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State of Minnesota

HOUSE OF REPRESENTATIVES

NINETY-FOURTH SESSION

H. F. No. 1218

02/20/2025 Authored by Heintzeman and Backer
The bill was read for the first time and referred to the Committee on Environment and Natural Resources Finance and Policy
02/26/2025 Adoption of Report: Re-referred to the Committee on Ways and Means

1.1 A bill for an act
1.2 relating to environment; appropriating money from the environment and natural
1.3 resources trust fund; modifying prior appropriations; amending Laws 2024, chapter
1.4 83, section 2, subdivisions 3, 8.

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

1.6 Section 1. APPROPRIATIONS.

1.7 The sums shown in the columns marked "Appropriations" are appropriated to the agencies
1.8 and for the purposes specified in this act. The appropriations are from the environment and
1.9 natural resources trust fund, or another named fund, and are available for the fiscal years
1.10 indicated for each purpose. The figures "2026" and "2027" used in this act mean that the
1.11 appropriations listed under them are available for the fiscal year ending June 30, 2026, or
1.12 June 30, 2027, respectively. "The first year" is fiscal year 2026. "The second year" is fiscal
1.13 year 2027. "The biennium" is fiscal years 2026 and 2027. Any unencumbered balance
1.14 remaining in the first year does not cancel and is available for the second year or until the
1.15 end of the appropriation. These are onetime appropriations.

Table with 2 columns: 2026, 2027. Header: APPROPRIATIONS Available for the Year Ending June 30

1.20 Sec. 2. MINNESOTA RESOURCES

1.21 Subdivision 1. Total Appropriation \$ 103,326,000 \$ 0

1.22 This appropriation is from the environment
1.23 and natural resources trust fund. The amounts

2.1 that may be spent for each purpose are  
2.2 specified in the following subdivisions.

2.3 **Subd. 2. Definition**

2.4 "Trust fund" means the Minnesota  
2.5 environment and natural resources trust fund  
2.6 established under the Minnesota Constitution,  
2.7 article XI, section 14.

2.8 **Subd. 3. Foundational Natural Resource Data**  
2.9 **and Information**

22,084,000

-0-

2.10 **(a) Fond du Lac Deer Study - Phase 1**

2.11 \$1,441,000 the first year is from the trust fund  
2.12 to the Minnesota State Colleges and  
2.13 Universities for Bemidji State University to  
2.14 collect baseline deer demographic, movement,  
2.15 and habitat-use data before elk restoration to  
2.16 better inform management of both elk and deer  
2.17 populations on the Fond du Lac Reservation  
2.18 and surrounding areas.

2.19 **(b) Are All Walleye Created Equal? Probably**  
2.20 **Not.**

2.21 \$298,000 the first year is from the trust fund  
2.22 to the Board of Regents of the University of  
2.23 Minnesota to investigate Minnesota walleye  
2.24 strain physiology and disease responses to  
2.25 warming water and to build a tool to guide  
2.26 adaptive management of walleye in a warming  
2.27 climate.

2.28 **(c) Deer Survival Within Minnesota's Densest**  
2.29 **Wolf Population**

2.30 \$809,000 the first year is from the trust fund  
2.31 to the Board of Regents of the University of  
2.32 Minnesota to evaluate how wolves, winter  
2.33 severity, and habitat affect deer mortality and

3.1 survival across space and time within the  
3.2 Voyageurs region.

3.3 **(d) Evaluating Anticoagulant Rodenticide**  
3.4 **Exposure in Minnesota's Carnivores**

3.5 \$247,000 the first year is from the trust fund  
3.6 to the Board of Regents of the University of  
3.7 Minnesota for the Natural Resources Research  
3.8 Institute in Duluth to determine anticoagulant  
3.9 rodenticide exposure rates and concentrations  
3.10 in Minnesota bobcats and fishers, factors  
3.11 influencing exposure risk, and negative effects  
3.12 of rodenticide exposure on carnivore health.

3.13 **(e) Digitizing the Science Museum of**  
3.14 **Minnesota's Mollusk Specimens**

3.15 \$386,000 the first year is from the trust fund  
3.16 to the Science Museum of Minnesota to make  
3.17 the museum's Minnesota mollusk specimen  
3.18 collection available for research and education  
3.19 by identifying and organizing all relevant  
3.20 specimens and digitizing the museum's data.

3.21 **(f) Integrating Wildlife Objectives in Long-Term**  
3.22 **Forest Management Planning**

3.23 \$316,000 the first year is from the trust fund  
3.24 to the Board of Regents of the University of  
3.25 Minnesota to develop a harvest-scheduling  
3.26 model that integrates wildlife habitat metrics  
3.27 with timber production objectives in the  
3.28 forest-planning process for more sustainable  
3.29 forest landscape-level outcomes.

3.30 **(g) Surveying Minnesota's Secretive Marsh**  
3.31 **Birds**

3.32 \$413,000 the first year is from the trust fund  
3.33 to the commissioner of natural resources for  
3.34 an agreement with the National Audubon  
3.35 Society, Upper Mississippi River office, to

4.1 conduct a breeding marsh bird survey and  
4.2 provide state and federal agencies with an  
4.3 assessment of marsh bird population status  
4.4 and wetland habitat. This appropriation is  
4.5 available until June 30, 2029, by which time  
4.6 the project must be completed and final  
4.7 products delivered.

4.8 **(h) Improving Conservation Outcomes for**  
4.9 **Imperiled Wood Turtles**

4.10 \$242,000 the first year is from the trust fund  
4.11 to the Minnesota Zoological Society to restore  
4.12 imperiled wood turtles by increasing remnant  
4.13 populations, quantifying effectiveness of  
4.14 habitat management strategies, establishing  
4.15 baseline information on disease prevalence,  
4.16 and creating a new decision-support tool for  
4.17 prioritizing future conservation actions.

4.18 **(i) Maximizing the Impact of Wildlife Movement**  
4.19 **Data**

4.20 \$216,000 the first year is from the trust fund  
4.21 to the Board of Regents of the University of  
4.22 Minnesota to create a centralized and  
4.23 accessible database of wildlife movement data  
4.24 from prior trust fund-supported studies and  
4.25 demonstrate tools biologists can use to analyze  
4.26 these data to benefit Minnesota wildlife.

4.27 **(j) Expanding the Statewide Motus Wildlife**  
4.28 **Tracking Network**

4.29 \$234,000 the first year is from the trust fund  
4.30 to the Minnesota Zoological Society to expand  
4.31 the statewide Motus Wildlife Tracking System  
4.32 network into southwestern Minnesota and the  
4.33 North Shore to guide the conservation of  
4.34 imperiled grassland and boreal migratory birds  
4.35 and other wildlife. This appropriation may

5.1 also be used to develop outreach and  
5.2 interpretive materials for Motus sites.

