of Natural History, to ensure the
4.23 materials remain publicly available on the
4.24 Web. This appropriation is available until June
4.25 30, 2020, by which time the project must be
4.26 completed and final products delivered.

4.27 **(f) Assessment of Microbes for Improving Wild**
4.28 **Rice Restoration**

4.29 \$334,000 the first year is from the trust fund
4.30 to the Board of Regents of the University of
4.31 Minnesota, Natural Resources Research
4.32 Institute, to evaluate the microbial
4.33 communities and nutrients associated with
4.34 wild rice and competing vegetation, with the
4.35 goal of enhancing restoration success to
4.36 increase the abundance of wild rice. This

5.1 appropriation is available until June 30, 2020,
5.2 by which time the project must be completed
5.3 and final products delivered.

5.4 **(g) Drainage Records Modernization Cost Share**
5.5 **- Phase II**

5.6 \$540,000 the first year is from the trust fund
5.7 to the Board of Water and Soil Resources to
5.8 facilitate statewide modernization of public
5.9 drainage records under Minnesota Statutes,
5.10 chapter 103E, and integrate new specifications
5.11 into existing drainage records modernization
5.12 guidelines through matching cost-share grants
5.13 to drainage authorities. This appropriation is
5.14 available until June 30, 2020, by which time
5.15 the project must be completed and final
5.16 products delivered.

5.17 **(h) Groundwater Contamination Mapping**

5.18 \$400,000 the first year is from the trust fund
5.19 to the commissioner of the Pollution Control
5.20 Agency to develop a Web-based interactive
5.21 map of groundwater contamination to improve
5.22 protection of groundwater resources for
5.23 drinking water. This appropriation is available
5.24 until June 30, 2020, by which time the project
5.25 must be completed and final products
5.26 delivered.

5.27 **(i) Landslide Susceptibility, Mapping, and**
5.28 **Management Tools**

5.29 \$500,000 the first year is from the trust fund
5.30 to the Board of Regents of the University of
5.31 Minnesota to create landslide susceptibility
5.32 maps using a landslide inventory and
5.33 quantitative analysis of LiDAR to provide
5.34 tools and data for mitigation and restoration
5.35 to reduce impacts on water resources. This
5.36 appropriation is available until June 30, 2020,

6.1 by which time the project must be completed
6.2 and final products delivered.

6.3 **(j) Moose Calf Surveys and Monitoring**

6.4 \$348,000 the first year is from the trust fund
6.5 to the Board of Regents of the University of
6.6 Minnesota to assess the use of unmanned
6.7 aerial vehicles in natural resource monitoring
6.8 of moose populations and changes in
6.9 ecosystems.

6.10 **(k) Cedar Creek Natural Area Wolf**
6.11 **Recolonization Assessment**

6.12 \$398,000 the first year is from the trust fund
6.13 to the Board of Regents of the University of
6.14 Minnesota, Cedar Creek Ecosystem Science
6.15 Reserve, to assess wolf recolonization impacts
6.16 on wildlife, biodiversity, and natural resources
6.17 and provide educational opportunities at Cedar
6.18 Creek Ecosystem Science Reserve. This
6.19 appropriation is available until June 30, 2020,
6.20 by which time the project must be completed
6.21 and final products delivered.

6.22 **(l) Effects of Wolf Predation on Beaver, Moose,**
6.23 **and Deer**

6.24 \$293,000 the first year is from the trust fund
6.25 to the commissioner of natural resources for
6.26 an agreement with Voyageurs National Park
6.27 to assess the effects of wolf predation on
6.28 beaver, moose, and deer in the Border Lakes
6.29 region. This appropriation is available until
6.30 June 30, 2020, by which time the project must
6.31 be completed and final products delivered.

6.32 **(m) Mapping Taxonomy and Environmental**
6.33 **Toxicology of Minnesota Freshwater Sponges**

6.34 \$258,000 the first year is from the trust fund
6.35 to the Board of Regents of the University of
6.36 Minnesota, Crookston, to determine freshwater

7.1 sponge distribution, identify and quantify
7.2 accumulated contaminants, and provide
7.3 educational research opportunities to
7.4 undergraduate students. This appropriation is
7.5 available until June 30, 2020, by which time
7.6 the project must be completed and final
7.7 products delivered.

7.8 **(n) Pollinator Research and Outreach**

7.9 \$411,000 the first year and \$89,000 the second
7.10 year are from the trust fund to the Board of
7.11 Regents of the University of Minnesota for
7.12 pollinator research and outreach, including,
7.13 but not limited to, science-based best practices
7.14 and the identification and establishment of
7.15 habitat beneficial to pollinators. This
7.16 appropriation is available until June 30, 2020,
7.17 by which time the project must be completed
7.18 and final products delivered.

7.19 Subd. 4. Water Resources -0- 3,175,000 -0-

7.20 **(a) Assessment of Household Chemicals and**
7.21 **Herbicides in Rivers and Lakes**

7.22 \$236,000 the first year is from the trust fund
7.23 to the Board of Regents of the University of
7.24 Minnesota to quantify environmental levels
7.25 of household chemical and herbicide
7.26 ingredients in rivers and lakes and assess their
7.27 potential to form toxic by-products.

7.28 **(b) Wastewater Nitrogen Removal Technology**
7.29 **to Protect Water Quality**

7.30 \$450,000 the first year is from the trust fund
7.31 to the Board of Regents of the University of
7.32 Minnesota to develop a technology for
7.33 inexpensive low-energy nitrogen removal in
7.34 wastewater. This appropriation is subject to
7.35 Minnesota Statutes, section 116P.10. This
7.36 appropriation is available until June 30, 2020,

8.1 by which time the project must be completed
8.2 and final products delivered.

8.3 **(c) Rearing Native Mussels for Reintroduction**
8.4 **and Expanding Water Quality Awareness**

8.5 \$591,000 the first year is from the trust fund
8.6 to the Minnesota Zoological Garden in
8.7 cooperation with the Department of Natural
8.8 Resources to accelerate the reintroduction of
8.9 native mussels into Minnesota rivers and
8.10 streams through expanded mussel rearing,
8.11 research, and statewide educational activities
8.12 promoting mussel conservation and water
8.13 quality. This appropriation is available until
8.14 June 30, 2020, by which time the project must
8.15 be completed and final products delivered.

8.16 **(d) Water Quality Monitoring in Southeastern**
8.17 **Minnesota Trout Streams**

8.18 \$500,000 the first year is from the trust fund
8.19 to the Board of Trustees of Minnesota State
8.20 Colleges and Universities, Winona State
8.21 University, to develop a system of biological
8.22 monitoring for water quality protection of trout
8.23 streams in southeastern Minnesota. This
8.24 appropriation is available until June 30, 2020,
8.25 by which time the project must be completed
8.26 and final products delivered.

8.27 **(e) Reassessing Toxicity of Petrochemical Spills**
8.28 **on Groundwater and Surface Waters**

8.29 \$300,000 the first year is from the trust fund
8.30 to the commissioner of natural resources for
8.31 an agreement with the University of St.
8.32 Thomas to reassess long-term effects of oil
8.33 spills through the analysis of chemical
8.34 parameters related to oil degradation and
8.35 evaluate the impacts on aquatic species,
8.36 groundwater, and surface waters. This

9.1 appropriation is available until June 30, 2021,
9.2 by which time the project must be completed
9.3 and final products delivered.

