

162.14

ARTICLE 5

162.15

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND FISCAL YEAR

162.16

2021

162.17

Section 1. **APPROPRIATIONS.**

162.18

The sums shown in the columns marked "Appropriations" are appropriated to the agencies

162.19

and for the purposes specified in this article. The appropriations are from the environment

162.20

and natural resources trust fund, or another named fund, and are available for the fiscal

162.21

years indicated for each purpose. The figures "2020" and "2021" used in this article mean

162.22

that the appropriations listed under them are available for the fiscal year ending June 30,

162.23

2020, or June 30, 2021, respectively. "The first year" is fiscal year 2020. "The second year"

162.24

is fiscal year 2021. "The biennium" is fiscal years 2020 and 2021.

162.25

APPROPRIATIONS

162.26

Available for the Year

162.27

Ending June 30

162.28

2020

2021

162.29

Sec. 2. **MINNESOTA RESOURCES**

162.30

Subdivision 1. Total

162.31

Appropriation

\$

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\$ 61,387,000

162.32

The amounts that may be spent for each

162.33

purpose are specified in the following

162.34

subdivisions. Appropriations in the second

163.1 year are available for four years beginning
 163.2 July 1, 2020, unless otherwise stated in the
 163.3 appropriation. Any unencumbered balance
 163.4 remaining in the first year does not cancel and
 163.5 is available for the second year or until the
 163.6 end of the appropriation.

163.7 **Subd. 2. Definition**

163.8 "Trust fund" means the Minnesota
 163.9 environment and natural resources trust fund
 163.10 established under the Minnesota Constitution,
 163.11 article XI, section 14.

163.12 **Subd. 3. Foundational**
 163.13 **Natural Resource Data and**
 163.14 **Information**

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8,593,000

163.15 **(a) Geologic Atlases for Water Resource**
 163.16 **Management**

163.17 \$2,000,000 the second year is from the trust
 163.18 fund to the Board of Regents of the University
 163.19 of Minnesota, Minnesota Geological Survey,
 163.20 to continue producing county geologic atlases
 163.21 to inform management of surface water and
 163.22 groundwater resources. This appropriation is
 163.23 to complete Part A, which focuses on the
 163.24 properties and distribution of earth materials
 163.25 to define aquifer boundaries and the
 163.26 connection of aquifers to the land surface and
 163.27 surface water resources.

163.28 **(b) Expanding Minnesota Ecological Monitoring**
 163.29 **Network**

163.30 \$800,000 the second year is from the trust
 163.31 fund to the commissioner of natural resources
 163.32 to improve conservation and management of
 163.33 Minnesota's native forests, wetlands, and
 163.34 grasslands by expanding the partially
 163.35 established long-term Ecological Monitoring
 163.36 Network that will provide critical knowledge

164.1 of how ecosystem dynamics and conditions
164.2 change through time.

164.3 **(c) County Groundwater Atlas**

164.4 \$1,125,000 the second year is from the trust
164.5 fund to the commissioner of natural resources
164.6 to continue producing county geologic atlases
164.7 to inform management of surface water and
164.8 groundwater resources for drinking water and
164.9 other purposes. This appropriation is for Part
164.10 B, to characterize the potential water yields of
164.11 aquifers and the aquifers' sensitivity to
164.12 contamination.

164.13 **(d) Foundational Hydrology Data for Wetland**
164.14 **Protection and Restoration**

164.15 \$400,000 the second year is from the trust
164.16 fund to the commissioner of natural resources
164.17 to improve wetland protection, management,
164.18 and restoration in Minnesota by completing
164.19 the partially established long-term Wetland
164.20 Hydrology Monitoring Network that will
164.21 provide critical knowledge of wetland
164.22 hydrology dynamics. This appropriation is
164.23 available until June 30, 2025, by which time
164.24 the project must be completed and final
164.25 products delivered.

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

164.27 \$575,000 the second year is from the trust
164.28 fund to the Board of Regents of the University
164.29 of Minnesota to study summertime wolf
164.30 predation on deer, moose, and other species
164.31 in the Voyageurs region to inform
164.32 management of wildlife. This appropriation
164.33 is available until June 30, 2025, by which time
164.34 the project must be completed and final
164.35 products delivered.

165.1 **(f) Expanding Restoration and Promoting**

165.2 **Awareness of Native Mussels**

165.3 \$489,000 the second year is from the trust
165.4 fund to the Minnesota Zoological Garden to
165.5 promote mussel conservation by rearing
165.6 juvenile mussels for reintroduction,
165.7 researching methods to improve growth and
165.8 survival in captivity, and encouraging public
165.9 action to benefit water quality. This
165.10 appropriation is available until June 30, 2025,
165.11 by which time the project must be completed
165.12 and final products delivered.

165.13 **(g) Improving Pollinator Conservation by**

165.14 **Revealing Habitat Needs**

165.15 \$500,000 the second year is from the trust
165.16 fund to the Board of Regents of the University
165.17 of Minnesota to use citizen scientists and novel
165.18 analyses to determine the nesting and
165.19 overwintering needs of wild bees to allow
165.20 more specific protection and enhancement of
165.21 pollinator habitat across the state.

165.22 **(h) Bee Minnesota - Protect Our Native**

165.23 **Bumblebees**

165.24 \$650,000 the second year is from the trust
165.25 fund to the Board of Regents of the University
165.26 of Minnesota to protect native bee health by
165.27 investigating the potential to mitigate against
165.28 pathogens that may be transmissible between
165.29 honeybees and wild bees and by promoting
165.30 best practices to beekeepers and the public.
165.31 This appropriation is subject to Minnesota
165.32 Statutes, section 116P.10.

165.33 **(i) Bobcat and Fisher Habitat Use and**

165.34 **Interactions**

- 166.1 \$400,000 the second year is from the trust
166.2 fund to the Board of Regents of the University
166.3 of Minnesota for the Natural Resources
166.4 Research Institute in Duluth to identify
166.5 potential solutions to reverse the fisher
166.6 population decline through better
166.7 understanding of habitat, diet, and activity
166.8 patterns of bobcats and fishers.
- 166.9 **(j) Healthy Prairies III: Restoring Minnesota**
166.10 **Prairie Plant Diversity**
- 166.11 \$500,000 the second year is from the trust
166.12 fund to the Board of Regents of the University
166.13 of Minnesota to improve Minnesota prairie
166.14 resiliency by increasing locally sourced seed
166.15 availability and diversity, evaluating use of
166.16 beneficial microbes in prairie restorations, and
166.17 assessing adaptation and adaptive capacity of
166.18 prairie plant populations.
- 166.19 **(k) Freshwater Sponges and AIS: Engaging**
166.20 **Citizen Scientists**
- 166.21 \$400,000 the second year is from the trust
166.22 fund to the Board of Regents of the University
166.23 of Minnesota, Crookston, to use citizen
166.24 scientists to study the geographic distribution,
166.25 taxonomic diversity, and antifouling potential
166.26 of freshwater sponges against aquatic invasive
166.27 species.
- 166.28 **(l) Do Beavers Buffer Against Droughts and**
166.29 **Floods?**
- 166.30 \$168,000 the second year is from the trust
166.31 fund to the commissioner of natural resources
166.32 for an agreement with Voyageurs National
166.33 Park to analyze existing data sets to determine
166.34 the role of beaver populations and beaver

167.1 ponds in buffering the region against droughts
167.2 and floods.

167.3 **(m) Enhancing Bat Recovery by Optimizing**
167.4 **Artificial Roost Structures**

167.5 \$190,000 the second year is from the trust
167.6 fund to the commissioner of natural resources
167.7 to improve the survival of bats by identifying
167.8 characteristics of successful artificial bat roost
167.9 structures and optimizing the structures for
167.10 bat use and reproduction. This appropriation
167.11 is available until June 30, 2025, by which time
167.12 the project must be completed and final
167.13 products delivered.

167.14 **(n) Tools for Supporting Healthy Ecosystems**
167.15 **and Pollinators**

167.16 \$198,000 the second year is from the trust
167.17 fund to the commissioner of natural resources
167.18 to create a pollination companion guide to the
167.19 Department of Natural Resources' *Field*
167.20 *Guides to the Native Plant Communities of*
167.21 *Minnesota* for conservation practitioners to
167.22 better integrate plant-pollinator interactions
167.23 into natural resource planning and
167.24 decision-making.

167.25 **(o) Conserving Black Terns and Forster's Terns**
167.26 **in Minnesota**

167.27 \$198,000 the second year is from the trust
167.28 fund to the Board of Regents of the University
167.29 of Minnesota for the Natural Resources
167.30 Research Institute in Duluth to assess the
167.31 distribution and breeding status of black tern
167.32 and Forster's tern and to make conservation
167.33 and restoration recommendations to improve
167.34 the suitability of habitat for these two bird
167.35 species in Minnesota.