5.3 **(k) Updating and Sharing Information on**  
5.4 **Minnesota's Tick Biodiversity**

5.5 \$186,000 the first year is from the trust fund  
5.6 to the Board of Regents of the University of  
5.7 Minnesota to collaborate with wildlife  
5.8 organizations and community scientists to  
5.9 survey the biodiversity and distribution of  
5.10 ticks in Minnesota and create a publicly  
5.11 accessible GIS dashboard to share results and  
5.12 potential disease implications with the public  
5.13 and wildlife managers.

5.14 **(l) Small Mammals and Hunter Participation:**  
5.15 **Expanded Offal Wildlife Watching**

5.16 \$563,000 the first year is from the trust fund  
5.17 to the Board of Regents of the University of  
5.18 Minnesota to expand and assess hunter  
5.19 participation in monitoring scavenger use of  
5.20 deer gut piles, assess small mammal  
5.21 occurrence and contaminant and disease  
5.22 exposure risk at offal sites, and study how  
5.23 messaging impacts hunters' use of lead  
5.24 ammunition.

5.25 **(m) Green Heron as an Indicator of**  
5.26 **Wetland-Dependent Species**

5.27 \$424,000 the first year is from the trust fund  
5.28 to the Board of Regents of the University of  
5.29 Minnesota to collect data on the year-round  
5.30 habitat use and migratory movements of green  
5.31 herons, assess potential factors leading to  
5.32 population decline, and identify conservation  
5.33 strategies to benefit the green heron and other  
5.34 wetland-dependent bird species.

6.1 **(n) Visualizing Minnesota's Natural Resources**  
6.2 **with CT Scanning**

6.3 \$955,000 the first year is from the trust fund  
6.4 to the Board of Regents of the University of  
6.5 Minnesota, Bell Museum of Natural History,  
6.6 to acquire a CT scanner, scan Bell Museum  
6.7 organismal specimens, create 3D prints from  
6.8 the scans, and share the data and prints through  
6.9 environmental education and research  
6.10 programs. The CT scanner purchased with this  
6.11 appropriation must prioritize use by and be  
6.12 made available cost-free to other  
6.13 Minnesota-focused researchers for the duration  
6.14 of this appropriation. This appropriation may  
6.15 also be used for equipment, tools, and supplies  
6.16 needed to acquire, install, and use the scanner  
6.17 and print 3D models of scanned organisms.  
6.18 Net income generated as part of this  
6.19 appropriation may be reinvested in the project  
6.20 if a plan for reinvestment is approved in the  
6.21 work plan as provided under Minnesota  
6.22 Statutes, section 116P.10.

6.23 **(o) Mapping Human-Carnivore Conflicts in**  
6.24 **Human-Dominated Landscapes**

6.25 \$563,000 the first year is from the trust fund  
6.26 to the Board of Regents of the University of  
6.27 Minnesota for the Natural Resources Research  
6.28 Institute in Duluth to evaluate bear, bobcat,  
6.29 and coyote habitat use, activity, and diet in  
6.30 Duluth and surrounding areas to map hotspots  
6.31 for human-carnivore conflicts and fill  
6.32 knowledge gaps to reduce conflicts. This  
6.33 appropriation is available until June 30, 2029,  
6.34 by which time the project must be completed  
6.35 and final products delivered.

7.1 **(p) Geologic Atlases for Water Resource**  
7.2 **Management**

7.3 \$1,260,000 the first year is from the trust fund  
7.4 to the Board of Regents of the University of  
7.5 Minnesota, Minnesota Geological Survey, to  
7.6 continue to produce geologic atlas maps and  
7.7 databases to inform management of  
7.8 groundwater and surface water. This  
7.9 appropriation is to complete Part A, which  
7.10 focuses on the properties and distribution of  
7.11 earth materials to define aquifer boundaries  
7.12 and the connection of aquifers to the land  
7.13 surface and surface water resources.

7.14 **(q) Leveraging Statewide Datasets for Native**  
7.15 **Rough Fish**

7.16 \$250,000 the first year is from the trust fund  
7.17 to the Board of Regents of the University of  
7.18 Minnesota to construct species distribution  
7.19 models that predict presence and abundance  
7.20 of native rough fish species and identify  
7.21 potential areas for protection, additional  
7.22 monitoring, or restoration across the state. This  
7.23 appropriation may also be used to build an  
7.24 interactive mapping tool and share results.

7.25 **(r) The Impacts of Climate Change on**  
7.26 **Northeastern Minnesota**

7.27 \$772,000 the first year is from the trust fund  
7.28 to the commissioner of natural resources for  
7.29 an agreement with Friends of the Boundary  
7.30 Waters Wilderness to work with collaborators  
7.31 to aggregate research, data, and other  
7.32 information about the impacts of climate  
7.33 change on the habitat and wildlife of  
7.34 northeastern Minnesota into a publicly  
7.35 available, web-based database. This  
7.36 appropriation is available until June 30, 2029,

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

8.3 **(s) Health and Disease Monitoring in Minnesota**  
 8.4 **Wildlife**

8.5 \$750,000 the first year is from the trust fund  
 8.6 to the Board of Regents of the University of  
 8.7 Minnesota, Minnesota Veterinary Diagnostic  
 8.8 Laboratory, to collaborate with wildlife  
 8.9 rehabilitation organizations and other wildlife  
 8.10 health professionals throughout Minnesota to  
 8.11 enhance the state's health and disease  
 8.12 surveillance, preparedness, and response  
 8.13 efforts.

8.14 **(t) Affordable Statewide Tracking of Forestry**  
 8.15 **Fragmentation and Degradation**

8.16 \$331,000 the first year is from the trust fund  
 8.17 to the Board of Regents of the University of  
 8.18 Minnesota to merge aircraft and satellite  
 8.19 LiDAR data to build a model and an  
 8.20 interactive real-time web dashboard of forest  
 8.21 boundaries that provides business-ready  
 8.22 information about statewide forest  
 8.23 fragmentation and degradation due to human  
 8.24 activities and natural disasters.

8.25 **(u) Safeguarding Bees While Monitoring**  
 8.26 **Pollinators and Nesting Habitats**

8.27 \$590,000 the first year is from the trust fund  
 8.28 to the Board of Regents of the University of  
 8.29 Minnesota to pioneer low-mortality methods  
 8.30 for monitoring bee populations and to  
 8.31 investigate nest habitat materials and  
 8.32 antimicrobial properties in cooperation with  
 8.33 community scientists and management  
 8.34 agencies. This appropriation is available until



9.1 June 30, 2029, by which time the project must  
 9.2 be completed and final products delivered.

9.3 **(v) Expanding the Application of Minnesota's**  
 9.4 **Wetland Monitoring Data**

9.5 \$312,000 the first year is from the trust fund  
 9.6 to the commissioner of natural resources to  
 9.7 use existing LiDAR and recurring aerial  
 9.8 photographs to determine state grassland  
 9.9 acreage and change over the last twenty years,  
 9.10 evaluate key drivers of wetland change, and  
 9.11 use technology to improve Minnesota's  
 9.12 wetland monitoring.