9.4 **(f) Assessment of Water Quality for Reuse**

9.5 \$148,000 the first year is from the trust fund
9.6 to the Board of Regents of the University of
9.7 Minnesota to collect and analyze pathogen
9.8 data for evaluation of water reuse in order to
9.9 maximize water reuse and protect groundwater
9.10 and surface water quality.

9.11 **(g) Identification of Chemicals of Emerging**
9.12 **Concern in Minnesota Fish**

9.13 \$400,000 the first year is from the trust fund
9.14 to the commissioner of natural resources for
9.15 an agreement with the Grand Portage Band of
9.16 Lake Superior Chippewa to identify chemicals
9.17 of emerging concern and metals in fish, water,
9.18 and sediments from approximately 30 water
9.19 bodies in northeastern Minnesota used for
9.20 subsistence harvest and recreation. This
9.21 appropriation is available until June 30, 2020,
9.22 by which time the project must be completed
9.23 and final products delivered.

9.24 **(h) Techniques for Water Storage Estimates in**
9.25 **Central Minnesota**

9.26 \$250,000 the first year is from the trust fund
9.27 to the Board of Regents of the University of
9.28 Minnesota to improve water storage estimates
9.29 in groundwater, soil moisture, streams, lakes,
9.30 and wetlands through integration of satellite
9.31 monitoring and ground-based measurements
9.32 in central Minnesota. This appropriation is
9.33 available until June 30, 2020, by which time
9.34 the project must be completed and final
9.35 products delivered.

10.1 **(i) Assessing Release of Mercury and Sulfur on**
 10.2 **Aquatic Communities**

10.3 \$300,000 the first year is from the trust fund
 10.4 to the Board of Regents of the University of
 10.5 Minnesota to determine the effects of
 10.6 increased temperatures on the release of
 10.7 mercury and sulfur from Minnesota peatlands
 10.8 to predict impacts on aquatic communities and
 10.9 fish health. This appropriation is available
 10.10 until June 30, 2020, by which time the project
 10.11 must be completed and final products
 10.12 delivered.

10.13 **Subd. 5. Environmental**
 10.14 **Education**

-0-

4,421,000-0-

10.15 **(a) Connecting Youth to Minnesota Waterways**
 10.16 **through Outdoor Classrooms**

10.17 \$1,200,000 the first year is from the trust fund
 10.18 to the commissioner of natural resources for
 10.19 an agreement with Wilderness Inquiry to
 10.20 provide place-based environmental education
 10.21 science water experiences to approximately
 10.22 20,000 middle- and high-school students. This
 10.23 appropriation is available until June 30, 2020,
 10.24 by which time the project must be completed
 10.25 and final products delivered.

10.26 **(b) Youth Convening Minnesota - Phase II**

10.27 \$300,000 the first year is from the trust fund
 10.28 to the commissioner of natural resources for
 10.29 an agreement with Climate Generation: A Will
 10.30 Steger Legacy to plan and conduct forums,
 10.31 workshops, and training for youth on
 10.32 Minnesota's climate and its impact on natural
 10.33 resources. This appropriation is available until
 10.34 June 30, 2020, by which time the project must
 10.35 be completed and final products delivered.

10.36 **(c) Increasing Diversity in Environmental**
 10.37 **Careers**

11.1 \$1,487,000 the first year is from the trust fund
11.2 to the commissioner of natural resources in
11.3 cooperation with Conservation Corps
11.4 Minnesota and Iowa to encourage a diversity
11.5 of students to pursue careers in environment
11.6 and natural resources through internships and
11.7 mentorships with the Department of Natural
11.8 Resources, the Board of Water and Soil
11.9 Resources, and the Pollution Control Agency.
11.10 This appropriation is available until June 30,
11.11 2022, by which time the project must be
11.12 completed and final products delivered.

11.13 **(d) Interactive Water Resource Programs for**
11.14 **Planetariums in Minnesota**

11.15 \$500,000 the first year is from the trust fund
11.16 to the Board of Regents of the University of
11.17 Minnesota, Bell Museum of Natural History,
11.18 to create an interactive planetarium program
11.19 on water resources, reaching approximately
11.20 400,000 citizens statewide through the Bell
11.21 Museum Planetarium, St. Paul Public Schools,
11.22 Mayo High School, Mankato East High
11.23 School, Southwest Minnesota State University,
11.24 Minnesota State University Moorhead, and
11.25 University of Minnesota Duluth. This
11.26 appropriation is available until June 30, 2022,
11.27 by which time the project must be completed
11.28 and final products delivered.

11.29 **(e) Expanding Raptor Center Online Education**

11.30 \$270,000 the first year is from the trust fund
11.31 to the Board of Regents of the University of
11.32 Minnesota, Raptor Center, to provide
11.33 environmental education for approximately
11.34 15,000 middle-school students and 600
11.35 teachers, combining classroom learning and
11.36 outdoor experiences with technology,

12.1 scientific investigation of birds, and
12.2 conservation projects. This appropriation is
12.3 available until June 30, 2022, by which time
12.4 the project must be completed and final
12.5 products delivered.

12.6 **(f) Local Planning and Implementation Efforts**
12.7 **for Bird Habitat**

12.8 \$280,000 the first year is from the trust fund
12.9 to the commissioner of natural resources for
12.10 an agreement with the National Audubon
12.11 Society, Minnesota office, to engage
12.12 approximately 60 communities and 400,000
12.13 citizens in bird habitat improvement through
12.14 local planning and implementation efforts
12.15 using the National Audubon Bird City
12.16 program. This appropriation is available until
12.17 June 30, 2020, by which time the project must
12.18 be completed and final products delivered.

12.19 **(g) Developing Youth Watershed Stewardship**
12.20 **in Northwest Minnesota**

12.21 \$121,000 the first year is from the trust fund
12.22 to the commissioner of natural resources for
12.23 an agreement with the Headwaters Science
12.24 Center to accelerate a multiyear environmental
12.25 science club for middle-school students
12.26 focused on water quality, watershed
12.27 evaluation, and aquatic invasive species in
12.28 northwestern Minnesota. This appropriation
12.29 is available until June 30, 2020, by which time
12.30 the project must be completed and final
12.31 products delivered.

12.32 **(h) Increasing Residential Environmental**
12.33 **Learning Center Opportunities**

12.34 \$130,000 the first year is from the trust fund
12.35 to the commissioner of natural resources for
12.36 an agreement with the Audubon Center of the

13.1 North Woods to provide scholarship
 13.2 opportunities for a minimum of 1,000 students
 13.3 that are not currently served through other
 13.4 residential environmental education learning
 13.5 centers. This appropriation is available until
 13.6 June 30, 2020, by which time the project must
 13.7 be completed and final products delivered.