- 168.1 Subd. 4. **Water Resources** -0- 3,457,000
- 168.2 (a) **Managing Highly Saline Waste from**
- 168.3 **Municipal Water Treatment**
- 168.4 \$250,000 the second year is from the trust
- 168.5 fund to the Board of Regents of the University
- 168.6 of Minnesota to develop a cost- and
- 168.7 energy-efficient method of managing the
- 168.8 concentrated saline waste from a municipal
- 168.9 water treatment plant to increase the feasibility
- 168.10 of using reverse osmosis for centralized water
- 168.11 softening and sulfate removal. This
- 168.12 appropriation is subject to Minnesota Statutes,
- 168.13 section 116P.10.
- 168.14 (b) **Technology for Energy-Generating On-site**
- 168.15 **Industrial Wastewater Treatment**
- 168.16 \$450,000 the second year is from the trust
- 168.17 fund to the Board of Regents of the University
- 168.18 of Minnesota to improve water quality and
- 168.19 generate cost savings by developing off the
- 168.20 shelf technology that treats industrial
- 168.21 wastewater on-site and turns pollutants into
- 168.22 hydrogen and methane for energy. This
- 168.23 appropriation is subject to Minnesota Statutes,
- 168.24 section 116P.10.
- 168.25 (c) **Microplastics: Transporters of Contaminants**
- 168.26 **in Minnesota Waters**
- 168.27 \$425,000 the second year is from the trust
- 168.28 fund to the Board of Regents of the University
- 168.29 of Minnesota to study how several types of
- 168.30 common microplastics transport contaminants
- 168.31 of concern in Minnesota waters.
- 168.32 (d) **Developing Strategies to Manage PFAS in**
- 168.33 **Land-Applied Biosolids**
- 168.34 \$1,404,000 the second year is from the trust
- 168.35 fund to the commissioner of the Pollution

169.1 Control Agency to help municipal wastewater
169.2 plants, landfills, and compost facilities protect
169.3 human health and the environment by
169.4 developing strategies to manage per- and
169.5 polyfluoroalkyl substances (PFAS) in
169.6 land-applied biosolids.

169.7 **(e) Quantifying New Urban Precipitation and**
169.8 **Water Reality**

169.9 \$500,000 the second year is from the trust
169.10 fund to the Board of Regents of the University
169.11 of Minnesota to better guide storm water
169.12 management by evaluating the groundwater
169.13 and surface water interactions contributing to
169.14 high water tables and damage to home
169.15 basements and underground infrastructure in
169.16 urban areas.

169.17 **(f) Innovative Solution for Protecting Minnesota**
169.18 **from PFAS Contamination**

169.19 \$250,000 the second year is from the trust
169.20 fund to the commissioner of natural resources
169.21 for an agreement with Dem-Con Companies
169.22 to demonstrate a new technology for
169.23 protecting the state's drinking water and
169.24 natural resources by eliminating per- and
169.25 polyfluoroalkyl substances (PFAS) from point
169.26 source discharges. This appropriation is
169.27 subject to Minnesota Statutes, section 116P.10,
169.28 related to royalties, copyrights, patents, and
169.29 sale of products and assets.

169.30 **(g) Expanding Protection of Minnesota Water**
169.31 **through Industrial Conservation**

169.32 \$178,000 the second year is from the trust
169.33 fund to the Board of Regents of the University
169.34 of Minnesota for the Minnesota technical
169.35 assistance program in partnership with the

170.1 Minnesota Rural Water Association to provide
 170.2 technical assistance to businesses to decrease
 170.3 industrial and commercial water use in
 170.4 communities at risk for inadequate
 170.5 groundwater supply or quality.

170.6 **Subd. 5. Technical**
 170.7 **Assistance, Outreach, and**
 170.8 **Environmental Education**

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2,871,000

170.9 **(a) Statewide Environmental Education via**
 170.10 **Public Television Outdoor Series**

170.11 \$300,000 the second year is from the trust
 170.12 fund to the commissioner of natural resources
 170.13 for an agreement with Pioneer Public
 170.14 Television to produce approximately 25 new
 170.15 episodes of a statewide outdoor public
 170.16 television series designed to inspire
 170.17 Minnesotans to connect with the outdoors and
 170.18 restore and protect the environment.

170.19 **(b) Minnesota Freshwater Quest: Environmental**
 170.20 **Education on State Waterways**

170.21 \$500,000 the second year is from the trust
 170.22 fund to the commissioner of natural resources
 170.23 for an agreement with Wilderness Inquiry for
 170.24 approximately 10,000 underserved Minnesota
 170.25 youth to explore and improve local waterways
 170.26 using the place-based and hands-on Minnesota
 170.27 Freshwater Quest environmental education
 170.28 program.

170.29 **(c) Teach Science: Schools as STEM Living**
 170.30 **Laboratories**

170.31 \$250,000 the second year is from the trust
 170.32 fund to the commissioner of natural resources
 170.33 for an agreement with Climate Generation: A
 170.34 Will Steger Legacy to prepare students for the
 170.35 challenges and careers of the future by
 170.36 connecting new science standards, renewable

171.1 energy, and STEM opportunities in teacher
171.2 trainings, classroom demonstrations, and
171.3 program support across the state.

171.4 **(d) Mentoring Next Generation of Conservation**
171.5 **Professionals**

171.6 \$500,000 the second year is from the trust
171.7 fund to the commissioner of natural resources
171.8 for an agreement with Minnesota Valley
171.9 National Wildlife Refuge Trust, Inc., to
171.10 provide paid internships and apprenticeships
171.11 for diverse young people to learn about careers
171.12 in the conservation field from United States
171.13 Fish and Wildlife Service professionals while
171.14 working at the Minnesota Valley National
171.15 Wildlife Refuge and Wetland Management
171.16 District.

171.17 **(e) Jay C. Hormel Nature Center Supplemental**
171.18 **Teaching Staff**

171.19 \$225,000 the second year is from the trust
171.20 fund to the commissioner of natural resources
171.21 for an agreement with the city of Austin to
171.22 expand the Jay C. Hormel Nature Center
171.23 environmental education program beyond the
171.24 city of Austin to students in southeastern
171.25 Minnesota for three years.

171.26 **(f) 375 Underserved Youth Learn Minnesota**
171.27 **Ecosystems by Canoe**

171.28 \$375,000 the second year is from the trust
171.29 fund to the commissioner of natural resources
171.30 for an agreement with the YMCA of the
171.31 Greater Twin Cities to connect approximately
171.32 375 underserved and diverse teens from urban
171.33 areas and first-ring suburbs to environmental
171.34 sciences in the natural world through canoeing
171.35 and learning expeditions with experienced

172.1 outdoor education counselors. This
 172.2 appropriation is available until June 30, 2025,
 172.3 by which time the project must be completed
 172.4 and final products delivered.

172.5 **(g) YES! Students Take on Water Quality**
 172.6 **Challenge - Phase II**

172.7 \$199,000 the second year is from the trust
 172.8 fund to the commissioner of natural resources
 172.9 for an agreement with Prairie Woods
 172.10 Environmental Learning Center to mobilize
 172.11 local watershed stewardship efforts in
 172.12 approximately 20 communities through
 172.13 student-driven action projects.

172.14 **(h) Engaging Minnesotans with Phenology:**
 172.15 **Radio, Podcasts, Citizen Science**

172.16 \$198,000 the second year is from the trust
 172.17 fund to the commissioner of natural resources
 172.18 for an agreement with Northern Community
 172.19 Radio, Inc., in partnership with the Board of
 172.20 Regents of the University of Minnesota to
 172.21 build the next generation of conservationists
 172.22 using phenology, radio broadcasts, podcasts,
 172.23 and an online, interactive map interface to
 172.24 inspire teachers, students, and the public to
 172.25 get outside and experience nature.

172.26 **(i) Driving Conservation Behavior for Native**
 172.27 **Mussels and Water Quality**

172.28 \$191,000 the second year is from the trust
 172.29 fund to the Minnesota Zoological Garden to
 172.30 develop research-supported strategies to
 172.31 engage the public in specific conservation
 172.32 behaviors to improve water quality and native
 172.33 mussel health across the state.

172.34 **(j) Workshops and Outreach to Protect Raptors**
 172.35 **from Lead Poisoning**

173.1 \$133,000 the second year is from the trust
 173.2 fund to the Board of Regents of the University
 173.3 of Minnesota, Raptor Center, in cooperation
 173.4 with the Department of Natural Resources and
 173.5 other conservation partners, to provide hunters
 173.6 with outreach and workshops on alternatives
 173.7 to lead hunting ammunition, including copper
 173.8 ammunition as an alternative, and to promote
 173.9 voluntary selection of nontoxic ammunition
 173.10 to protect raptors and other wildlife in
 173.11 Minnesota from accidental lead poisoning
 173.12 caused by ingestion of ammunition fragments.

173.13 **Subd. 6. Aquatic and**
 173.14 **Terrestrial Invasive Species**

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10,425,000

173.15 **(a) Minnesota Invasive Terrestrial Plants and**
 173.16 **Pests Center (MITPPC) - Phase V**

173.17 \$5,000,000 the second year is from the trust
 173.18 fund to the Board of Regents of the University
 173.19 of Minnesota to support the Minnesota
 173.20 Invasive Terrestrial Plants and Pests Center
 173.21 to fund approximately 15 new, high-priority
 173.22 research projects that will lead to better
 173.23 management of invasive plants, pathogens,
 173.24 and pests on Minnesota's natural and
 173.25 agricultural lands. This appropriation is subject
 173.26 to Minnesota Statutes, section 116P.10. This
 173.27 appropriation is available until June 30, 2026,
 173.28 by which time the project must be completed
 173.29 and final products delivered.