9.13 **(w) Enhancing the Value of Minnesota Public**  
 9.14 **Grasslands**

9.15 \$390,000 the first year is from the trust fund  
 9.16 to the Board of Regents of the University of  
 9.17 Minnesota to evaluate a combination of  
 9.18 prescribed fire, brush mowing, and targeted  
 9.19 conservation grazing to develop ready-to-use  
 9.20 management strategies for public land  
 9.21 managers to mitigate woody species  
 9.22 encroachment and increase biodiversity and  
 9.23 carbon sequestration in public grasslands.

9.24 **(x) Foundational Precision Agriculture Data to**  
 9.25 **Reduce Environmental Impacts**

9.26 \$1,255,000 the first year is from the trust fund  
 9.27 to the Board of Regents of the University of  
 9.28 Minnesota for the West Central Research and  
 9.29 Outreach Center at Morris to establish data  
 9.30 collection systems and methods at sentinel  
 9.31 farm sites, develop and evaluate best  
 9.32 management practices, and provide outreach  
 9.33 and training to farmers to encourage adoption  
 9.34 of precision agriculture technologies that

10.1 reduce fertilizer and chemical use and improve  
10.2 water and air quality.

10.3 **(y) Continued Aggregate Resource Mapping**

10.4 \$621,000 the first year is from the trust fund  
10.5 to the commissioner of natural resources to  
10.6 map the aggregate resource potential in the  
10.7 state of Minnesota and to make the  
10.8 information available in print and electronic  
10.9 format to local units of government to support  
10.10 informed land-use decisions and resource  
10.11 conservation.

10.12 **(z) Advancing Collaborative Wild Rice**  
10.13 **Monitoring Program Technologies**

10.14 \$900,000 the first year is from the trust fund  
10.15 to the commissioner of natural resources to  
10.16 continue efforts to create a framework for  
10.17 long-term wild rice monitoring for  
10.18 conservation and collaborate with Tribal and  
10.19 nongovernmental organizations to collect  
10.20 additional data, improve collection and  
10.21 analysis methods, and develop a statewide  
10.22 estimate of wild rice abundance and coverage.

10.23 **(aa) Conserving Natural Resources by**  
10.24 **Advancing Forever Green Agriculture**

10.25 \$2,146,000 the first year is from the trust fund  
10.26 to the Board of Regents of the University of  
10.27 Minnesota for the Forever Green Initiative to  
10.28 fund research projects to develop new  
10.29 perennial and winter-annual crops to protect  
10.30 water, wildlife, soil, other natural resources,  
10.31 and the climate. This appropriation is available  
10.32 until June 30, 2030, by which time the project  
10.33 must be completed and final products  
10.34 delivered.

11.1 **(bb) Minnesota's Priority Native Rough Fish:**  
 11.2 **Gars and Bowfin**

11.3 \$568,000 the first year is from the trust fund  
 11.4 to the Board of Regents of the University of  
 11.5 Minnesota to develop population dynamics,  
 11.6 habitat use, and food web models for  
 11.7 Minnesota gars and bowfins and conduct  
 11.8 outreach to inform conservation and  
 11.9 management and serve as a template for study  
 11.10 of Minnesota's other native rough fish species.

11.11 **(cc) Understanding to Improve Minnesota's**  
 11.12 **Future Lake Water Quality**

11.13 \$595,000 the first year is from the trust fund  
 11.14 to the Board of Regents of the University of  
 11.15 Minnesota to use decade-long comprehensive  
 11.16 lake, watershed, and weather data and  
 11.17 high-resolution climate models to understand  
 11.18 lake-specific drivers of water quality and  
 11.19 predict the effects of future warming on  
 11.20 harmful algal blooms across Minnesota.

11.21 **(dd) Operationalizing State Zooplankton Data**  
 11.22 **to Support Lake Health**

11.23 \$423,000 the first year is from the trust fund  
 11.24 to the Board of Regents of the University of  
 11.25 Minnesota to use long-term monitoring data  
 11.26 to determine the relationship between  
 11.27 zooplankton communities and ecosystem  
 11.28 services, like fisheries health and water  
 11.29 quality, and develop biotic indices for lake  
 11.30 health.

11.31 **(ee) Trialing Climate-Ready Woodland Trees**  
 11.32 **in Urban Areas**

11.33 \$255,000 the first year is from the trust fund  
 11.34 to the Board of Regents of the University of  
 11.35 Minnesota to demonstrate performance of

12.1 climate-adaptive tree species and study land  
 12.2 manager and public perceptions of these  
 12.3 species to identify the best species and risk  
 12.4 tolerance for future plantings in metropolitan  
 12.5 areas of Minnesota.

12.6 **(ff) Superior Shores: Protecting Our Great**  
 12.7 **Lakes Coastal Habitats**

12.8 \$675,000 the first year is from the trust fund  
 12.9 to the Science Museum of Minnesota for the  
 12.10 St. Croix Watershed Research Station to map  
 12.11 the locations and survey the biological  
 12.12 diversity and water quality of Lake Superior  
 12.13 coastal rock pools. This appropriation may  
 12.14 also be used to develop outreach materials and  
 12.15 host programs on rock pool understanding and  
 12.16 conservation.

12.17 **(gg) Recruitment and Fecundity of Minnesota**  
 12.18 **Moose**

12.19 \$2,007,000 the first year is from the trust fund  
 12.20 to the commissioner of natural resources for  
 12.21 state and Tribal biologists to work  
 12.22 collaboratively to estimate survival and  
 12.23 fecundity of yearling and 2-year-old moose in  
 12.24 northeast Minnesota to inform future  
 12.25 management efforts. Of this amount, \$841,000  
 12.26 is for an agreement with the 1854 Treaty  
 12.27 Authority. This appropriation is available until  
 12.28 June 30, 2031, by which time the project must  
 12.29 be completed and final products delivered.

12.30 **(hh) Fighting Insect Decline: Minnesota**  
 12.31 **Bumblebees to the Rescue**

12.32 \$249,000 the first year is from the trust fund  
 12.33 to the Board of Regents of the University of  
 12.34 Minnesota to map historical and current  
 12.35 bumblebee distribution and develop an

13.1 identification tool using molecular barcodes  
 13.2 and an online resource hub to improve  
 13.3 conservation of Minnesota's native  
 13.4 bumblebees.