13.8 **(i) Workshops and Outreach to Protect Raptors**
 13.9 **from Lead Poisoning**

13.10 \$133,000 the first year is from the trust fund
 13.11 to the Board of Regents of the University of
 13.12 Minnesota, Raptor Center, in cooperation with
 13.13 the Department of Natural Resources and other
 13.14 conservation partners to provide hunters with
 13.15 outreach and workshops on alternatives to lead
 13.16 hunting ammunition, including copper
 13.17 ammunition as an alternative, and to promote
 13.18 voluntary selection of nontoxic ammunition
 13.19 to protect raptors and other wildlife in
 13.20 Minnesota from accidental lead poisoning
 13.21 caused by ingestion of ammunition fragments.

13.22 **Subd. 6. Aquatic and**

13.23 **Terrestrial Invasive Species** 2,700,000

2,021,000

-0-

13.24 **(a) Aquatic Invasive Species Research Center -**
 13.25 **Phase II**

13.26 \$2,700,000 in fiscal year 2017 is from the trust
 13.27 fund to the Board of Regents of the University
 13.28 of Minnesota to support the Minnesota
 13.29 Aquatic Invasive Species Research Center in
 13.30 finding solutions to Minnesota's aquatic
 13.31 invasive species problems through research,
 13.32 control, prevention, and early detection of
 13.33 existing and emerging aquatic invasive species
 13.34 threats. This appropriation is available until
 13.35 June 30, 2021, by which time the project must
 13.36 be completed and final products delivered.

13.37 **(b) Emerald Ash Borer Biocontrol - Phase III**

14.1 \$729,000 the first year is from the trust fund
 14.2 to the commissioner of agriculture in
 14.3 cooperation with the Board of Regents of the
 14.4 University of Minnesota to implement
 14.5 biocontrol of emerald ash borer using a newly
 14.6 approved parasitic wasp, assess the impact of
 14.7 the statewide program, and engage citizen
 14.8 volunteers. This appropriation is available
 14.9 until June 30, 2020, by which time the project
 14.10 must be completed and final products
 14.11 delivered.

14.12 **(c) Invasive Bighead and Silver Carp and Native**
 14.13 **Fish Evaluation - Phase II**

14.14 \$500,000 the first year is from the trust fund
 14.15 to the commissioner of natural resources to
 14.16 continue invasive bighead and silver carp
 14.17 monitoring in the Mississippi River and
 14.18 tributaries through advanced acoustic
 14.19 telemetry and assess food chains to determine
 14.20 how native species might prevent invasive
 14.21 bighead and silver carp establishment. This
 14.22 appropriation is available until June 30, 2020,
 14.23 by which time the project must be completed
 14.24 and final products delivered.

14.25 **(d) Adapting Stream Barriers to Remove**
 14.26 **Common Carp**

14.27 \$301,000 the first year is from the trust fund
 14.28 to the Board of Regents of the University of
 14.29 Minnesota to conduct field tests at existing
 14.30 barrier sites and laboratory experiments to
 14.31 adapt a technology to remove common carp
 14.32 from streams during carp spawning migrations
 14.33 in Minnesota.

14.34 **(e) Tactical Invasive Plant Management Plan**
 14.35 **Development**

15.1 \$296,000 the first year is from the trust fund
 15.2 to the commissioner of agriculture in
 15.3 cooperation with the Board of Regents of the
 15.4 University of Minnesota to develop regional
 15.5 priorities and an interagency action plan for
 15.6 invasive plant management to protect and
 15.7 promote habitat and native species. This
 15.8 appropriation is available until June 30, 2020,
 15.9 by which time the project must be completed
 15.10 and final products delivered.

15.11 **(f) Maximize Value of Water Impoundments to**
 15.12 **Wildlife**

15.13 \$195,000 the first year is from the trust fund
 15.14 to the commissioner of natural resources for
 15.15 an agreement with the National Audubon
 15.16 Society, Minnesota office, to control invasive
 15.17 hybrid cattails in water impoundments to
 15.18 improve habitat quality for migrating and
 15.19 breeding birds. This appropriation is available
 15.20 until June 30, 2020, by which time the project
 15.21 must be completed and final products
 15.22 delivered.

15.23 **Subd. 7. Air Quality, Climate**
 15.24 **Change, and Renewable**
 15.25 **Energy**

-0-

4,738,000-0-

15.26 **(a) Solar Cells Manufacturing Research**

15.27 \$388,000 the first year is from the trust fund
 15.28 to the Board of Regents of the University of
 15.29 Minnesota to develop inexpensive,
 15.30 high-efficiency solar energy by simple
 15.31 roll-to-roll advanced manufacturing
 15.32 technology using Perovskite, a new
 15.33 photovoltaic material. This appropriation is
 15.34 subject to Minnesota Statutes, section 116P.10.
 15.35 This appropriation is available until June 30,
 15.36 2020, by which time the project must be
 15.37 completed and final products delivered.

16.1 **(b) Community-Scale Energy Storage Guide for**
16.2 **Renewable Energy**

16.3 \$500,000 the first year is from the trust fund
16.4 to the Board of Regents of the University of
16.5 Minnesota to create a research-based energy
16.6 storage guide for community-scale sites and
16.7 implement three geographically dispersed
16.8 battery storage demonstration projects. This
16.9 appropriation is available until June 30, 2020,
16.10 by which time the project must be completed
16.11 and final products delivered.

16.12 **(c) Extraction of Solar Thermal Energy in**
16.13 **Minnesota**

16.14 \$250,000 the first year is from the trust fund
16.15 to the Board of Regents of the University of
16.16 Minnesota to develop new solar particle
16.17 receivers as a low-cost, high-efficiency, and
16.18 clean technology to absorb, store, and utilize
16.19 solar thermal energy. This appropriation is
16.20 subject to Minnesota Statutes, section 116P.10.
16.21 This appropriation is available until June 30,
16.22 2020, by which time the project must be
16.23 completed and final products delivered.

16.24 **(d) Assessment of Urban Air Quality**

16.25 \$700,000 the first year is from the trust fund
16.26 to the commissioner of the Pollution Control
16.27 Agency to set up and operate a network of 250
16.28 air pollution sensors at 50 sites to monitor fine
16.29 particles, ozone, nitrogen oxides, sulfur
16.30 dioxide, and carbon monoxide in each zip code
16.31 for the cities of Minneapolis and St. Paul to
16.32 assess variability of urban air pollution. This
16.33 appropriation is available until June 30, 2020,
16.34 by which time the project must be completed
16.35 and final products delivered.

17.1 **(e) Generation, Storage, and Utilization of Solar**
17.2 **Energy**

17.3 \$500,000 the first year is from the trust fund
17.4 to the Board of Regents of the University of
17.5 Minnesota, West Central Research and
17.6 Outreach Center, Morris, to develop and
17.7 demonstrate an integrated facility to generate
17.8 electricity, shade dairy cattle, and provide
17.9 energy storage and utilization from solar
17.10 technologies at the West Central Research and
17.11 Outreach Center, Morris. This appropriation
17.12 is available until June 30, 2020, by which time
17.13 the project must be completed and final
17.14 products delivered.