173.30 **(b) Protect Community Forests by Managing**
 173.31 **Ash for Emerald Ash Borer**

173.32 \$3,500,000 the second year is from the trust
 173.33 fund to the commissioner of natural resources
 173.34 to reduce emerald ash borer by providing
 173.35 surveys, assessments, trainings, assistance,
 173.36 and grants for communities to manage emerald

174.1 ash borer, plant a diversity of trees, and engage
174.2 citizens in community forestry activities. This
174.3 appropriation is available until June 30, 2025,
174.4 by which time the project must be completed
174.5 and final products delivered.

174.6 **(c) Biological Control of White-Nose Syndrome**
174.7 **in Bats - Phase III**

174.8 \$440,000 the second year is from the trust
174.9 fund to the Board of Regents of the University
174.10 of Minnesota to continue assessing and
174.11 developing a biocontrol agent for white-nose
174.12 syndrome in bats.

174.13 **(d) Applying New Tools and Techniques Against**
174.14 **Invasive Carp**

174.15 \$478,000 the second year is from the trust
174.16 fund to the commissioner of natural resources
174.17 to apply new monitoring, outreach, and
174.18 removal techniques and to continue work with
174.19 commercial anglers to protect Minnesota
174.20 waters from invasive carp.

174.21 **(e) Emerald Ash Borer and Black Ash:**
174.22 **Maintaining Forests and Benefits**

174.23 \$700,000 the second year is from the trust
174.24 fund to the Board of Regents of the University
174.25 of Minnesota to use ongoing experiments to
174.26 determine statewide long-term emerald ash
174.27 borer impacts on water, vegetation, and
174.28 wildlife; to determine optimal replacement
174.29 species and practices for forest diversification;
174.30 and to develop criteria for prioritizing
174.31 mitigation activities. This appropriation is
174.32 available until June 30, 2026, by which time
174.33 the project must be completed and final
174.34 products delivered.

175.1 **(f) Testing Effectiveness of Aquatic Invasive**
 175.2 **Species Removal Methods**

175.3 \$110,000 the second year is from the trust
 175.4 fund to the Board of Regents of the University
 175.5 of Minnesota for the Natural Resources
 175.6 Research Institute in Duluth to test how well
 175.7 boat-cleaning methods work, to provide the
 175.8 Department of Natural Resources with a risk
 175.9 assessment, and to provide recommendations
 175.10 for improving boat-launch cleaning stations
 175.11 to prevent the spread of aquatic invasive
 175.12 species.

175.13 **(g) Invasive *Didymosphenia* Threatens North**
 175.14 **Shore Streams**

175.15 \$197,000 the second year is from the trust
 175.16 fund to the Science Museum of Minnesota to
 175.17 evaluate the recent spread, origin, cause, and
 175.18 economic and ecological threat of didymo
 175.19 formation in North Shore streams and Lake
 175.20 Superior to inform management and outreach.

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

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573,000

175.22 **(a) Storing Renewable Energy in Flow Battery**
 175.23 **for Grid Use**

175.24 \$250,000 the second year is from the trust
 175.25 fund to the Board of Regents of the University
 175.26 of Minnesota, on behalf of the Morris campus,
 175.27 to analyze the potential of adding a flow
 175.28 battery and solar energy generation to the
 175.29 University of Minnesota Morris's existing
 175.30 renewable-energy-intensive microgrid.

175.31 **(b) Eco-Friendly Plastics from Cloquet Pulp-Mill**
 175.32 **Lignin**

175.33 \$193,000 the second year is from the trust
 175.34 fund to the Board of Regents of the University
 175.35 of Minnesota to reduce environmental

176.1 pollution from plastics by creating eco-friendly
 176.2 replacements using lignin from the pulp mill
 176.3 in Cloquet, Minnesota. This appropriation is
 176.4 subject to Minnesota Statutes, section 116P.10.

176.5 **(c) Diverting Unsold Food from Landfills and**
 176.6 **Reducing Greenhouse Gases**

176.7 \$130,000 the second year is from the trust
 176.8 fund to the commissioner of natural resources
 176.9 for an agreement with Second Harvest
 176.10 Heartland to prevent food from going to
 176.11 landfills and reduce greenhouse gas emissions
 176.12 by helping businesses donate unsold prepared
 176.13 food to food shelves.

176.14 **Subd. 8. Methods to Protect or Restore Land,**
 176.15 **Water, and Habitat**

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4,337,000

176.16 **(a) Pollinator Central: Habitat Improvement**
 176.17 **with Citizen Monitoring**

176.18 \$750,000 the second year is from the trust
 176.19 fund to the commissioner of natural resources
 176.20 for an agreement with Great River Greening
 176.21 to restore and enhance approximately 400
 176.22 acres of pollinator habitat on traditional and
 176.23 nontraditional sites such as roadsides and turf
 176.24 grass from Hastings to St. Cloud to benefit
 176.25 pollinators and build knowledge by engaging
 176.26 approximately 100 citizens in monitoring the
 176.27 impact of habitat improvements. This
 176.28 appropriation is available until June 30, 2025,
 176.29 by which time the project must be completed
 176.30 and final products delivered.

176.31 **(b) Pollinator and Beneficial Insect Strategic**
 176.32 **Habitat Program**

176.33 \$750,000 the second year is from the trust
 176.34 fund to the Board of Water and Soil Resources
 176.35 for building a new initiative to strategically

177.1 restore and enhance approximately 1,000 acres
177.2 of diverse native habitat to benefit multiple
177.3 insects through grants, cost-share, and
177.4 outreach. Notwithstanding subdivision 14,
177.5 paragraph (e), restorations and enhancements
177.6 may take place on land enrolled in
177.7 conservation reserve program and reinvest in
177.8 Minnesota easement programs. This
177.9 appropriation is available until June 30, 2025,
177.10 by which time the project must be completed
177.11 and final products delivered.

177.12 **(c) Lignin-Coated Fertilizers for Phosphate**
177.13 **Control**

177.14 \$250,000 the second year is from the trust
177.15 fund to the Board of Regents of the University
177.16 of Minnesota for the Natural Resources
177.17 Research Institute in Duluth to test a new,
177.18 natural, slow-release fertilizer coating made
177.19 from processed wood to decrease phosphorus
177.20 runoff from farmland while also storing carbon
177.21 in soils. This appropriation is subject to
177.22 Minnesota Statutes, section 116P.10.

177.23 **(d) Implementing Hemp Crop Rotation to**
177.24 **Improve Water Quality**

177.25 \$700,000 the second year is from the trust
177.26 fund to the Minnesota State Colleges and
177.27 Universities System for Central Lakes College
177.28 to evaluate how hemp crops reduce nitrogen
177.29 contamination of surface water and
177.30 groundwater in conventional crop rotations
177.31 and demonstrate the environmental and
177.32 economic benefits of hemp production. This
177.33 appropriation is available until June 30, 2025,
177.34 by which time the project must be completed
177.35 and final products delivered.

178.1 **(e) Developing Cover-Crop Systems for Sugar**
178.2 **Beet Production**

178.3 \$300,000 the second year is from the trust
178.4 fund to the Board of Regents of the University
178.5 of Minnesota to develop agronomic guidelines
178.6 to support growers adopting cover-crop
178.7 practices in sugar beet production in
178.8 west-central and northwest Minnesota.

178.9 **(f) Native Eastern Larch Beetle Decimating**
178.10 **Minnesota's Tamarack Forests**

178.11 \$398,000 the second year is from the trust
178.12 fund to the Board of Regents of the University
178.13 of Minnesota to understand conditions
178.14 triggering eastern larch beetle outbreaks and
178.15 develop management techniques to protect
178.16 tamarack forests from this native insect. This
178.17 appropriation is available until June 30, 2025,
178.18 by which time the project must be completed
178.19 and final products delivered.

178.20 **(g) Habitat Associations of Mississippi**
178.21 **Bottomland Forest Marsh Birds**

178.22 \$275,000 the second year is from the trust
178.23 fund to the commissioner of natural resources
178.24 for an agreement with the National Audubon
178.25 Society, Minnesota office, to evaluate habitat
178.26 associations of bottomland forest birds in
178.27 response to restoration actions to better target
178.28 restoration efforts for wildlife. This
178.29 appropriation is available until June 30, 2025,
178.30 by which time the project must be completed
178.31 and final products delivered.

178.32 **(h) Peatland Restoration in the Lost River State**
178.33 **Forest**

178.34 \$135,000 the second year is from the trust
178.35 fund to the commissioner of natural resources

- 179.1 for an agreement with the Roseau River
179.2 Watershed District to collect physical attribute
179.3 data from drained peatlands, incorporate the
179.4 data into a decision matrix, and generate a
179.5 report detailing peatland restoration potential
179.6 throughout the Lost River State Forest.
- 179.7 **(i) Prescribed Burning for Brushland-Dependent**
179.8 **Species - Phase II**
- 179.9 \$147,000 the second year is from the trust
179.10 fund to the Board of Regents of the University
179.11 of Minnesota to compare the effects of spring,
179.12 summer, and fall burns on birds and vegetation
179.13 and to provide guidelines for maintaining
179.14 healthy brushland habitat for a diversity of
179.15 wildlife and plant species.
- 179.16 **(j) Pollinator Habitat Creation Along Urban**
179.17 **Mississippi River**
- 179.18 \$129,000 the second year is from the trust
179.19 fund to the commissioner of natural resources
179.20 for an agreement with Friends of the
179.21 Mississippi River to remove invasive plants
179.22 and replace them with high-value native
179.23 species at three urban sites along the
179.24 Mississippi River to improve habitat for
179.25 pollinators and other wildlife. This
179.26 appropriation is available until June 30, 2026,
179.27 by which time the project must be completed
179.28 and final products delivered.
- 179.29 **(k) Increase Golden Shiner Production to Protect**
179.30 **Aquatic Communities**
- 179.31 \$188,000 the second year is from the trust
179.32 fund to the Board of Regents of the University
179.33 of Minnesota for the Minnesota Sea Grant in
179.34 Duluth to identify and demonstrate best
179.35 methods for in-state production of golden

180.1 shiners to address angler demand while
180.2 reducing the risk of introducing and spreading
180.3 invasive species and to communicate findings
180.4 through reports, manuals, and workshops.
180.5 Production of shiners in this project must not
180.6 take place in wetlands.