13.5 **(ii) Trace Metals in Municipal Yard Waste and**  
 13.6 **Compost**

13.7 \$120,000 the first year is from the trust fund  
 13.8 to the Board of Regents of the University of  
 13.9 Minnesota to assess trace metal contamination  
 13.10 from collected residential yard waste, finished  
 13.11 compost, and compost leachate in municipal  
 13.12 yard waste recycling programs.

13.13 **(jj) Chronic Wasting Disease Prions in**  
 13.14 **Minnesota Waters**

13.15 \$322,000 the first year is from the trust fund  
 13.16 to the Board of Regents of the University of  
 13.17 Minnesota to evaluate the movement of  
 13.18 chronic wasting disease in Minnesota waters,  
 13.19 assess the risk of spread, and share results with  
 13.20 wildlife and watershed managers.

13.21 **Subd. 4. Water Resources**

11,812,000

-0-

13.22 **(a) Enhancing Our Resources - Rural Health**  
 13.23 **and Drinking Water**

13.24 \$994,000 the first year is from the trust fund  
 13.25 to the commissioner of natural resources for  
 13.26 an agreement with Freshwater Society to  
 13.27 partner with the Mayo Clinic to educate well  
 13.28 owners and family health providers about the  
 13.29 geologic occurrence and risk of arsenic in  
 13.30 drinking water. This appropriation is also to  
 13.31 provide free arsenic testing to well owners in  
 13.32 southeast Minnesota.

13.33 **(b) Restoration and Outreach for Minnesota's**  
 13.34 **Native Mussels**

14.1 \$1,258,000 the first year is from the trust fund  
14.2 to the commissioner of natural resources to  
14.3 propagate, rear, and restore native freshwater  
14.4 mussel populations and the ecosystem services  
14.5 they provide to Minnesota waters; to evaluate  
14.6 reintroduction success; and to inform the  
14.7 public on mussels and mussel conservation.

14.8 **(c) Pristine to Green: Toxic Blooms Threaten**  
14.9 **Northern Lakes**

14.10 \$1,362,000 the first year is from the trust fund  
14.11 to the Science Museum of Minnesota for the  
14.12 St. Croix Watershed Research Station to  
14.13 evaluate drivers that contribute to the  
14.14 formation of nuisance and toxic algal blooms  
14.15 in relatively pristine and protected lakes across  
14.16 Minnesota.

14.17 **(d) Training Lake Communities to Track**  
14.18 **Chloride and Algae**

14.19 \$274,000 the first year is from the trust fund  
14.20 to the Board of Regents of the University of  
14.21 Minnesota for the Minnesota Sea Grant  
14.22 college program in Duluth to develop and train  
14.23 a network of community-based volunteers to  
14.24 track chloride and harmful algal blooms in  
14.25 rural Minnesota lakes.

14.26 **(e) Clean Sweep Solution to Nonpoint Source**  
14.27 **Pollution**

14.28 \$386,000 the first year is from the trust fund  
14.29 to the Board of Regents of the University of  
14.30 Minnesota for the Water Resources Center to  
14.31 enhance Clean Sweep programs, identify the  
14.32 pollutants present in street-sweeping materials,  
14.33 explore material reuse options, and quantify  
14.34 benefits of enhanced street sweeping. This  
14.35 appropriation may also be used to coordinate

15.1 county and regional collaborations, develop  
 15.2 resources, and provide training to increase  
 15.3 targeted street-sweeping practices to reduce  
 15.4 nonpoint source pollution to Minnesota's water  
 15.5 resources.

15.6 **(f) Cyanotoxins in Minnesota Lakes: The Role**  
 15.7 **of Sunlight**

15.8 \$220,000 the first year is from the trust fund  
 15.9 to the Board of Regents of the University of  
 15.10 Minnesota to quantify degradation of  
 15.11 cyanobacterial toxins by sunlight to understand  
 15.12 how increasing frequency of harmful algal  
 15.13 blooms and changing environmental  
 15.14 conditions influence toxin persistence in  
 15.15 natural waters.

15.16 **(g) Enhancing Degradation of Emerging**  
 15.17 **Contaminants via Microbial Starvation**

15.18 \$390,000 the first year is from the trust fund  
 15.19 to the Board of Regents of the University of  
 15.20 Minnesota to study how wastewater treatment  
 15.21 systems can be improved to more effectively  
 15.22 biodegrade mixtures of pharmaceuticals,  
 15.23 pesticides, and other contaminants of emerging  
 15.24 concern and protect Minnesota's water  
 15.25 resources.

15.26 **(h) Soil Health Management for Water Storage**

15.27 \$454,000 the first year is from the trust fund  
 15.28 to the Board of Regents of the University of  
 15.29 Minnesota for the Water Resources Center to  
 15.30 conduct on-farm and model-based research  
 15.31 and develop guidance for watershed planners  
 15.32 and land managers to effectively use soil  
 15.33 health management to achieve water storage  
 15.34 and water quality goals.

16.1 **(i) Predicting Contaminant Movement in**  
 16.2 **Minnesota's Fractured Aquifers**

16.3 \$650,000 the first year is from the trust fund  
 16.4 to the Board of Regents of the University of  
 16.5 Minnesota, St. Anthony Falls Laboratory, to  
 16.6 develop a software program that predicts the  
 16.7 fate and movement of contaminants, such as  
 16.8 PFAS, chloride, nitrate, and pathogens, in  
 16.9 Minnesota's fractured aquifers.

16.10 **(j) Documentation and Toxicity of Microplastics**  
 16.11 **in Urban Ecosystems**

16.12 \$300,000 the first year is from the trust fund  
 16.13 to the Board of Regents of the University of  
 16.14 Minnesota to research how land use and  
 16.15 toxicity affect the accumulation of  
 16.16 microplastics and associated contaminants of  
 16.17 concern in stormwater ponds and the wildlife  
 16.18 that use stormwater ponds.

16.19 **(k) Terminating PFAS-Type Pesticides via**  
 16.20 **Enzyme Cocktails**

16.21 \$297,000 the first year is from the trust fund  
 16.22 to the Board of Regents of the University of  
 16.23 Minnesota to evaluate the ability of selected  
 16.24 enzymes and combinations of enzymes to  
 16.25 biodegrade per- and polyfluoroalkyl  
 16.26 substances (PFAS) found in pesticides and to  
 16.27 design a pilot-scale biofilter for effective  
 16.28 elimination of PFAS from water.