17.15 **(f) District Heating with Renewable Biomass at**
17.16 **Camp Ripley Training Center**

17.17 \$1,000,000 the first year is from the trust fund
17.18 to the commissioner of military affairs to
17.19 install a 5,000,000-BTU centralized biomass
17.20 boiler system utilizing the forestry
17.21 management at Camp Ripley. This
17.22 appropriation must be matched by at least
17.23 \$900,000 of nonstate money and must be
17.24 committed by December 31, 2017. This
17.25 appropriation is available until June 30, 2020,
17.26 by which time the project must be completed
17.27 and final products delivered.

17.28 **(g) Geotargeted Distributed Clean Energy**
17.29 **Initiative**

17.30 \$800,000 the first year is from the trust fund
17.31 to the commissioner of natural resources for
17.32 an agreement with the Center for Energy and
17.33 Environment. Of this amount, \$600,000 is for
17.34 analysis of community-distributed clean
17.35 energy investments as alternatives to utility
17.36 capital investments for transmission and

18.1 distribution upgrades to meet forecasted
 18.2 electrical loads, and \$200,000 is to conduct
 18.3 pilot programs using energy efficiency and
 18.4 other distributed energy resources to achieve
 18.5 forecasted electric energy loads in
 18.6 communities. The appropriation for pilot
 18.7 programs is contingent on a \$200,000 match
 18.8 of an equal or greater amount of nonstate
 18.9 money. This appropriation is available until
 18.10 June 30, 2020, by which time the project must
 18.11 be completed and final products delivered.

18.12 **(h) Develop Solar-Powered Robots for Weed**
 18.13 **Control in Agricultural Fields**

18.14 \$600,000 the first year is from the trust fund
 18.15 to the Board of Regents of the University of
 18.16 Minnesota, West Central Research and
 18.17 Outreach Center, Morris, to develop and test
 18.18 solar-powered robots to manage weeds in
 18.19 pastures as a means to reduce herbicide use.
 18.20 This appropriation is subject to Minnesota
 18.21 Statutes, section 116P.10. This appropriation
 18.22 is available until June 30, 2020, by which time
 18.23 the project must be completed and final
 18.24 products delivered.

18.25 **Subd. 8. Methods to Protect**
 18.26 **or Restore Land, Water, and**
 18.27 **Habitat**

-0-

10,808,000

5,000,000

18.28 **(a) Optimizing the Nutrition of Roadside Plants**
 18.29 **for Pollinators**

18.30 \$815,000 the first year is from the trust fund
 18.31 to the Board of Regents of the University of
 18.32 Minnesota in cooperation with the
 18.33 Departments of Agriculture, Natural
 18.34 Resources, and Transportation and the Board
 18.35 of Water and Soil Resources to produce
 18.36 site-specific recommendations for roadside
 18.37 plantings in Minnesota to maximize the

19.1 nutritional health of native bees and monarch
 19.2 butterflies that rely on roadside habitat
 19.3 corridors. This appropriation is available until
 19.4 June 30, 2020, by which time the project must
 19.5 be completed and final products delivered.

19.6 **(b) Promoting Conservation Biocontrol of**
 19.7 **Beneficial Insects**

19.8 \$400,000 the first year is from the trust fund
 19.9 to the Board of Regents of the University of
 19.10 Minnesota to research integrated pest
 19.11 management strategies, including insecticide
 19.12 alternatives, and overwintering habitat sites
 19.13 to conserve beneficial insects, including bees,
 19.14 butterflies, and predator insects. The integrated
 19.15 pest management strategies will be used to
 19.16 develop best management practices to increase
 19.17 pollinator and beneficial insect diversity and
 19.18 abundance in various restored habitats. This
 19.19 appropriation is available until June 30, 2020,
 19.20 by which time the project must be completed
 19.21 and final products delivered.

19.22 **(c) Evaluating the Use of Bison to Restore and**
 19.23 **Preserve Savanna Habitat**

19.24 \$388,000 the first year is from the trust fund
 19.25 to the Board of Regents of the University of
 19.26 Minnesota, Cedar Creek Ecosystem Science
 19.27 Reserve, to research combined bison grazing
 19.28 and fire management strategies to restore
 19.29 Minnesota's oak savanna ecosystems. This
 19.30 appropriation is available until June 30, 2020,
 19.31 by which time the project must be completed
 19.32 and final products delivered.

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

19.34 \$672,000 the first year is from the trust fund
 19.35 to the commissioner of natural resources to
 19.36 restore at least 520 acres of monarch butterfly

20.1 and other native pollinator habitats in at least
20.2 seven state parks in the Minnesota Prairie
20.3 Conservation Plan core areas and establish
20.4 pollinator plantings and interpretive exhibits
20.5 in at least ten state parks. This appropriation
20.6 is available until June 30, 2021, by which time
20.7 the project must be completed and final
20.8 products delivered.

20.9 **(e) Enhancing Spawning Habitat Restoration in**
20.10 **Minnesota Lakes**

20.11 \$294,000 the first year is from the trust fund
20.12 to the Board of Regents of the University of
20.13 Minnesota, St. Anthony Falls Laboratory, in
20.14 cooperation with the Department of Natural
20.15 Resources to enhance efforts to increase
20.16 natural reproduction of fish in Minnesota lakes
20.17 by assessing wave energy impacts on
20.18 near-shore spawning habitat. This
20.19 appropriation is available until June 30, 2020,
20.20 by which time the project must be completed
20.21 and final products delivered.

20.22 **(f) Prescribed-Fire Management for Roadside**
20.23 **Prairies**

20.24 \$345,000 the first year is from the trust fund
20.25 to the commissioner of transportation to
20.26 enhance the prescribed-fire program to manage
20.27 roadsides to protect and increase biodiversity
20.28 and pollinator habitat. This appropriation is
20.29 available until June 30, 2020, by which time
20.30 the project must be completed and final
20.31 products delivered.

20.32 **(g) Minnesota Bee and Beneficial Species Habitat**
20.33 **Restoration**

20.34 \$732,000 the first year is from the trust fund
20.35 to the commissioner of natural resources for
20.36 an agreement with Pheasants Forever in

21.1 cooperation with the University of Minnesota
21.2 and the Minnesota Honey Producers
21.3 Association to restore approximately 800 acres
21.4 of permanently protected land to enhance bee,
21.5 butterfly, beneficial insect, and grassland bird
21.6 habitats. This appropriation is available until
21.7 June 30, 2021, by which time the project must
21.8 be completed and final products delivered.

21.9 **(h) Mississippi and Vermillion Rivers**
21.10 **Restoration of Prairie, Savanna, and Forest**
21.11 **Habitat - Phase X**

21.12 \$213,000 the first year is from the trust fund
21.13 to the commissioner of natural resources for
21.14 an agreement with Friends of the Mississippi
21.15 River for continued implementation of the
21.16 Metro Conservation Corridors partnership by
21.17 improving at least 80 acres of habitat at
21.18 approximately seven sites along the
21.19 Mississippi River and Vermillion River
21.20 corridors. Expenditures are limited to the
21.21 identified project corridor areas as defined in
21.22 the work plan. A list of proposed restoration
21.23 sites must be provided as part of the required
21.24 work plan. Plant and seed materials must
21.25 follow the Board of Water and Soil Resources'
21.26 native vegetation establishment and
21.27 enhancement guidelines. This appropriation
21.28 is available until June 30, 2020, by which time
21.29 the project must be completed and final
21.30 products delivered.