180.7 **(l) Restoring Turf to Native Pollinator Gardens**
180.8 **Across Metro**

180.9 \$197,000 the second year is from the trust
180.10 fund to the commissioner of natural resources
180.11 for an agreement with Wilderness in the City
180.12 to transition turf to native gardens for
180.13 pollinator habitat, establish long-term
180.14 volunteer stewardship networks, and help
180.15 connect diverse populations with nature
180.16 throughout the metropolitan regional park
180.17 system. A letter of commitment from the
180.18 respective regional park implementing agency
180.19 must be provided before money from this
180.20 appropriation is spent at a regional park within
180.21 the agency's jurisdiction.

180.22 **(m) Lawns to Legumes**

180.23 \$118,000 the second year is from the trust
180.24 fund to the Board of Water and Soil Resources
180.25 for demonstration projects that provide grants
180.26 or payments to plant residential lawns with
180.27 native vegetation and pollinator-friendly forbs
180.28 and legumes to protect a diversity of
180.29 pollinators. The board must establish criteria
180.30 for grants or payments awarded under this
180.31 section. Grants or payments awarded under
180.32 this section may be made for up to 75 percent
180.33 of the costs of the project, except that in areas
180.34 identified by the United States Fish and
180.35 Wildlife Service as areas where there is a high

181.1 potential for rusty patched bumble bees to be
 181.2 present, grants may be awarded for up to 90
 181.3 percent of the costs of the project.

181.4 **Subd. 9. Land Acquisition,**
 181.5 **Habitat, and Recreation**

-0-

29,901,000

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

181.7 \$3,000,000 the second year is from the trust
 181.8 fund to the commissioner of natural resources
 181.9 for the scientific and natural area (SNA)
 181.10 program to restore, improve, and enhance
 181.11 wildlife habitat on SNAs; increase public
 181.12 involvement and outreach; and strategically
 181.13 acquire high-quality lands that meet criteria
 181.14 for SNAs under Minnesota Statutes, section
 181.15 86A.05, from willing sellers.

181.16 **(b) Private Native Prairie Conservation through**
 181.17 **Native Prairie Bank**

181.18 \$2,000,000 the second year is from the trust
 181.19 fund to the commissioner of natural resources
 181.20 to provide technical stewardship assistance to
 181.21 private landowners, restore and enhance native
 181.22 prairie protected by easements in the native
 181.23 prairie bank, and acquire easements for the
 181.24 native prairie bank in accordance with
 181.25 Minnesota Statutes, section 84.96, including
 181.26 preparing initial baseline property assessments.
 181.27 Up to \$60,000 of this appropriation may be
 181.28 deposited in the natural resources conservation
 181.29 easement stewardship account, created in
 181.30 Minnesota Statutes, section 84.69, proportional
 181.31 to the number of easement acres acquired.

181.32 **(c) Minnesota State Parks and State Trails**
 181.33 **Inholdings**

181.34 \$3,500,000 the second year is from the trust
 181.35 fund to the commissioner of natural resources

182.1 to acquire high-priority inholdings from
182.2 willing sellers within the legislatively
182.3 authorized boundaries of state parks,
182.4 recreation areas, and trails to protect
182.5 Minnesota's natural heritage, enhance outdoor
182.6 recreation, and promote tourism.

182.7 **(d) Grants for Local Parks, Trails, and Natural**
182.8 **Areas**

182.9 \$2,400,000 the second year is from the trust
182.10 fund to the commissioner of natural resources
182.11 to solicit, rank, and fund competitive matching
182.12 grants for local parks, trail connections, and
182.13 natural and scenic areas under Minnesota
182.14 Statutes, section 85.019. This appropriation is
182.15 for local nature-based recreation, connections
182.16 to regional and state natural areas, and
182.17 recreation facilities and may not be used for
182.18 athletic facilities such as sport fields, courts,
182.19 and playgrounds.

182.20 **(e) Mississippi River Aquatic Habitat**
182.21 **Restoration and Mussel Reintroduction**

182.22 \$1,800,000 the second year is from the trust
182.23 fund. Of this amount, \$1,549,000 is to the
182.24 commissioner of natural resources for an
182.25 agreement with the Minneapolis Park and
182.26 Recreation Board and \$251,000 is to the
182.27 commissioner of natural resources to restore
182.28 lost habitat and reintroduce mussels in the
182.29 Mississippi River above St. Anthony Falls.
182.30 This work includes creating habitat and
182.31 species restoration plans, implementing the
182.32 restoration plans, and monitoring effectiveness
182.33 of the restoration for multiple years after
182.34 implementation. This appropriation is
182.35 available until June 30, 2027, by which time

- 183.1 the project must be completed and final
183.2 products delivered.
- 183.3 **(f) Minnesota Hunter Walking Trails: Public**
183.4 **Land Recreational Access**
- 183.5 \$300,000 the second year is from the trust
183.6 fund to the commissioner of natural resources
183.7 for an agreement with the Ruffed Grouse
183.8 Society to improve Minnesota's hunter
183.9 walking trail system by restoring or upgrading
183.10 trailheads and trails, developing new walking
183.11 trails, and compiling enhanced maps for use
183.12 by managers and the public.
- 183.13 **(g) Turning Back to Rivers: Environmental and**
183.14 **Recreational Protection**
- 183.15 \$1,000,000 the second year is from the trust
183.16 fund to the commissioner of natural resources
183.17 for an agreement with The Trust for Public
183.18 Land to help local communities acquire
183.19 priority land along the Mississippi, St. Croix,
183.20 and Minnesota Rivers and their tributaries to
183.21 protect natural resources, provide buffers for
183.22 flooding, and improve access for recreation.
- 183.23 **(h) Metropolitan Regional Parks System Land**
183.24 **Acquisition - Phase VI**
- 183.25 \$1,000,000 the second year is from the trust
183.26 fund to the Metropolitan Council for grants to
183.27 acquire land within the approved park
183.28 boundaries of the metropolitan regional park
183.29 system. This appropriation must be matched
183.30 by at least 40 percent of nonstate money.
- 183.31 **(i) Minnesota State Trails Development**
- 183.32 \$994,000 the second year is from the trust
183.33 fund to the commissioner of natural resources
183.34 to expand high-priority recreational
183.35 opportunities on Minnesota's state trails by

184.1 rehabilitating, improving, and enhancing
184.2 existing state trails. The high-priority trail
184.3 bridges to be rehabilitated or replaced under
184.4 this appropriation include, but are not limited
184.5 to, those on the Taconite, Great River Ridge,
184.6 and C. J. Ramstad/Northshore State Trails.

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

184.8 \$500,000 the second year is from the trust
184.9 fund to the commissioner of natural resources
184.10 for an agreement with the city of Champlin to
184.11 conduct habitat and stream restoration of
184.12 approximately 0.7 miles of Elm Creek
184.13 shoreline above Mill Pond Lake and through
184.14 the Elm Creek Protection Area.

184.15 **(k) Superior Hiking Trail as Environmental**
184.16 **Showcase**

184.17 \$450,000 the second year is from the trust
184.18 fund to the commissioner of natural resources
184.19 for an agreement with the Superior Hiking
184.20 Trail Association to rebuild damaged and
184.21 dangerous segments and create a new trail
184.22 segment of the Superior Hiking Trail to
184.23 minimize environmental impacts, make the
184.24 trail safer for users, and make the trail more
184.25 resilient for future use and conditions.

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

184.27 \$2,800,000 the second year is from the trust
184.28 fund to the commissioner of natural resources
184.29 for an agreement with the Friends of the Lock
184.30 and Dam in partnership with the city of
184.31 Minneapolis to design and install green
184.32 infrastructure, public access, and habitat
184.33 restorations on riverfront land at Upper St.
184.34 Anthony Falls for water protection, recreation,
184.35 and environmental education purposes. Of this

185.1 amount, up to \$600,000 is for planning,
 185.2 design, and engagement. No funds from this
 185.3 appropriation may be spent until Congress
 185.4 directs the U.S. Army Corps of Engineers to
 185.5 convey an interest in the Upper St. Anthony
 185.6 Falls property to the city of Minneapolis for
 185.7 use as a visitor center. After this congressional
 185.8 act is signed into law, up to \$100,000 of the
 185.9 planning, design, and engagement funds may
 185.10 be spent. The remaining planning, design, and
 185.11 engagement funds may be spent after a binding
 185.12 agreement has been secured to acquire the land
 185.13 or access and use rights to the land for at least
 185.14 25 years. Any remaining balance of the
 185.15 appropriation may be spent on installing
 185.16 enhancements after the Upper St. Anthony
 185.17 Falls land has been acquired by the city of
 185.18 Minneapolis.