16.29 **(l) Addressing 21st Century Challenges for the**  
 16.30 **St. Croix**

16.31 \$243,000 the first year is from the trust fund  
 16.32 to the Science Museum of Minnesota for the  
 16.33 St. Croix Watershed Research Station to  
 16.34 develop a watershed model to identify  
 16.35 potential hydrologic and water quality impacts



17.1 to the lower St. Croix River over the next 75  
 17.2 years and inform future planning and  
 17.3 management in the watershed.

17.4 **(m) Impact of Statewide Conservation Practices**  
 17.5 **on Stream Biodiversity**

17.6 \$300,000 the first year is from the trust fund  
 17.7 to the Board of Regents of the University of  
 17.8 Minnesota to use existing monitoring data to  
 17.9 evaluate the effects of wetlands and riparian  
 17.10 buffers on stream and river biodiversity and  
 17.11 biological condition and develop tools and  
 17.12 materials to inform the public and natural  
 17.13 resource managers.

17.14 **(n) Modeling the Future Mississippi River Gorge**

17.15 \$427,000 the first year is from the trust fund  
 17.16 to the Board of Regents of the University of  
 17.17 Minnesota, St. Anthony Falls Laboratory, to  
 17.18 construct a reduced-scale physical model of  
 17.19 Mississippi River Pool 1, Lock & Dam 1, and  
 17.20 adjacent upstream and downstream reaches;  
 17.21 analyze water flow and sediment movement  
 17.22 under various pool management strategies;  
 17.23 and share results with the public to inform  
 17.24 decisions on the future management of the  
 17.25 lock and dam.

17.26 **(o) Highly Efficient Nutrient Removal**  
 17.27 **Technology for Agricultural Drainage**

17.28 \$453,000 the first year is from the trust fund  
 17.29 to the Board of Regents of the University of  
 17.30 Minnesota to conduct lab- and field-scale tests  
 17.31 of a novel bioreactor technology for removing  
 17.32 nutrients from agricultural drainage and  
 17.33 disseminate results to farmers and the public.

17.34 **(p) Citizen Scientists Capture Microplastic**  
 17.35 **Pollution Around State**

18.1 \$419,000 the first year is from the trust fund  
18.2 to the Board of Regents of the University of  
18.3 Minnesota to develop adaptable microplastic  
18.4 sampling and detection methods, develop a  
18.5 public-access database, and leverage citizen  
18.6 scientists to survey microplastic pollution  
18.7 throughout the state to allow for data-driven  
18.8 risk management decisions and solutions.

18.9 **(q) Healthy Native Prairie Microbiomes for**  
18.10 **Cleaner Water**

18.11 \$468,000 the first year is from the trust fund  
18.12 to the Board of Regents of the University of  
18.13 Minnesota to identify and characterize prairie  
18.14 plant microbiomes and study the potential of  
18.15 native prairie microbes to provide nitrogen for  
18.16 agricultural crops and reduce industrial  
18.17 fertilizer use and nitrate contamination of  
18.18 water.

18.19 **(r) Wastewater Chloride Reduction through**  
18.20 **Industrial Source Reduction Assistance**

18.21 \$247,000 the first year is from the trust fund  
18.22 to the Board of Regents of the University of  
18.23 Minnesota for the Minnesota Technical  
18.24 Assistance Program to provide technical  
18.25 assistance to businesses to cost-effectively  
18.26 reduce industrial and commercial chloride use  
18.27 in communities with high chloride effluent  
18.28 concentrations.

18.29 **(s) Pilot Water Budget Framework for**  
18.30 **Managing Water Withdrawals**

18.31 \$198,000 the first year is from the trust fund  
18.32 to the Board of Regents of the University of  
18.33 Minnesota to develop a pilot water budget  
18.34 framework to identify sensitive areas in  
18.35 Minnesota where net water withdrawals have

19.1 a significant impact on surface water and  
 19.2 groundwater.

19.3 **(t) Biofilm Mediated Destruction of PFAS in**  
 19.4 **Groundwater**

19.5 \$1,336,000 the first year is from the trust fund  
 19.6 to the commissioner of natural resources for  
 19.7 an agreement with Bay West, LLC to develop  
 19.8 biofilm treatment technology and demonstrate  
 19.9 field-scale removal of per- and polyfluoroalkyl  
 19.10 substances (PFAS) from contaminated  
 19.11 groundwater. A fiscal management plan must  
 19.12 be approved in the work plan before any trust  
 19.13 fund money is spent.

19.14 **(u) Impact of Microplastics on Wastewater**  
 19.15 **Treatment in Minnesota**

19.16 \$506,000 the first year is from the trust fund  
 19.17 to the Board of Regents of the University of  
 19.18 Minnesota to quantify the abundance of  
 19.19 microplastics in wastewater treatment plants  
 19.20 in Minnesota, determine how microplastics  
 19.21 affect wastewater treatment plant performance,  
 19.22 and evaluate how different wastewater  
 19.23 treatment processes alter microplastics.

19.24 **(v) Portable Arsenic and Nitrate Detector for**  
 19.25 **Well Water**

19.26 \$358,000 the first year is from the trust fund  
 19.27 to the Board of Regents of the University of  
 19.28 Minnesota to develop a small, cheap, and  
 19.29 easy-to-use system to detect arsenic and nitrate  
 19.30 in well water and determine whether well  
 19.31 water is safe to drink.

19.32 **(w) Recovering Salts from Highly Saline**  
 19.33 **Wastewater**

19.34 \$272,000 the first year is from the trust fund  
 19.35 to the Board of Regents of the University of

- 20.1 Minnesota to develop a method to recover  
 20.2 useful salts from concentrated saline  
 20.3 wastewater to increase the economic  
 20.4 sustainability of high water-recovery  
 20.5 softening, sulfate removal, and industrial  
 20.6 wastewater treatment.
- 20.7 **Subd. 5. Environmental Education** 11,965,000 -0-
- 20.8 **(a) Eagle's Nest: Where the World Becomes**  
 20.9 **Your Classroom**
- 20.10 \$130,000 the first year is from the trust fund  
 20.11 to the commissioner of natural resources for  
 20.12 an agreement with Glacial Hills Elementary  
 20.13 School to create interactive natural playground  
 20.14 and landscaping features for children and  
 20.15 provide environmental education programming  
 20.16 outside of regular school hours.
- 20.17 **(b) Advancing Equity in Environmental**  
 20.18 **Education**
- 20.19 \$700,000 the first year is from the trust fund  
 20.20 to the commissioner of natural resources for  
 20.21 an agreement with Camp Fire Minnesota to  
 20.22 provide needs-based scholarships for  
 20.23 Minnesota youth to attend  
 20.24 state-standards-aligned environmental and  
 20.25 outdoor education programs.
- 20.26 **(c) Teacher Field School - Phase 2: Increasing**  
 20.27 **Impact**
- 20.28 \$712,000 the first year is from the trust fund  
 20.29 to the commissioner of natural resources for  
 20.30 an agreement with Hamline University to  
 20.31 continue the teacher field school program that  
 20.32 trains teachers how to connect academic  
 20.33 content with environmental stewardship,  
 20.34 natural resource conservation, and outdoor  
 20.35 recreation. This appropriation is also to pilot

21.1 a train-the-trainer model for nature-based  
 21.2 education practices.