21.31 **(i) Community Stewardship to Restore Urban**
21.32 **Natural Resources - Phase X**

21.33 \$524,000 the first year is from the trust fund
21.34 to the commissioner of natural resources for
21.35 an agreement with Great River Greening to
21.36 work with volunteers for continued
21.37 implementation of the Metro Conservation

22.1 Corridors partnership to restore approximately
22.2 250 acres of forest, prairie, woodland, wetland,
22.3 and shoreline throughout the greater Twin
22.4 Cities metropolitan area. Expenditures are
22.5 limited to the identified project corridor areas
22.6 as defined in the work plan. A list of proposed
22.7 restoration sites and evaluations must be
22.8 provided as part of the required work plan.
22.9 Plant and seed materials must follow the Board
22.10 of Water and Soil Resources' native vegetation
22.11 establishment and enhancement guidelines.
22.12 This appropriation is available until June 30,
22.13 2020, by which time the project must be
22.14 completed and final products delivered.

22.15 **(j) Economic Assessment of Precision**
22.16 **Conservation and Agriculture**

22.17 \$400,000 the first year is from the trust fund
22.18 to the commissioner of natural resources for
22.19 an agreement with Pheasants Forever to
22.20 demonstrate a new approach to promote
22.21 conservation practices utilizing
22.22 return-on-investment analysis and identifying
22.23 revenue-negative acres on agricultural land to
22.24 assist farmers in implementing conservation
22.25 practices that will provide environmental and
22.26 economic benefits. This appropriation is
22.27 available until June 30, 2020, by which time
22.28 the project must be completed and final
22.29 products delivered.

22.30 **(k) Mississippi River Habitat Restoration**
22.31 **Planning at Halls Island**

22.32 \$25,000 the first year is from the trust fund to
22.33 the commissioner of natural resources for an
22.34 agreement with the Minneapolis Park and
22.35 Recreation Board to develop a habitat
22.36 restoration plan to guide the development,

23.1 engineering, and construction of Halls Island
 23.2 in the Mississippi River. The plan must be
 23.3 coordinated with the Department of Natural
 23.4 Resources and the United States Army Corps
 23.5 of Engineers. This appropriation is available
 23.6 until June 30, 2022, by which time the project
 23.7 must be completed and final products
 23.8 delivered.

23.9 **(l) Conservation Reserve Enhancement Program**
 23.10 **(CREP) Outreach and Implementation**

23.11 \$1,000,000 the first year and \$5,000,000 the
 23.12 second year are from the trust fund to the
 23.13 Board of Water and Soil Resources to fund
 23.14 staff at soil and water conservation districts
 23.15 to assist landowners participating in the federal
 23.16 Conservation Reserve Enhancement Program.
 23.17 This appropriation is contingent upon receipt
 23.18 of federal funds for implementation. This
 23.19 appropriation is available until June 30, 2020,
 23.20 by which time the project must be completed
 23.21 and final products delivered.

23.22 **(m) Riparian Protection Aid**

23.23 \$5,000,000 the first year is from the trust fund
 23.24 to the commissioner of revenue for riparian
 23.25 protection aid payments under Minnesota
 23.26 Statutes, section 477A.21.

23.27 **Subd. 9. Land Acquisition,**
 23.28 **Habitat, and Recreation**

999,000

16,358,000

-0-

23.29 **(a) Metropolitan Regional Parks System Land**
 23.30 **Acquisition**

23.31 \$1,500,000 the first year is from the trust fund
 23.32 to the Metropolitan Council for grants to
 23.33 acquire approximately 197 acres of land within
 23.34 the approved park boundaries of the
 23.35 metropolitan regional park system. This
 23.36 appropriation may not be used to purchase

24.1 habitable residential structures. A list of
 24.2 proposed fee title acquisitions must be
 24.3 provided as part of the required work plan.
 24.4 This appropriation must be matched by at least
 24.5 40 percent of nonstate money that must be
 24.6 committed by December 31, 2017. This
 24.7 appropriation is available until June 30, 2020,
 24.8 by which time the project must be completed
 24.9 and final products delivered.

24.10 **(b) Scientific and Natural Areas Acquisition and**
 24.11 **Restoration, Citizen Science, and Engagement**

24.12 \$4,500,000 the first year is from the trust fund
 24.13 to the commissioner of natural resources to
 24.14 acquire at least 250 acres of land with
 24.15 high-quality native plant communities and rare
 24.16 features to be established as scientific and
 24.17 natural areas as provided in Minnesota
 24.18 Statutes, section 86A.05, subdivision 5, restore
 24.19 and improve at least 1,000 acres of scientific
 24.20 and natural areas, and provide technical
 24.21 assistance and outreach, including site steward
 24.22 events. At least one-third of the appropriation
 24.23 must be spent on restoration activities. A list
 24.24 of proposed acquisitions and restorations must
 24.25 be provided as part of the required work plan.
 24.26 Land acquired with this appropriation must
 24.27 be sufficiently improved to meet at least
 24.28 minimum management standards, as
 24.29 determined by the commissioner of natural
 24.30 resources. When feasible, consideration must
 24.31 be given to accommodate trails on lands
 24.32 acquired. This appropriation is available until
 24.33 June 30, 2020, by which time the project must
 24.34 be completed and final products delivered.

24.35 **(c) Minnesota State Parks and State Trails Land**
 24.36 **Acquisition**

25.1 \$1,500,000 the first year is from the trust fund
 25.2 to the commissioner of natural resources to
 25.3 acquire approximately 373 acres from willing
 25.4 sellers for authorized state trails and critical
 25.5 parcels within the statutory boundaries of state
 25.6 parks. State park land acquired with this
 25.7 appropriation must be sufficiently improved
 25.8 to meet at least minimum management
 25.9 standards, as determined by the commissioner
 25.10 of natural resources. A list of proposed
 25.11 acquisitions must be provided as part of the
 25.12 required work plan. This appropriation is
 25.13 available until June 30, 2020, by which time
 25.14 the project must be completed and final
 25.15 products delivered.

25.16 **(d) Minnesota State Trails Acquisition,**
 25.17 **Development, and Enhancement**

25.18 \$999,000 in fiscal year 2017 and \$39,000 the
 25.19 first year are from the trust fund to the
 25.20 commissioner of natural resources for state
 25.21 trail acquisition, development, and
 25.22 enhancement in southern Minnesota. A
 25.23 proposed list of trail projects on authorized
 25.24 state trails must be provided as part of the
 25.25 required work plan. This appropriation is
 25.26 available until June 30, 2020, by which time
 25.27 the project must be completed and final
 25.28 products delivered.