185.19 **(m) Whiskey Creek and Mississippi River Water**
 185.20 **Quality, Habitat, and Recreation**

185.21 \$500,000 the second year is from the trust
 185.22 fund to the commissioner of natural resources
 185.23 for an agreement with the Mississippi
 185.24 Headwaters Board to acquire and transfer
 185.25 approximately 13 acres of land to the city of
 185.26 Baxter for future construction of water quality,
 185.27 habitat, and recreational improvements to
 185.28 protect the Mississippi River.

185.29 **(n) Perham to Pelican Rapids Regional Trail**
 185.30 **(West Segment)**

185.31 \$2,600,000 the second year is from the trust
 185.32 fund to the commissioner of natural resources
 185.33 for an agreement with Otter Tail County to
 185.34 construct the west segment of the 32-mile
 185.35 Perham to Pelican Rapids Regional Trail that

- 186.1 will connect the city of Pelican Rapids to
186.2 Maplewood State Park.
- 186.3 **(o) Crow Wing County Community Natural**
186.4 **Area Acquisition**
- 186.5 \$400,000 the second year is from the trust
186.6 fund to the commissioner of natural resources
186.7 for an agreement with Crow Wing County to
186.8 acquire approximately 65 acres of land
186.9 adjacent to the historic fire tower property to
186.10 allow for diverse recreational opportunities
186.11 while protecting wildlife habitat and
186.12 preventing forest fragmentation. Any revenue
186.13 generated from selling products or assets
186.14 developed or acquired with this appropriation
186.15 must be repaid to the trust fund unless a plan
186.16 is approved for reinvestment of income in the
186.17 project as provided under Minnesota Statutes,
186.18 section 116P.10.
- 186.19 **(p) Rocori Trail - Phase III**
- 186.20 \$1,200,000 the second year is from the trust
186.21 fund to the commissioner of natural resources
186.22 for an agreement with the Rocori Trail
186.23 Construction Board to design and construct
186.24 Phase III of the Rocori Trail along the old
186.25 Burlington Northern Santa Fe rail corridor
186.26 between the cities of Cold Spring and
186.27 Rockville.
- 186.28 **(q) Mesabi Trail: New Trail and Additional**
186.29 **Funding**
- 186.30 \$1,000,000 the second year is from the trust
186.31 fund to the commissioner of natural resources
186.32 for an agreement with the St. Louis and Lake
186.33 Counties Regional Railroad Authority for
186.34 constructing the Mesabi Trail beginning at the
186.35 intersection of County Road 20 and Minnesota

187.1 State Highway 135 and terminating at 1st
187.2 Avenue North and 1st Street North in the city
187.3 of Biwabik in St. Louis County. This
187.4 appropriation may not be spent until all
187.5 Mesabi Trail projects funded with trust fund
187.6 appropriations before fiscal year 2020, with
187.7 the exception of the project funded under Laws
187.8 2017, chapter 96, section 2, subdivision 9,
187.9 paragraph (g), are completed.

187.10 **(r) Ranier Safe Harbor and Transient Dock on**
187.11 **Rainy Lake**

187.12 \$762,000 the second year is from the trust
187.13 fund to the commissioner of natural resources
187.14 for an agreement with the city of Ranier to
187.15 construct a dock that accommodates boats 26
187.16 feet or longer with the goal of increasing
187.17 public access for boat recreation on Rainy
187.18 Lake. Any revenue generated from selling
187.19 products or assets developed or acquired with
187.20 this appropriation must be repaid to the trust
187.21 fund unless a plan is approved for
187.22 reinvestment of income in the project as
187.23 provided under Minnesota Statutes, section
187.24 116P.10.

187.25 **(s) Crane Lake Voyageurs National Park**
187.26 **Campground and Visitor Center**

187.27 \$3,100,000 the second year is from the trust
187.28 fund to the commissioner of natural resources
187.29 for an agreement with the town of Crane Lake
187.30 to design and construct a new campground
187.31 and to plan and preliminarily prepare a site
187.32 for constructing a new Voyageurs National
187.33 Park visitor center on land acquired for these
187.34 purposes in Crane Lake. Any revenue
187.35 generated from selling products or assets
187.36 developed or acquired with this appropriation

188.1 must be repaid to the trust fund unless a plan
188.2 is approved for reinvestment of income in the
188.3 project as provided under Minnesota Statutes,
188.4 section 116P.10.

188.5 **(t) Chippewa County Acquisition, Recreation,**
188.6 **and Education**

188.7 \$160,000 the second year is from the trust
188.8 fund to the commissioner of natural resources
188.9 for an agreement with Chippewa County to
188.10 acquire wetland and floodplain forest and
188.11 abandoned gravel pits along the Minnesota
188.12 River to provide water filtration, education,
188.13 and recreational opportunities.

188.14 **(u) Sportsmen's Training and Developmental**
188.15 **Learning Center**

188.16 \$85,000 the second year is from the trust fund
188.17 to the commissioner of natural resources for
188.18 an agreement with the Minnesota Forest Zone
188.19 Trappers Association to complete a site
188.20 evaluation and master plan for the Sportsmen's
188.21 Training and Developmental Learning Center
188.22 near Hibbing. Any revenue generated from
188.23 selling products or assets developed or
188.24 acquired with this appropriation must be
188.25 repaid to the trust fund unless a plan is
188.26 approved for reinvestment of income in the
188.27 project as provided under Minnesota Statutes,
188.28 section 116P.10.

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

188.30 \$350,000 the second year is from the trust
188.31 fund to the commissioner of natural resources
188.32 for a grant to the city of Babbitt to expand the
188.33 Birch Lake Recreation Area by adding a new
188.34 campground to include new campsites,

- 189.1 restrooms, and other facilities. This
 189.2 appropriation is available until June 30, 2025.
- 189.3 **Subd. 10. Emerging Issues**
 189.4 **Account; Wastewater**
 189.5 **Renewable Energy**
 189.6 **Demonstration Grants** -0- 1,095,000
- 189.7 \$1,095,000 the second year is from the trust
 189.8 fund to an emerging issues account authorized
 189.9 in Minnesota Statutes, section 116P.08,
 189.10 subdivision 4, paragraph (d). Money
 189.11 appropriated under this subdivision must be
 189.12 used for grants in consultation with the Public
 189.13 Facilities Authority for renewable energy
 189.14 demonstration projects at wastewater treatment
 189.15 facilities.
- 189.16 **Subd. 11. Contract**
 189.17 **Agreement Reimbursement** -0- 135,000
- 189.18 \$135,000 the second year is from the trust
 189.19 fund to the commissioner of natural resources,
 189.20 at the direction of the Legislative-Citizen
 189.21 Commission on Minnesota Resources, for
 189.22 expenses incurred for preparing and
 189.23 administering contracts for the agreements
 189.24 specified in this section. The commissioner
 189.25 must provide documentation to the
 189.26 Legislative-Citizen Commission on Minnesota
 189.27 Resources on the expenditure of these funds.
- 189.28 **Subd. 12. Availability of Appropriations**
- 189.29 Money appropriated in this section may not
 189.30 be spent on activities unless they are directly
 189.31 related to and necessary for a specific
 189.32 appropriation and are specified in the work
 189.33 plan approved by the Legislative-Citizen
 189.34 Commission on Minnesota Resources. Money
 189.35 appropriated in this section must not be spent
 189.36 on indirect costs or other institutional overhead

190.1 charges that are not directly related to and
190.2 necessary for a specific appropriation. Costs
190.3 that are directly related to and necessary for
190.4 an appropriation, including financial services,
190.5 human resources, information services, rent,
190.6 and utilities, are eligible only if the costs can
190.7 be clearly justified and individually
190.8 documented specific to the appropriation's
190.9 purpose and would not be generated by the
190.10 recipient but for receipt of the appropriation.
190.11 No broad allocations for costs in either dollars
190.12 or percentages are allowed. Unless otherwise
190.13 provided, the amounts in this section are
190.14 available until June 30, 2024, when projects
190.15 must be completed and final products
190.16 delivered. For acquisition of real property, the
190.17 appropriations in this section are available for
190.18 an additional fiscal year if a binding contract
190.19 for acquisition of the real property is entered
190.20 into before the expiration date of the
190.21 appropriation. If a project receives a federal
190.22 grant, the time period of the appropriation is
190.23 extended to equal the federal grant period.
190.24 **Subd. 13. Data Availability Requirements**
190.25 Data collected by the projects funded under
190.26 this section must conform to guidelines and
190.27 standards adopted by MN.IT Services. Spatial
190.28 data must also conform to additional
190.29 guidelines and standards designed to support
190.30 data coordination and distribution that have
190.31 been published by the Minnesota Geospatial
190.32 Information Office. Descriptions of spatial
190.33 data must be prepared as specified in the state's
190.34 geographic metadata guideline and must be
190.35 submitted to the Minnesota Geospatial

191.1 Information Office. All data must be
191.2 accessible and free to the public unless made
191.3 private under the Data Practices Act,
191.4 Minnesota Statutes, chapter 13. To the extent
191.5 practicable, summary data and results of
191.6 projects funded under this section should be
191.7 readily accessible on the Internet and
191.8 identified as having received funding from the
191.9 environment and natural resources trust fund.