21.3 **(d) Creating Future Leaders in Outdoor and**  
 21.4 **Environmental Leadership**

21.5 \$330,000 the first year is from the trust fund  
 21.6 to the Board of Trustees of the Minnesota  
 21.7 State Colleges and Universities for North  
 21.8 Hennepin Community College to collaborate  
 21.9 with K-12 education, higher education, and  
 21.10 outdoor organizations to increase  
 21.11 environmental education, leadership,  
 21.12 internship, and career opportunities for  
 21.13 underrepresented college and high school  
 21.14 students.

21.15 **(e) Engaging our Diverse Public in**  
 21.16 **Environmental Stewardship - Phase 2**

21.17 \$249,000 the first year is from the trust fund  
 21.18 to the commissioner of natural resources for  
 21.19 an agreement with Great River Greening to  
 21.20 increase participation in natural resources  
 21.21 conservation and restoration efforts and  
 21.22 careers through volunteer, internship, and  
 21.23 youth engagement activities, with a focus on  
 21.24 diverse audiences that more accurately reflect  
 21.25 local demographic and socioeconomic  
 21.26 conditions in Minnesota.

21.27 **(f) Outdoor School for Minnesota K-12 Students**

21.28 \$3,992,000 the first year is from the trust fund  
 21.29 to the commissioner of natural resources for  
 21.30 an agreement with Osprey Wilds  
 21.31 Environmental Learning Center to partner with  
 21.32 four other accredited residential environmental  
 21.33 learning centers in Minnesota to provide  
 21.34 needs-based scholarships to K-12 students

22.1 statewide for immersive multiday  
 22.2 environmental learning experiences.

22.3 **(g) Statewide Environmental Education via PBS**  
 22.4 **Outdoor Series**

22.5 \$415,000 the first year is from the trust fund  
 22.6 to the commissioner of natural resources for  
 22.7 an agreement with Pioneer Public  
 22.8 Broadcasting Service to produce, distribute,  
 22.9 and promote new episodes of a statewide  
 22.10 public television series that inspires  
 22.11 Minnesotans to connect with the outdoors and  
 22.12 to restore and protect the state's natural  
 22.13 resources.

22.14 **(h) Maajii-akii-gikenjigewin Conservation Crew**  
 22.15 **Program**

22.16 \$678,000 the first year is from the trust fund  
 22.17 to the commissioner of natural resources for  
 22.18 an agreement with Conservation Corps  
 22.19 Minnesota & Iowa to expand a conservation  
 22.20 corps program developed to provide natural  
 22.21 resources career development opportunities  
 22.22 for indigenous young adults and cultivate an  
 22.23 enduring action-based conservation ethic  
 22.24 through the integration of traditional  
 22.25 knowledge, nature immersion, and the  
 22.26 implementation of conservation and  
 22.27 restoration practices in the field.

22.28 **(i) Reuse for the Future: Youth Education and**  
 22.29 **Engagement**

22.30 \$225,000 the first year is from the trust fund  
 22.31 to the commissioner of natural resources for  
 22.32 an agreement with Reuse Minnesota to provide  
 22.33 curriculum-based opportunities for students  
 22.34 to learn about the reuse economy, reuse skills,  
 22.35 and other opportunities to reduce waste. This

23.1 appropriation may also be used to align  
 23.2 materials to state standards and translate  
 23.3 materials to additional languages.

23.4 **(j) River Bend Nature Center Outdoor Diversity**  
 23.5 **Initiative**

23.6 \$247,000 the first year is from the trust fund  
 23.7 to the commissioner of natural resources for  
 23.8 an agreement with River Bend Nature Center  
 23.9 to lead a coalition of educational partners and  
 23.10 culturally specific organizations to expand  
 23.11 recognized environmental education  
 23.12 curriculum and provide conservation-based  
 23.13 career exploration and job placement  
 23.14 opportunities for diverse communities in  
 23.15 southern Minnesota.

23.16 **(k) Camp Parsons Mississippi Summer**

23.17 \$225,000 the first year is from the trust fund  
 23.18 to the commissioner of natural resources for  
 23.19 an agreement with the Phyllis Wheatley  
 23.20 Community Center to provide environmental  
 23.21 education to Minneapolis urban youth through  
 23.22 the Camp Parsons Mississippi Summer  
 23.23 program that fosters connections to nature and  
 23.24 encourages responsible stewardship of our  
 23.25 natural resources.

23.26 **(l) Adult Outdoor Education for Minnesota's**  
 23.27 **Underrepresented Communities**

23.28 \$247,000 the first year is from the trust fund  
 23.29 to the commissioner of natural resources for  
 23.30 an agreement with Baztec Fishing & Outdoors  
 23.31 to create fishing and hunting education,  
 23.32 training, and opportunities for underserved  
 23.33 and underrepresented communities in  
 23.34 Minnesota. All fishing tackle purchased with  
 23.35 this appropriation must be lead-free. A fiscal

24.1 management plan must be approved in the  
24.2 work plan before any trust fund money is  
24.3 spent.

24.4 **(m) Minnesota's Road Map for Sustainability**  
24.5 **and Climate Education**

24.6 \$491,000 the first year is from the trust fund  
24.7 to the commissioner of natural resources for  
24.8 an agreement with Climate Generation to  
24.9 convene community gatherings and partner  
24.10 with institutions and organizations across the  
24.11 education sector to develop a road map on  
24.12 how to build capacity for equitable and  
24.13 accessible sustainability and climate education  
24.14 programs that align with the Minnesota  
24.15 Climate Action Framework.

24.16 **(n) ESTEP 2.0: Earth Science Teacher**  
24.17 **Education Project**

24.18 \$643,000 the first year is from the trust fund  
24.19 to the commissioner of natural resources for  
24.20 an agreement with Minnesota Science  
24.21 Teachers Association to provide professional  
24.22 development for Minnesota science teachers  
24.23 statewide in environmental and earth science  
24.24 content to strengthen environmental education  
24.25 in schools.

24.26 **(o) Engaging Latine Communities in**  
24.27 **Conservation and Preservation**

24.28 \$400,000 the first year is from the trust fund  
24.29 to the commissioner of natural resources for  
24.30 an agreement with Comunidades Organizando  
24.31 el Poder y la Accion Latina to use  
24.32 community-based partnerships and  
24.33 communications platforms to host outdoor  
24.34 events and conduct educational outreach  
24.35 focused on Latine and BIPOC communities



25.1 about the need to protect Minnesota's  
 25.2 environment and natural resources.