25.29 **(e) Native Prairie Stewardship and Prairie Bank**
 25.30 **Easement Acquisition**

25.31 \$3,500,000 the first year is from the trust fund
 25.32 to the commissioner of natural resources to
 25.33 acquire native prairie bank easements in
 25.34 accordance with Minnesota Statutes, section
 25.35 84.96, on approximately 335 acres, prepare
 25.36 baseline property assessments, restore and

26.1 enhance at least 570 acres of native prairie
26.2 sites, and provide technical assistance to
26.3 landowners. Of this amount, up to \$132,000
26.4 may be deposited in a conservation easement
26.5 stewardship account. Deposits into the
26.6 conservation easement stewardship account
26.7 must be made upon closing on conservation
26.8 easements or at a time otherwise approved in
26.9 the work plan. A list of proposed easement
26.10 acquisitions must be provided as part of the
26.11 required work plan. This appropriation is
26.12 available until June 30, 2020, by which time
26.13 the project must be completed and final
26.14 products delivered.

26.15 **(f) Leech Lake Acquisition**

26.16 \$1,500,000 the first year is from the trust fund
26.17 to the commissioner of natural resources for
26.18 an agreement with the Leech Lake Band of
26.19 Ojibwe to acquire approximately 45 acres,
26.20 including 0.67 miles of shoreline of
26.21 high-quality aquatic and wildlife habitat at the
26.22 historic meeting place between Henry
26.23 Schoolcraft and the Anishinabe people. The
26.24 land must be open to public use including
26.25 hunting and fishing. The band must provide a
26.26 commitment that land will not be put in a
26.27 federal trust through the Bureau of Indian
26.28 Affairs.

26.29 **(g) Mesabi Trail Development**

26.30 \$2,269,000 the first year is from the trust fund
26.31 to the commissioner of natural resources for
26.32 an agreement with the St. Louis and Lake
26.33 Counties Regional Railroad Authority for
26.34 engineering and constructing segments of the
26.35 Mesabi Trail. This appropriation is available

27.1 until June 30, 2020, by which time the project
 27.2 must be completed and final products
 27.3 delivered.

27.4 **(h) Tower Trailhead Boat Landing and Habitat**
 27.5 **Improvement - Phase II**

27.6 \$600,000 the first year is from the trust fund
 27.7 to the commissioner of natural resources for
 27.8 an agreement with the city of Tower to
 27.9 construct a trailhead and boat landing and
 27.10 restore vegetative habitat on city-owned
 27.11 property. Plant and seed materials must follow
 27.12 the Board of Water and Soil Resources' native
 27.13 vegetation establishment and enhancement
 27.14 guidelines. This appropriation is available until
 27.15 June 30, 2020, by which time the project must
 27.16 be completed and final products delivered.

27.17 **(i) Land Acquisition for Voyageurs National**
 27.18 **Park Crane Lake Visitors Center**

27.19 \$950,000 the first year is from the trust fund
 27.20 to the commissioner of natural resources for
 27.21 an agreement with the town of Crane Lake, in
 27.22 partnership with Voyageurs National Park and
 27.23 the Department of Natural Resources, to
 27.24 acquire approximately 30 acres to be used for
 27.25 a visitor center and campground. Income
 27.26 generated by the campground may be used to
 27.27 support the facility.

27.28 **Subd. 10. Administration and**
 27.29 **Contract Agreement**

27.30 **Reimbursement**

-0-

1,340,000

-0-

27.31 **(a) Contract Agreement Reimbursement**

27.32 \$135,000 the first year is from the trust fund
 27.33 to the commissioner of natural resources, at
 27.34 the direction of the Legislative-Citizen
 27.35 Commission on Minnesota Resources, for
 27.36 expenses incurred for contract agreement
 27.37 reimbursement for the agreements specified

28.1 in this section. The commissioner shall provide
28.2 documentation to the Legislative-Citizen
28.3 Commission on Minnesota Resources on the
28.4 expenditure of these funds.

28.5 **(b) Legislative-Citizen Commission on**
28.6 **Minnesota Resources (LCCMR) Administration**

28.7 \$1,200,000 the first year is from the trust fund
28.8 to the Legislative-Citizen Commission on
28.9 Minnesota Resources for administration in
28.10 fiscal years 2018 and 2019 as provided in
28.11 Minnesota Statutes, section 116P.09,
28.12 subdivision 5.

28.13 **(c) Legislative Coordinating Commission Legacy**
28.14 **Web site**

28.15 \$5,000 the first year is from the trust fund to
28.16 the Legislative Coordinating Commission for
28.17 the Web site required in Minnesota Statutes,
28.18 section 3.303, subdivision 10.

28.19 **Subd. 11. Availability of Appropriations**

28.20 Money appropriated in this section may not
28.21 be spent on activities unless they are directly
28.22 related to and necessary for a specific
28.23 appropriation and are specified in the work
28.24 plan approved by the Legislative-Citizen
28.25 Commission on Minnesota Resources. Money
28.26 appropriated in this section must not be spent
28.27 on indirect costs or other institutional overhead
28.28 charges that are not directly related to and
28.29 necessary for a specific appropriation. Costs
28.30 that are directly related to and necessary for
28.31 an appropriation, including financial services,
28.32 human resources, information services, rent,
28.33 and utilities, are eligible only if the costs can
28.34 be clearly justified and individually
28.35 documented specific to the appropriation's
28.36 purpose and would not be generated by the

29.1 recipient but for receipt of the appropriation.
29.2 No broad allocations for costs in either dollars
29.3 or percentages are allowed. Unless otherwise
29.4 provided, the amounts in this section are
29.5 available until June 30, 2019, when projects
29.6 must be completed and final products
29.7 delivered. For acquisition of real property, the
29.8 appropriations in this section are available for
29.9 an additional fiscal year if a binding contract
29.10 for acquisition of the real property is entered
29.11 into before the expiration date of the
29.12 appropriation. If a project receives a federal
29.13 grant, the time period of the appropriation is
29.14 extended to equal the federal grant period.
29.15 **Subd. 12. Data Availability Requirements**
29.16 Data collected by the projects funded under
29.17 this section must conform to guidelines and
29.18 standards adopted by MN.IT Services. Spatial
29.19 data must also conform to additional
29.20 guidelines and standards designed to support
29.21 data coordination and distribution that have
29.22 been published by the Minnesota Geospatial
29.23 Information Office. Descriptions of spatial
29.24 data must be prepared as specified in the state's
29.25 geographic metadata guideline and must be
29.26 submitted to the Minnesota Geospatial
29.27 Information Office. All data must be
29.28 accessible and free to the public unless made
29.29 private under the Data Practices Act,
29.30 Minnesota Statutes, chapter 13. To the extent
29.31 practicable, summary data and results of
29.32 projects funded under this section should be
29.33 readily accessible on the Internet and
29.34 identified as having received funding from the
29.35 environment and natural resources trust fund.
29.36 **Subd. 13. Project Requirements**

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

30.17 (b) A recipient of money appropriated in this
30.18 section that conducts a restoration using funds
30.19 appropriated in this section must use native
30.20 plant species according to the Board of Water
30.21 and Soil Resources' native vegetation
30.22 establishment and enhancement guidelines
30.23 and include an appropriate diversity of native
30.24 species selected to provide habitat for
30.25 pollinators throughout the growing season as
30.26 required under Minnesota Statutes, section
30.27 84.973.