191.10 **Subd. 14. Project Requirements**

191.11 (a) As a condition of accepting an
191.12 appropriation under this section, an agency or
191.13 entity receiving an appropriation or a party to
191.14 an agreement from an appropriation must
191.15 comply with paragraphs (b) to (l) and
191.16 Minnesota Statutes, chapter 116P, and must
191.17 submit a work plan and annual or semiannual
191.18 progress reports in the form determined by the
191.19 Legislative-Citizen Commission on Minnesota
191.20 Resources for any project funded in whole or
191.21 in part with funds from the appropriation.
191.22 Modifications to the approved work plan and
191.23 budget expenditures must be made through
191.24 the amendment process established by the
191.25 Legislative-Citizen Commission on Minnesota
191.26 Resources.

191.27 (b) A recipient of money appropriated in this
191.28 section that conducts a restoration using funds
191.29 appropriated in this section must use native
191.30 plant species according to the Board of Water
191.31 and Soil Resources' native vegetation
191.32 establishment and enhancement guidelines
191.33 and include an appropriate diversity of native
191.34 species selected to provide habitat for
191.35 pollinators throughout the growing season as

192.1 required under Minnesota Statutes, section
192.2 84.973.

192.3 (c) For all restorations conducted with money
192.4 appropriated under this section, a recipient
192.5 must prepare an ecological restoration and
192.6 management plan that, to the degree
192.7 practicable, is consistent with the
192.8 highest-quality conservation and ecological
192.9 goals for the restoration site. Consideration
192.10 should be given to soil, geology, topography,
192.11 and other relevant factors that would provide
192.12 the best chance for long-term success and
192.13 durability of the restoration project. The plan
192.14 must include the proposed timetable for
192.15 implementing the restoration, including site
192.16 preparation, establishment of diverse plant
192.17 species, maintenance, and additional
192.18 enhancement to establish the restoration;
192.19 identify long-term maintenance and
192.20 management needs of the restoration and how
192.21 the maintenance, management, and
192.22 enhancement will be financed; and take
192.23 advantage of the best-available science and
192.24 include innovative techniques to achieve the
192.25 best restoration.

192.26 (d) An entity receiving an appropriation in this
192.27 section for restoration activities must provide
192.28 an initial restoration evaluation at the
192.29 completion of the appropriation and an
192.30 evaluation three years after the completion of
192.31 the expenditure. Restorations must be
192.32 evaluated relative to the stated goals and
192.33 standards in the restoration plan, current
192.34 science, and, when applicable, the Board of
192.35 Water and Soil Resources' native vegetation

- 193.1 establishment and enhancement guidelines.
- 193.2 The evaluation must determine whether the
- 193.3 restorations are meeting planned goals,
- 193.4 identify any problems with implementing the
- 193.5 restorations, and, if necessary, give
- 193.6 recommendations on improving restorations.
- 193.7 The evaluation must be focused on improving
- 193.8 future restorations.
- 193.9 (e) All restoration and enhancement projects
- 193.10 funded with money appropriated in this section
- 193.11 must be on land permanently protected by a
- 193.12 conservation easement or public ownership.
- 193.13 (f) A recipient of money from an appropriation
- 193.14 under this section must give consideration to
- 193.15 contracting with Conservation Corps
- 193.16 Minnesota for contract restoration and
- 193.17 enhancement services.
- 193.18 (g) All conservation easements acquired with
- 193.19 money appropriated under this section must:
- 193.20 (1) be permanent;
- 193.21 (2) specify the parties to an easement in the
- 193.22 easement;
- 193.23 (3) specify all of the provisions of an
- 193.24 agreement that are permanent;
- 193.25 (4) be sent to the Legislative-Citizen
- 193.26 Commission on Minnesota Resources in an
- 193.27 electronic format at least ten business days
- 193.28 before closing;
- 193.29 (5) include a long-term monitoring and
- 193.30 enforcement plan and funding for monitoring
- 193.31 and enforcing the easement agreement; and
- 193.32 (6) include requirements in the easement
- 193.33 document to protect the quantity and quality

194.1 of groundwater and surface water through
194.2 specific activities such as keeping water on
194.3 the landscape, reducing nutrient and
194.4 contaminant loading, and not permitting
194.5 artificial hydrological modifications.

194.6 (h) For any acquisition of lands or interest in
194.7 lands, a recipient of money appropriated under
194.8 this section must not agree to pay more than
194.9 100 percent of the appraised value for a parcel
194.10 of land using this money to complete the
194.11 purchase, in part or in whole, except that up
194.12 to ten percent above the appraised value may
194.13 be allowed to complete the purchase, in part
194.14 or in whole, using this money if permission is
194.15 received in advance of the purchase from the
194.16 Legislative-Citizen Commission on Minnesota
194.17 Resources.

194.18 (i) For any acquisition of land or interest in
194.19 land, a recipient of money appropriated under
194.20 this section must give priority to high-quality
194.21 natural resources or conservation lands that
194.22 provide natural buffers to water resources.

194.23 (j) For new lands acquired with money
194.24 appropriated under this section, a recipient
194.25 must prepare an ecological restoration and
194.26 management plan in compliance with
194.27 paragraph (c), including sufficient funding for
194.28 implementation unless the work plan addresses
194.29 why a portion of the money is not necessary
194.30 to achieve a high-quality restoration.

194.31 (k) To ensure public accountability for using
194.32 public funds, a recipient of money
194.33 appropriated under this section must, within
194.34 60 days of the transaction, provide to the
194.35 Legislative-Citizen Commission on Minnesota

195.1 Resources documentation of the selection
195.2 process used to identify parcels acquired and
195.3 provide documentation of all related
195.4 transaction costs, including but not limited to
195.5 appraisals, legal fees, recording fees,
195.6 commissions, other similar costs, and
195.7 donations. This information must be provided
195.8 for all parties involved in the transaction. The
195.9 recipient must also report to the
195.10 Legislative-Citizen Commission on Minnesota
195.11 Resources any difference between the
195.12 acquisition amount paid to the seller and the
195.13 state-certified or state-reviewed appraisal, if
195.14 a state-certified or state-reviewed appraisal
195.15 was conducted.

195.16 (l) A recipient of an appropriation from the
195.17 trust fund under this section must acknowledge
195.18 financial support from the environment and
195.19 natural resources trust fund in project
195.20 publications, signage, and other public
195.21 communications and outreach related to work
195.22 completed using the appropriation.

195.23 Acknowledgment may occur, as appropriate,
195.24 through use of the trust fund logo or inclusion
195.25 of language attributing support from the trust
195.26 fund. Each direct recipient of money
195.27 appropriated in this section, as well as each
195.28 recipient of a grant awarded pursuant to this
195.29 section, must satisfy all reporting and other
195.30 requirements incumbent upon constitutionally
195.31 dedicated funding recipients as provided in
195.32 Minnesota Statutes, section 3.303, subdivision
195.33 10, and chapter 116P.

195.34 (m) A recipient of an appropriation from the
195.35 trust fund under this section that is receiving

196.1 funding to conduct children's services, as
196.2 defined in Minnesota Statutes, section
196.3 299C.61, subdivision 7, must certify to the
196.4 commission, as part of the required work plan,
196.5 that it performs criminal background checks
196.6 for background check crimes, as defined in
196.7 Minnesota Statutes, section 299C.61,
196.8 subdivision 2, on all employees, contractors,
196.9 and volunteers that have or may have access
196.10 to a child to whom the recipient provides
196.11 children's services using the appropriation.

196.12 **Subd. 15. Payment Conditions and**
196.13 **Capital-Equipment Expenditures**

196.14 (a) All agreements, grants, or contracts
196.15 referred to in this section must be administered
196.16 on a reimbursement basis unless otherwise
196.17 provided in this section. Notwithstanding
196.18 Minnesota Statutes, section 16A.41,
196.19 expenditures made on or after July 1, 2020,
196.20 or the date the work plan is approved,
196.21 whichever is later, are eligible for
196.22 reimbursement unless otherwise provided in
196.23 this section. Periodic payments must be made
196.24 upon receiving documentation that the
196.25 deliverable items articulated in the approved
196.26 work plan have been achieved, including
196.27 partial achievements as evidenced by approved
196.28 progress reports. Reasonable amounts may be
196.29 advanced to projects to accommodate
196.30 cash-flow needs or match federal money. The
196.31 advances must be approved as part of the work
196.32 plan. No expenditures for capital equipment
196.33 are allowed unless expressly authorized in the
196.34 project work plan.

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

197.3 **Subd. 16. Purchasing Recycled and Recyclable**
197.4 **Materials**

197.5 A political subdivision, public or private
197.6 corporation, or other entity that receives an
197.7 appropriation under this section must use the
197.8 appropriation in compliance with Minnesota
197.9 Statutes, section 16C.0725, regarding
197.10 purchasing recycled, repairable, and durable
197.11 materials and Minnesota Statutes, section
197.12 16C.073, regarding purchasing and using
197.13 paper stock and printing.