25.3 **(p) Inclusive Wildlife Engagement in Classrooms**  
 25.4 **and Communities**

25.5 \$712,000 the first year is from the trust fund  
 25.6 to the commissioner of natural resources for  
 25.7 the nongame wildlife program to provide three  
 25.8 wildlife conservation, action-based outdoor  
 25.9 educational opportunities to engage  
 25.10 needs-based schools, young adults, and  
 25.11 communities underrepresented in natural  
 25.12 resources through the Bird by Bird,  
 25.13 Empowering Pathways into Conservation, and  
 25.14 Community Science programs.

25.15 **(q) Activating Youth and Family Environmental**  
 25.16 **Stewardship through Raptors**

25.17 \$228,000 the first year is from the trust fund  
 25.18 to the Board of Regents of the University of  
 25.19 Minnesota for the Raptor Center to deliver  
 25.20 standards-based environmental education  
 25.21 featuring live raptors through school programs  
 25.22 and community events across Minnesota.

25.23 **(r) Moving Minnesota toward a Lead-Free**  
 25.24 **Sporting Future**

25.25 \$250,000 the first year is from the trust fund  
 25.26 to the Board of Trustees of the Minnesota  
 25.27 State Colleges and Universities for Bemidji  
 25.28 State University to conduct educational  
 25.29 outreach directed at hunters and anglers to  
 25.30 increase awareness of lead-free options for  
 25.31 big-game hunting, small-game hunting, and  
 25.32 fishing as a means of reducing wildlife  
 25.33 exposure to lead.

25.34 **(s) Science Centers Supporting Northern Boys**  
 25.35 **and Girls Clubs**

26.1 \$1,091,000 the first year is from the trust fund  
 26.2 to the commissioner of natural resources for  
 26.3 an agreement with the Headwaters Science  
 26.4 Center to expand access to environmental  
 26.5 science education in northern Minnesota and  
 26.6 leverage partnerships between rural and urban  
 26.7 organizations to deliver culturally relevant,  
 26.8 hands-on learning experiences to underserved  
 26.9 students.

26.10 **Subd. 6. Aquatic and Terrestrial Invasive**  
 26.11 **Species**

6,713,000

-0-

26.12 **(a) Aquatic Invasive Species: From Problems to**  
 26.13 **Real-World Solutions**

26.14 \$5,771,000 the first year is from the trust fund  
 26.15 to the Board of Regents of the University of  
 26.16 Minnesota for the Minnesota Aquatic Invasive  
 26.17 Species Research Center to conduct  
 26.18 high-priority projects aimed at solving  
 26.19 Minnesota's aquatic invasive species problems  
 26.20 using rigorous science and a collaborative  
 26.21 process. This appropriation may also be used  
 26.22 to deliver research findings to end users  
 26.23 through strategic communication and outreach.  
 26.24 This appropriation is available until June 30,  
 26.25 2029, by which time the project must be  
 26.26 completed and final products delivered.

26.27 **(b) Optimizing Nonnative Cattail Treatment**  
 26.28 **Effectiveness in Prairie Wetlands**

26.29 \$942,000 the first year is from the trust fund  
 26.30 to the commissioner of natural resources to  
 26.31 compare the effectiveness of invasive cattail  
 26.32 treatment methods and provide  
 26.33 recommendations for managers to maximize  
 26.34 benefits of conservation money for native  
 26.35 wetland plants and wildlife. This appropriation  
 26.36 is available until June 30, 2031, by which time

27.1 the project must be completed and final  
27.2 products delivered.

27.3 **Subd. 7. Air Quality, Climate Change, and**  
27.4 **Renewable Energy**

11,744,000

-0-

27.5 **(a) Protecting Coldwater Fish Habitat in**  
27.6 **Minnesota Lakes**

27.7 \$561,000 the first year is from the trust fund  
27.8 to the Board of Regents of the University of  
27.9 Minnesota to identify lake-specific watershed  
27.10 protection targets and management practices  
27.11 needed to maintain coldwater fish habitat  
27.12 threatened by warming temperatures and  
27.13 increasing extreme rain events and to integrate  
27.14 this information into conservation planning  
27.15 tools.

27.16 **(b) Agrivoltaics 2.0 Building a Resilient E-Farm**

27.17 \$535,000 the first year is from the trust fund  
27.18 to the Board of Regents of the University of  
27.19 Minnesota for the West Central Research and  
27.20 Outreach Center at Morris to evaluate  
27.21 emerging solar system designs and solar  
27.22 technology integration with vegetable and  
27.23 livestock production systems to maximize  
27.24 energy production and benefits to farmers.

27.25 **(c) Pine Needles Reveal Past and Present**  
27.26 **Airborne PFAS**

27.27 \$550,000 the first year is from the trust fund  
27.28 to the commissioner of the Pollution Control  
27.29 Agency to use current and historic pine  
27.30 needles as a low-cost method to assess  
27.31 statewide per- and polyfluoroalkyl substances  
27.32 (PFAS) levels in ambient air.

27.33 **(d) Facilitated Transport Hybrid Membranes**  
27.34 **for CO<sub>2</sub> Separation**

28.1 \$1,050,000 the first year is from the trust fund  
28.2 to the Board of Regents of the University of  
28.3 Minnesota to develop and test advanced  
28.4 polymeric membranes for capture and reuse  
28.5 of carbon dioxide at industrial sources.

28.6 **(e) Renewable Energy Conversion for Farm**  
28.7 **Diesel and Ammonia**

28.8 \$726,000 the first year is from the trust fund  
28.9 to the Board of Regents of the University of  
28.10 Minnesota to develop a novel charge-swing  
28.11 catalytic condenser that will enable the  
28.12 low-cost production of hydrogen from water  
28.13 using rural electricity for on-the-farm energy  
28.14 storage or renewable diesel and ammonia  
28.15 fertilizer.

28.16 **(f) Innovative Solution to Renewable Energy**  
28.17 **from Food Waste**

28.18 \$5,167,000 the first year is from the trust fund  
28.19 to the commissioner of natural resources for  
28.20 an agreement with the Ramsey/Washington  
28.21 Recycling and Energy Board to provide  
28.22 reimbursements to offset the processing fees  
28.23 for the public to divert organic materials from  
28.24 landfills and produce renewable natural gas  
28.25 through anaerobic digestion and sequestration  
28.26 of carbon into biochar. Net income generated  
28.27 as part of this appropriation may be reinvested  
28.28 in the project if a plan for reinvestment is  
28.29 approved in the work plan as provided under  
28.30 Minnesota Statutes, section 116P.10. This  
28.31 appropriation is available until June 30, 2029,  
28.32 by which time the project must be completed  
28.33 and final products delivered.