30.28 (c) For all restorations conducted with money
30.29 appropriated under this section, a recipient
30.30 must prepare an ecological restoration and
30.31 management plan that, to the degree
30.32 practicable, is consistent with the highest
30.33 quality conservation and ecological goals for
30.34 the restoration site. Consideration should be
30.35 given to soil, geology, topography, and other

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

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

33.1 purchase, in part or in whole, except that up
33.2 to ten percent above the appraised value may
33.3 be allowed to complete the purchase, in part
33.4 or in whole, using this money if permission is
33.5 received in advance of the purchase from the
33.6 Legislative-Citizen Commission on Minnesota
33.7 Resources.

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

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

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

34.1 Resources any difference between the
34.2 acquisition amount paid to the seller and the
34.3 state-certified or state-reviewed appraisal, if
34.4 a state-certified or state-reviewed appraisal
34.5 was conducted.

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

34.13 Acknowledgment may occur, as appropriate,
34.14 through use of the trust fund logo or inclusion
34.15 of language attributing support from the trust
34.16 fund. Each direct recipient of money
34.17 appropriated in this section, as well as each
34.18 recipient of a grant awarded pursuant to this
34.19 section, must satisfy all reporting and other
34.20 requirements incumbent upon constitutionally
34.21 dedicated funding recipients as provided in
34.22 Minnesota Statutes, section 3.303, subdivision
34.23 10, and chapter 116P.

34.24 **Subd. 14. Payment Conditions and Capital**
34.25 **Equipment Expenditures**

34.26 (a) All agreements, grants, or contracts
34.27 referred to in this section must be administered
34.28 on a reimbursement basis unless otherwise
34.29 provided in this section. Notwithstanding
34.30 Minnesota Statutes, section 16A.41,
34.31 expenditures made on or after July 1, 2017,
34.32 or the date the work plan is approved,
34.33 whichever is later, are eligible for
34.34 reimbursement unless otherwise provided in
34.35 this section. Periodic payments must be made
34.36 upon receiving documentation that the

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

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

35.13 **Subd. 15. Purchase of Recycled and Recyclable**
 35.14 **Materials**

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

35.24 **Subd. 16. Energy Conservation and Sustainable**
 35.25 **Building Guidelines**

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

- 36.1 obtain information and technical assistance
- 36.2 on energy conservation and alternative energy
- 36.3 development relating to planning and
- 36.4 constructing the capital improvement project.
- 36.5 **Subd. 17. Accessibility**
- 36.6 Structural and nonstructural facilities must
- 36.7 meet the design standards in the Americans
- 36.8 with Disabilities Act (ADA) accessibility
- 36.9 guidelines.
- 36.10 **Subd. 18. Carryforward; Extension**
- 36.11 (a) The availability of the appropriations for
- 36.12 the following projects are extended to June
- 36.13 30, 2018:
- 36.14 (1) Laws 2014, chapter 226, section 2,
- 36.15 subdivision 3, paragraph (d), Evaluation of
- 36.16 Wastewater Nitrogen and Estrogen Treatment
- 36.17 Options;
- 36.18 (2) Laws 2014, chapter 226, section 2,
- 36.19 subdivision 4, paragraph (b), Bioacoustics to
- 36.20 Detect, Deter, and Eliminate Silver Carp;
- 36.21 (3) Laws 2014, chapter 226, section 2,
- 36.22 subdivision 4, paragraph (f), Brown
- 36.23 Marmorated Stink Bug Monitoring and
- 36.24 Bio-Control Evaluation;
- 36.25 (4) Laws 2014, chapter 226, section 2,
- 36.26 subdivision 6, paragraph (h), Nutrient Capture
- 36.27 through Water Management and Biomass
- 36.28 Harvesting;
- 36.29 (5) Laws 2014, chapter 226, section 2,
- 36.30 subdivision 7, paragraph (b), Metropolitan
- 36.31 Regional Park System Acquisition;
- 36.32 (6) Laws 2015, chapter 76, section 2,
- 36.33 subdivision 3, paragraph (l), Genetic and

- 37.1 Camera Techniques to Estimate Carnivore
37.2 Populations;
37.3 (7) Laws 2015, chapter 76, section 2,
37.4 subdivision 7, paragraph (c), Building
37.5 Deconstruction to Reduce Greenhouse Gas
37.6 Emissions and Solid Waste; and
37.7 (8) Laws 2015, chapter 76, section 2,
37.8 subdivision 10, Emerging Issues Account.
- 37.9 (b) The availability of the appropriations for
37.10 the following projects are extended to June
37.11 30, 2019:
- 37.12 (1) Laws 2014, chapter 226, section 2,
37.13 subdivision 10, paragraph (c),
37.14 Legislative-Citizen Commission on Minnesota
37.15 Resources (LCCMR) as extended by Laws
37.16 2016, chapter 186, section 2, subdivision 18,
37.17 clause (8);
- 37.18 (2) Laws 2015, chapter 76, section 2,
37.19 subdivision 7, paragraph (a), Renewable and
37.20 Sustainable Fertilizers Produced Locally;
- 37.21 (3) Laws 2015, chapter 76, section 2,
37.22 subdivision 8, paragraph (h), Improving
37.23 Community Forests Through Citizen
37.24 Engagement; and
- 37.25 (4) Laws 2016, chapter 186, section 2,
37.26 subdivision 9, paragraph (b), Minnesota Point
37.27 Pine Forest Scientific and Natural Area
37.28 Acquisition.
- 37.29 **Subd. 19. Fiscal Year 2019 Recommendations**
- 37.30 (a) The Legislative-Citizen Commission on
37.31 Minnesota Resources shall consider
37.32 recommending up to \$10,000,000 for fiscal
37.33 year 2019 appropriations from the trust fund

38.1 for buffers, wellhead protection, and other
38.2 activities eligible for matching the federal
38.3 Conservation Reserve Enhancement Program.

38.4 (b) Notwithstanding Minnesota Statutes,
38.5 section 116P.08, subdivision 2, clause (2), the
38.6 commission shall consider recommending up
38.7 to 25 percent of the available money from the
38.8 trust fund for fiscal year 2019 appropriations
38.9 for expenditure by the Public Facilities
38.10 Authority on municipal wastewater treatment
38.11 grant or loan programs that serve statutory and
38.12 home rule charter cities and towns with a
38.13 population less than 2,000 to preserve or
38.14 enhance fish, wildlife, land, air, water, and
38.15 other natural resources that otherwise may be
38.16 substantially impaired or destroyed in any area
38.17 of the state.

38.18 (c) Any deadlines established by the
38.19 Legislative-Citizen Commission on Minnesota
38.20 Resources for submission of proposals for the
38.21 commission's fiscal year 2019 funding
38.22 recommendations are waived until July 15,
38.23 2017, for proposals authorized under this
38.24 subdivision.

38.25 Sec. 3. Minnesota Statutes 2016, section 116P.05, subdivision 2, is amended to read:

38.26 Subd. 2. **Duties.** (a) The commission shall recommend an annual or biennial legislative
38.27 bill for appropriations from the environment and natural resources trust fund and shall adopt
38.28 a strategic plan as provided in section 116P.08. Approval of the recommended legislative
38.29 bill requires an affirmative vote of at least 12 members of the commission.