197.14 **Subd. 17. Energy Conservation and Sustainable**
197.15 **Building Guidelines**

197.16 A recipient to whom an appropriation is made
197.17 under this section for a capital improvement
197.18 project must ensure that the project complies
197.19 with the applicable energy conservation and
197.20 sustainable building guidelines and standards
197.21 contained in law, including Minnesota
197.22 Statutes, sections 16B.325, 216C.19, and
197.23 216C.20, and rules adopted under those
197.24 sections. The recipient may use the energy
197.25 planning, advocacy, and State Energy Office
197.26 units of the Department of Commerce to
197.27 obtain information and technical assistance
197.28 on energy conservation and alternative-energy
197.29 development relating to planning and
197.30 constructing the capital improvement project.

197.31 **Subd. 18. Accessibility**

197.32 Structural and nonstructural facilities must
197.33 meet the design standards in the Americans
197.34 with Disabilities Act (ADA) accessibility
197.35 guidelines.

198.1 **Subd. 19. Carryforward; Extension**

198.2 (a) The availability of the appropriations for
198.3 the following projects is extended to June 30,
198.4 2022:

198.5 (1) Laws 2017, chapter 96, section 2,
198.6 subdivision 8, paragraph (k), Conservation
198.7 Reserve Enhancement Program (CREP)
198.8 Outreach and Implementation; and

198.9 (2) Laws 2018, chapter 214, article 4, section
198.10 2, subdivision 6, paragraph (b), Palmer
198.11 Amaranth Detection and Eradication
198.12 Continuation.

198.13 (b) The availability of the appropriations for
198.14 the following projects is extended to June 30,
198.15 2023:

198.16 (1) Laws 2018, chapter 214, article 4, section
198.17 2, subdivision 10, Emerging Issues Account;
198.18 and

198.19 (2) Laws 2019, First Special Session chapter
198.20 4, article 2, section 2, subdivision 8, paragraph
198.21 (f), Lawns to Legumes.

198.22 (c) The availability of the appropriation under
198.23 Laws 2018, chapter 214, article 4, section 2,
198.24 subdivision 4, paragraph (l), Lake Agnes
198.25 Treatment, is extended to June 30, 2024.

198.26 **Subd. 20. Transfers**

198.27 **(a) Sauk River Dam Removal Transfers**

198.28 The appropriation in Laws 2019, First Special
198.29 Session chapter 4, article 2, section 2,
198.30 subdivision 8, paragraph (c), Sauk River Dam
198.31 Removal and Rock Rapids Replacement, in
198.32 the amount of \$2,768,000, no longer needed

199.1 for its original purpose is transferred as
199.2 follows:

199.3 (1) \$482,000 is transferred to the Science
199.4 Museum of Minnesota to determine how,
199.5 when, and why lakes in pristine areas of the
199.6 state without obvious nutrient loading are
199.7 experiencing algal blooms;

199.8 (2) \$700,000 is transferred to the
199.9 commissioner of the Minnesota Pollution
199.10 Control Agency, in partnership with the
199.11 Minnesota Rural Water Association and the
199.12 University of Minnesota's technical assistance
199.13 program, to implement a program to optimize
199.14 existing pond wastewater treatment systems
199.15 to increase nutrient removal and improve
199.16 efficiency without requiring costly upgrades;

199.17 (3) \$750,000 is transferred to the Board of
199.18 Regents of the University of Minnesota for
199.19 academic and applied research through the
199.20 MnDRIVE program at the Natural Resources
199.21 Research Institute to develop and demonstrate
199.22 technologies that enhance the long-term health
199.23 and management of Minnesota's mineral and
199.24 water resources. Of this amount, \$300,000 is
199.25 to support demonstration of three sulfate
199.26 reduction technologies for improved water
199.27 quality, and \$450,000 is for continued
199.28 characterization of Minnesota iron resources
199.29 and for developing next-generation
199.30 technologies and iron products. This research
199.31 must be conducted in consultation with the
199.32 Mineral Coordinating Committee established
199.33 under Minnesota Statutes, section 93.0015;

199.34 (4) \$500,000 is transferred to the
199.35 commissioner of the Pollution Control Agency

200.1 for activities, training, and grants that reduce
200.2 chloride pollution. Of this amount, \$250,000
200.3 is for grants for upgrading, optimizing, or
200.4 replacing water softener units. Priority for
200.5 grants must be given to facilities needing
200.6 improvements to comply with chloride water
200.7 quality standards; and

200.8 (5) \$336,000 is transferred to the Board of
200.9 Regents of the University of Minnesota to
200.10 study chronic wasting disease prions in soils,
200.11 including the assessment of sites where
200.12 carcasses with chronic wasting disease have
200.13 been disposed.

200.14 **(b) Lawns to Legumes**

200.15 The following amounts, estimated to be
200.16 \$880,000, are transferred to the Board of
200.17 Water and Soil Resources for demonstration
200.18 projects that provide grants or payments to
200.19 plant residential lawns with native vegetation
200.20 and pollinator-friendly forbs and legumes to
200.21 protect a diversity of pollinators. The board
200.22 must establish criteria for grants or payments
200.23 awarded under this clause. Grants or payments
200.24 awarded under this clause may be made for
200.25 up to 75 percent of the costs of the project,
200.26 except that in areas identified by the United
200.27 States Fish and Wildlife Service as areas
200.28 where there is a high potential for rusty
200.29 patched bumble bees to be present, grants may
200.30 be awarded for up to 90 percent of the costs
200.31 of the project:

200.32 (1) the unencumbered amount, estimated to
200.33 be \$380,000, in Laws 2016, chapter 186,
200.34 section 2, subdivision 9, paragraph (b),

201.1 Minnesota Point Pine Forest Scientific and
201.2 Natural Area Acquisition; and
201.3 (2) the unencumbered amount, estimated to
201.4 be \$500,000, in Laws 2018, chapter 214,
201.5 article 4, section 2, subdivision 6, paragraph
201.6 (d), Developing RNA Interference to Control
201.7 Zebra Mussels.

201.8 **(c) Emerging Issues Account**

201.9 The following amounts, estimated to be
201.10 \$284,000, are transferred to an emerging
201.11 issues account authorized in Minnesota
201.12 Statutes, section 116P.08, subdivision 4,
201.13 paragraph (d):

201.14 (1) the unencumbered amount, estimated to
201.15 be \$100,000, in Laws 2015, chapter 76,
201.16 section 2, subdivision 8, paragraph (b),
201.17 Propagating Native Plants and Restoring
201.18 Diverse Habitats;

201.19 (2) the unencumbered amount, estimated to
201.20 be \$50,000, in Laws 2016, chapter 186,
201.21 section 2, subdivision 6, paragraph (c),
201.22 Advancing Microbial Invasive Species
201.23 Monitoring from Ballast Discharge;

201.24 (3) the unencumbered amount, estimated to
201.25 be \$11,000, in Laws 2017, chapter 96, section
201.26 2, subdivision 5, paragraph (a), Connecting
201.27 Youth to Minnesota Waterways through
201.28 Outdoor Classrooms;

201.29 (4) the unencumbered amount, estimated to
201.30 be \$43,000, in Laws 2017, chapter 96, section
201.31 2, subdivision 5, paragraph (e), Local Planning
201.32 and Implementation Efforts for Bird Habitat;

202.1 (5) the unencumbered amount, estimated to
 202.2 be \$30,000, in Laws 2017, chapter 96, section
 202.3 2, subdivision 8, paragraph (a), Optimizing
 202.4 the Nutrition of Roadside Plants for
 202.5 Pollinators;

202.6 (6) the unencumbered amount, estimated to
 202.7 be \$10,000, in Laws 2017, chapter 96, section
 202.8 2, subdivision 8, paragraph (f), Prescribed-Fire
 202.9 Management for Roadside Prairies;

202.10 (7) the unencumbered amount, estimated to
 202.11 be \$20,000, in Laws 2018, chapter 214, article
 202.12 4, section 2, subdivision 4, paragraph (a), Pilot
 202.13 Program to Optimize Local Mechanical and
 202.14 Pond Wastewater-Treatment Plants; and

202.15 (8) the unencumbered amount, estimated to
 202.16 be \$20,000, in Laws 2018, chapter 214, article
 202.17 4, section 2, subdivision 6, paragraph (e),
 202.18 Install and Evaluate an Invasive Carp
 202.19 Deterrent for Mississippi River Locks and
 202.20 Dams.

202.21 **(d) Transfers and Availability**

202.22 The transfers under this subdivision are
 202.23 effective June 30, 2021, and the transferred
 202.24 amounts are available until June 30, 2023.

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

202.27 **Subd. 9. Land Acquisition,**
 202.28 **Habitat, and Recreation**

999,000

13,533,000

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202.29 **(a) Metropolitan Regional Parks System Land**
 202.30 **Acquisition**

202.31 \$1,500,000 the first year is from the trust fund
 202.32 to the Metropolitan Council for grants to
 202.33 acquire approximately 70 acres of land within
 202.34 the approved park boundaries of the

203.1 metropolitan regional park system. This
203.2 appropriation may not be used to purchase
203.3 habitable residential structures. A list of
203.4 proposed fee title acquisitions must be
203.5 provided as part of the required work plan.
203.6 This appropriation must be matched by at least
203.7 40 percent of nonstate money that must be
203.8 committed by December 31, 2017. This
203.9 appropriation is available until June 30, 2020,
203.10 by which time the project must be completed
203.11 and final products delivered.