38.30 (b) It is a condition of acceptance of the appropriations made from the Minnesota
38.31 environment and natural resources trust fund, and oil overcharge money under section 4.071,
38.32 subdivision 2, that the agency or entity receiving the appropriation must submit a work plan
38.33 and annual or semiannual progress reports in the form determined by the Legislative-Citizen
38.34 Commission on Minnesota Resources, and comply with applicable reporting requirements

39.1 under section 116P.16. None of the money provided may be spent unless the commission
 39.2 has approved the pertinent work plan. Modifications to the approved work plan and budget
 39.3 expenditures shall be made through the amendment process established by the commission.
 39.4 The commission shall ensure that the expenditures and outcomes described in the work plan
 39.5 for appropriations funded by the environment and natural resources trust fund are met.

39.6 (c) The peer review procedures created under section 116P.08 must also be used to
 39.7 review, comment, and report to the commission on research proposals applying for an
 39.8 appropriation from the oil overcharge money under section 4.071, subdivision 2.

39.9 (d) The commission may adopt operating procedures to fulfill its duties under this chapter.

39.10 (e) As part of the operating procedures, the commission shall:

39.11 (1) ensure that members' expectations are to participate in all meetings related to funding
 39.12 decision recommendations;

39.13 (2) recommend adequate funding for increased citizen outreach and communications
 39.14 for trust fund expenditure planning;

39.15 (3) allow administrative expenses as part of individual project expenditures based on
 39.16 need;

39.17 (4) provide for project outcome evaluation;

39.18 (5) keep the grant application, administration, and review process as simple as possible;
 39.19 and

39.20 (6) define and emphasize the leveraging of additional sources of money that project
 39.21 proposers should consider when making trust fund proposals.

39.22 Sec. 4. Minnesota Statutes 2016, section 116P.17, subdivision 1, is amended to read:

39.23 Subdivision 1. **Commissioner approval.** (a) A recipient of an appropriation from the
 39.24 trust fund who acquires an interest in real property must receive written approval from the
 39.25 commissioner of natural resources prior to the acquisition, if the interest is acquired in whole
 39.26 or in part with the appropriation. A recipient must request the commissioner's approval at
 39.27 least ten business days before the proposed acquisition. When a recipient requests approval
 39.28 under this subdivision, the recipient must simultaneously submit the same information to
 39.29 the commission. Conservation easements to be held by the Board of Water and Soil
 39.30 Resources, acquisitions of land in the metropolitan regional recreation open space systems
 39.31 as defined under section 473.351, subdivision 1, with appropriations to the Metropolitan

40.1 Council, and acquisitions specifically identified in appropriation laws are not subject to
40.2 commissioner approval under this section.

40.3 (b) The commissioner shall approve acquisitions under this section only when the interest
40.4 in real property:

40.5 (1) is identified as a high priority by the commissioner and meets the objectives and
40.6 criteria identified in the applicable acquisition plan for the intended management status of
40.7 the property; or

40.8 (2) is otherwise identified by the commissioner as a priority for state financing.

40.9 **Sec. 5. [477A.21] RIPARIAN PROTECTION AID.**

40.10 **Subdivision 1. Definitions.** For purposes of this section, the following terms have the
40.11 meanings given:

40.12 (1) "buffer protection map" has the meaning given under section 103F.48, subdivision
40.13 1; and

40.14 (2) "public watercourses" means public waters and public drainage systems subject to
40.15 riparian protection requirements under section 103F.48.

40.16 **Subd. 2. Certifications to commissioner.** (a) The Board of Water and Soil Resources
40.17 must certify to the commissioner of revenue, on or before July 1 each year, which counties
40.18 and watershed districts have affirmed their jurisdiction under section 103F.48 and the
40.19 proportion of centerline miles of public watercourses, and miles of public drainage system
40.20 ditches on the buffer protection map, within each county and each watershed district within
40.21 the county with affirmed jurisdiction.

40.22 (b) On or before July 1 each year, the commissioner of natural resources shall certify to
40.23 the commissioner of revenue the statewide and countywide number of centerline miles of
40.24 public watercourses and miles of public drainage system ditches on the buffer protection
40.25 map.

40.26 **Subd. 3. Distribution.** (a) A county that is certified under subdivision 2, or that portion
40.27 of a county containing a watershed district certified under subdivision 2, is eligible to receive
40.28 aid under this section to enforce and implement the riparian protection and water quality
40.29 practices under section 103F.48. Each county's preliminary aid amount is equal to the
40.30 proportion calculated under paragraph (b) multiplied by the appropriation received each
40.31 year by the commissioner for purposes of payments under this section.

41.1 (b) The commissioner must compute each county's proportion. A county's proportion is
41.2 equal to the ratio of the sum in clause (1) to the sum in clause (2):

41.3 (1) the sum of the total number of acres in the county classified as class 2a under section
41.4 273.13, subdivision 23, the countywide number of centerline miles of public watercourses
41.5 on the buffer protection map, and the countywide number of miles of public drainage system
41.6 ditches on the buffer protection map; and

41.7 (2) the sum of the statewide total number of acres classified as class 2a under section
41.8 273.13, subdivision 23, the statewide total number of centerline miles of public watercourses
41.9 on the buffer protection map, and the statewide total number of public drainage system
41.10 miles on the buffer protection map.

41.11 (c) Aid to a county must not be greater than \$200,000 or less than \$50,000. If the sum
41.12 of the preliminary aids payable to counties under paragraph (a) is greater or less than the
41.13 appropriation received by the commissioner, the commissioner of revenue must calculate
41.14 the percentage of adjustment necessary so that the total of the aid under paragraph (a) equals
41.15 the total amount received by the commissioner, subject to the minimum and maximum
41.16 amounts specified in this paragraph. The minimum and maximum amounts under this
41.17 paragraph must be adjusted by the ratio of the actual amount appropriated to \$10,000,000.

41.18 (d) If only a portion of a county is certified as eligible to receive aid under subdivision
41.19 2, the aid otherwise payable to that county under this section must be multiplied by a fraction,
41.20 the numerator of which is the buffer protection map miles of the certified watershed districts
41.21 contained within the county and the denominator of which is the total buffer protection map
41.22 miles of the county.

41.23 (e) Any aid that would otherwise be paid to a county or portion of a county that is not
41.24 certified under subdivision 2 shall be paid to the Board of Water and Soil Resources for
41.25 enforcing and implementing the riparian protection and water quality practices under section
41.26 103F.48.

41.27 Subd. 4. **Payments.** The commissioner of revenue must compute the amount of riparian
41.28 protection aid payable to each eligible county and to the Board of Water and Soil Resources
41.29 under this section. On or before August 1 each year, the commissioner must certify the
41.30 amount to be paid to each county and the Board of Water and Soil Resources in the following
41.31 year, except that the payments for 2017 must be certified by July 15, 2017. The commissioner
41.32 must pay riparian protection aid to counties and to the Board of Water and Soil Resources
41.33 in the same manner and at the same time as aid payments under section 477A.015.

- 42.1 **EFFECTIVE DATE.** This section is effective the day following final enactment and
- 42.2 applies to aids payable in 2017 and thereafter.