203.12 **(b) Scientific and Natural Areas Acquisition and**
203.13 **Restoration, Citizen Science, and Engagement**

203.14 \$2,500,000 the first year is from the trust fund
203.15 to the commissioner of natural resources to
203.16 acquire land with high-quality native plant
203.17 communities and rare features to be
203.18 established as scientific and natural areas as
203.19 provided in Minnesota Statutes, section
203.20 86A.05, subdivision 5, restore and improve
203.21 scientific and natural areas, and provide
203.22 technical assistance and outreach, including
203.23 site steward events. At least one-third of the
203.24 appropriation must be spent on restoration
203.25 activities. A list of proposed acquisitions and
203.26 restorations must be provided as part of the
203.27 required work plan. Land acquired with this
203.28 appropriation must be sufficiently improved
203.29 to meet at least minimum management
203.30 standards, as determined by the commissioner
203.31 of natural resources. When feasible,
203.32 consideration must be given to accommodate
203.33 trails on lands acquired. This appropriation is
203.34 available until June 30, 2020, by which time
203.35 the project must be completed and final
203.36 products delivered.

204.1 **(c) Minnesota State Parks and State Trails Land**
204.2 **Acquisition**

204.3 \$1,500,000 the first year is from the trust fund
204.4 to the commissioner of natural resources to
204.5 acquire approximately 373 acres from willing
204.6 sellers for authorized state trails and critical
204.7 parcels within the statutory boundaries of state
204.8 parks. State park land acquired with this
204.9 appropriation must be sufficiently improved
204.10 to meet at least minimum management
204.11 standards, as determined by the commissioner
204.12 of natural resources. A list of proposed
204.13 acquisitions must be provided as part of the
204.14 required work plan. This appropriation is
204.15 available until June 30, 2020, by which time
204.16 the project must be completed and final
204.17 products delivered.

204.18 **(d) Minnesota State Trails Acquisition,**
204.19 **Development, and Enhancement**

204.20 \$999,000 in fiscal year 2017 and \$39,000 the
204.21 first year are from the trust fund to the
204.22 commissioner of natural resources for state
204.23 trail acquisition, development, and
204.24 enhancement in southern Minnesota. A
204.25 proposed list of trail projects on authorized
204.26 state trails must be provided as part of the
204.27 required work plan. This appropriation is
204.28 available until June 30, 2020, by which time
204.29 the project must be completed and final
204.30 products delivered.

204.31 **(e) Native Prairie Stewardship and Prairie Bank**
204.32 **Easement Acquisition**

204.33 \$2,675,000 the first year is from the trust fund
204.34 to the commissioner of natural resources to
204.35 acquire native prairie bank easements in
204.36 accordance with Minnesota Statutes, section

205.1 84.96, on approximately 250 acres, prepare
205.2 baseline property assessments, restore and
205.3 enhance native prairie sites, and provide
205.4 technical assistance to landowners. Of this
205.5 amount, up to \$132,000 may be deposited in
205.6 a conservation easement stewardship account.
205.7 Deposits into the conservation easement
205.8 stewardship account must be made upon
205.9 closing on conservation easements or at a time
205.10 otherwise approved in the work plan. A list of
205.11 proposed easement acquisitions must be
205.12 provided as part of the required work plan.
205.13 This appropriation is available until June 30,
205.14 2020, by which time the project must be
205.15 completed and final products delivered.

205.16 **(f) Leech Lake Acquisition**

205.17 \$1,500,000 the first year is from the trust fund
205.18 to the commissioner of natural resources for
205.19 an agreement with the Leech Lake Band of
205.20 Ojibwe to acquire approximately 45 acres,
205.21 including 0.67 miles of shoreline of
205.22 high-quality aquatic and wildlife habitat at the
205.23 historic meeting place between Henry
205.24 Schoolcraft and the Anishinabe people. The
205.25 land must be open to public use including
205.26 hunting and fishing. The band must provide a
205.27 commitment that land will not be put in a
205.28 federal trust through the Bureau of Indian
205.29 Affairs.

205.30 **(g) Mesabi Trail Development**

205.31 \$2,269,000 the first year is from the trust fund
205.32 to the commissioner of natural resources for
205.33 an agreement with the St. Louis and Lake
205.34 Counties Regional Railroad Authority for
205.35 engineering and constructing segments of the

206.1 Mesabi Trail. This appropriation is available
 206.2 until June 30, 2020, by which time the project
 206.3 must be completed and final products
 206.4 delivered.

206.5 **(h) Tower Trailhead Boat Landing and Habitat**
 206.6 **Improvement - Phase II**

206.7 \$600,000 the first year is from the trust fund
 206.8 to the commissioner of natural resources for
 206.9 an agreement with the city of Tower to
 206.10 construct a trailhead, trail connection to the
 206.11 Mesabi Trail, and boat landing and to restore
 206.12 vegetative habitat on city-owned property.
 206.13 Plant and seed materials must follow the Board
 206.14 of Water and Soil Resources' native vegetation
 206.15 establishment and enhancement guidelines.
 206.16 This appropriation is available until June 30,
 206.17 ~~2020~~ 2023, by which time the project must be
 206.18 completed and final products delivered.

206.19 **(i) Land Acquisition for Voyageurs National**
 206.20 **Park Crane Lake Visitors Center**

206.21 \$950,000 the first year is from the trust fund
 206.22 to the commissioner of natural resources for
 206.23 an agreement with the town of Crane Lake, in
 206.24 partnership with Voyageurs National Park and
 206.25 the Department of Natural Resources, to
 206.26 acquire approximately 30 acres to be used for
 206.27 a visitor center and campground. Income
 206.28 generated by the campground may be used to
 206.29 support the facility.

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

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

206.32 **Subd. 6. Aquatic and Terrestrial Invasive**
 206.33 **Species**

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5,760,000

206.34 **(a) Minnesota Invasive Terrestrial Plants and**
 206.35 **Pests Center - Phase 4**

207.1 \$3,500,000 the second year is from the trust
207.2 fund to the Board of Regents of the University
207.3 of Minnesota for high-priority research at the
207.4 Invasive Terrestrial Plants and Pests Center
207.5 to protect Minnesota's natural and agricultural
207.6 resources from terrestrial invasive plants,
207.7 pathogens, and pests as identified through the
207.8 center's strategic prioritization process. This
207.9 appropriation is available until June 30, 2023,
207.10 by which time the project must be completed
207.11 and final products delivered.

207.12 **(b) Palmer Amaranth Detection and Eradication**
207.13 **Continuation**

207.14 \$431,000 the second year is from the trust
207.15 fund to the commissioner of agriculture to
207.16 continue to monitor, ground survey, and
207.17 control Palmer amaranth and other prohibited
207.18 eradicate species of noxious weeds primarily
207.19 ~~in conservation plantings~~ natural areas and to
207.20 develop and implement aerial-survey methods
207.21 to prevent infestation and protect prairies,
207.22 other natural areas, and agricultural crops.

207.23 **(c) Evaluate Control Methods for Invasive**
207.24 **Hybrid Cattails**

207.25 \$131,000 the second year is from the trust
207.26 fund to the commissioner of natural resources
207.27 for an agreement with Voyageurs National
207.28 Park to evaluate the effectiveness of
207.29 mechanical harvesting and managing muskrat
207.30 populations to remove exotic hybrid cattails
207.31 and restore fish and wildlife habitat in
207.32 Minnesota wetlands. This appropriation is
207.33 available until June 30, 2021, by which time
207.34 the project must be completed and final
207.35 products delivered.

208.1 **(d) Developing RNA Interference to Control**
208.2 **Zebra Mussels**

208.3 \$500,000 the second year is from the trust
208.4 fund to the commissioner of natural resources
208.5 for an agreement with the United States
208.6 Geological Survey to develop a genetic control
208.7 tool that exploits the natural process of RNA
208.8 silencing to specifically target and effectively
208.9 control zebra mussels without affecting other
208.10 species or causing other nontarget effects. This
208.11 appropriation is available until June 30, 2021,
208.12 by which time the project must be completed
208.13 and final products delivered.

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

208.16 \$998,000 the second year is from the trust
208.17 fund to the Board of Regents of the University
208.18 of Minnesota in cooperation with the United
208.19 States Army Corps of Engineers and the
208.20 United States Fish and Wildlife Service to
208.21 install, evaluate, and optimize a system in
208.22 Mississippi River locks and dams to deter
208.23 passage of invasive carp without negatively
208.24 impacting native fish and to evaluate the
208.25 ability of predator fish in the pools above the
208.26 locks and dams to consume young carp. The
208.27 project must conduct a cost comparison of
208.28 equipment purchase versus lease options and
208.29 choose the most effective option. This
208.30 appropriation is available until June 30, 2021,
208.31 by which time the project must be completed
208.32 and final products delivered.

208.33 **(f) Determining Risk of Toxic Alga in Minnesota**
208.34 **Lakes**

208.35 \$200,000 the second year is from the trust
208.36 fund to the Science Museum of Minnesota for

209.1 the St. Croix Watershed Research Station to
209.2 determine the historical distribution,
209.3 abundance, and toxicity of the invasive
209.4 blue-green alga, *Cylindrospermopsis*
209.5 *raciborskii*, in about 20 lakes across Minnesota
209.6 and inform managers and the public about the
209.7 alga's spread and health risks. This
209.8 appropriation is available until June 30, 2021,
209.9 by which time the project must be completed
209.10 and final products delivered.

209.11 Sec. 5. **EFFECTIVE DATE.**

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