28.34 **(g) Fueling the Future: Decarbonizing Regional**  
28.35 **Transportation Project**

29.1 \$3,155,000 the first year is from the trust fund  
 29.2 to the commissioner of natural resources for  
 29.3 an agreement with the city of St. Cloud to  
 29.4 install a green hydrogen production, storage,  
 29.5 and fueling station that provides a renewable,  
 29.6 carbon-free, alternate fuel source to  
 29.7 decarbonize community transportation and  
 29.8 manufacturing sectors. This appropriation may  
 29.9 also be used to convert city fleet and public  
 29.10 transit vehicles to hydrogen fuel. Net income  
 29.11 generated as part of this appropriation may be  
 29.12 reinvested in the project if a plan for  
 29.13 reinvestment is approved in the work plan as  
 29.14 provided under Minnesota Statutes, section  
 29.15 116P.10. This appropriation is available until  
 29.16 June 30, 2029, by which time the project must  
 29.17 be completed and final products delivered.

29.18 **Subd. 8. Methods to Protect or Restore Land,**  
 29.19 **Water, and Habitat**

12,188,000

-0-

29.20 **(a) Minnesota PlantWatch: Community**  
 29.21 **Scientists Conserving Rare Plants**

29.22 \$1,086,000 the first year is from the trust fund.  
 29.23 Of this amount, \$518,000 is to the Board of  
 29.24 Regents of the University of Minnesota for  
 29.25 the Minnesota Landscape Arboretum and  
 29.26 \$568,000 is to the commissioner of natural  
 29.27 resources to enhance the Minnesota  
 29.28 PlantWatch program to improve the  
 29.29 conservation of Minnesota's natural resources  
 29.30 and support community scientist-driven rare  
 29.31 plant surveys and seed banking and  
 29.32 preservation.

29.33 **(b) Grassland Restoration for Pollinator**  
 29.34 **Conservation and Demonstration**

29.35 \$250,000 the first year is from the trust fund  
 29.36 to the Board of Regents of the University of

30.1 Minnesota for the Minnesota Landscape  
 30.2 Arboretum to restore a degraded pasture to  
 30.3 grassland as a model for climate-resilient  
 30.4 pollinator habitat; provide interpretive signage,  
 30.5 education, and community engagement; and  
 30.6 conduct species monitoring. This appropriation  
 30.7 is available until June 30, 2031, by which time  
 30.8 the project must be completed and final  
 30.9 products delivered.

30.10 **(c) Planning for Long-Term Natural Resources**  
 30.11 **Protection in Hennepin County**

30.12 \$250,000 the first year is from the trust fund  
 30.13 to the commissioner of natural resources for  
 30.14 an agreement with Hennepin County to  
 30.15 develop a publicly available interactive map  
 30.16 of natural systems, create a centralized  
 30.17 clearinghouse of data and best practices  
 30.18 toolkit, and provide ongoing technical  
 30.19 assistance for local communities with limited  
 30.20 resources to manage complex natural resources  
 30.21 challenges. Net income generated as part of  
 30.22 this appropriation may be reinvested in the  
 30.23 project if a plan for reinvestment is approved  
 30.24 in the work plan as provided under Minnesota  
 30.25 Statutes, section 116P.10.

30.26 **(d) Native Forages: Growing Drought and**  
 30.27 **Climate Resiliency**

30.28 \$2,254,000 the first year is from the trust fund  
 30.29 to the commissioner of natural resources for  
 30.30 an agreement with Ducks Unlimited to  
 30.31 collaborate with livestock farmers to establish  
 30.32 native grassland wildlife habitat and enhance  
 30.33 native forages on working lands to improve  
 30.34 ecological, economic, and climate resiliency.  
 30.35 Notwithstanding subdivision 13, paragraph  
 30.36 (e), restoration efforts may be undertaken on

31.1 private lands but must occur on properties  
 31.2 enrolled in long-term agreements to protect  
 31.3 and maintain the restored areas in  
 31.4 conformance with approved restoration and  
 31.5 grazing plans as approved in the work plan.

31.6 This appropriation is available until June 30,  
 31.7 2031, by which time the project must be  
 31.8 completed and final products delivered.

31.9 **(e) Accelerated Genetic Migration of Bur Oak**  
 31.10 **- Ten-Year Data**

31.11 \$223,000 the first year is from the trust fund  
 31.12 to the commissioner of natural resources for  
 31.13 an agreement with Great River Greening to  
 31.14 assess the growth and survival of previously  
 31.15 restored bur oak ecotypes to inform techniques  
 31.16 for improved climate resiliency. This  
 31.17 appropriation may also be used to enhance the  
 31.18 previous plantings and disseminate results of  
 31.19 the study to practitioners, students,  
 31.20 landowners, and others. This appropriation is  
 31.21 available until June 30, 2029, by which time  
 31.22 the project must be completed and final  
 31.23 products delivered.

31.24 **(f) Superior Hiking Trail Bridge, Boardwalk,**  
 31.25 **and Trailhead Renewal**

31.26 \$532,000 the first year is from the trust fund  
 31.27 to the commissioner of natural resources for  
 31.28 an agreement with the Superior Hiking Trail  
 31.29 Association to renew Superior Hiking Trail  
 31.30 bridges, boardwalks, and trailheads to increase  
 31.31 user safety, improve the user experience, and  
 31.32 protect adjacent land and water.

31.33 **(g) Mississippi Gateway Shoreline Stabilization**  
 31.34 **and Fishing Improvements**

32.1 \$735,000 the first year is from the trust fund  
 32.2 to the commissioner of natural resources for  
 32.3 an agreement with Three Rivers Park District  
 32.4 to improve water quality and shoreline fishing  
 32.5 access through shoreline stabilization and  
 32.6 construction of accessible trails and fishing  
 32.7 platforms within Mississippi Gateway  
 32.8 Regional Park.

32.9 **(h) Phytoremediation of PFAS from Soil**

32.10 \$1,066,000 the first year is from the trust fund  
 32.11 to the Board of Regents of the University of  
 32.12 Minnesota to use interdisciplinary research in  
 32.13 biology, nanotechnology, chemistry, and  
 32.14 genetic engineering to develop technology to  
 32.15 remediate soils contaminated with per- and  
 32.16 polyfluoroalkyl substances (PFAS). This  
 32.17 appropriation may also be used to convene  
 32.18 stakeholders to coordinate and advance PFAS  
 32.19 remediation research in Minnesota. This  
 32.20 appropriation is subject to Minnesota Statutes,  
 32.21 section 116P.10.

32.22 **(i) Removing Mercury from Minnesota Waters**

32.23 \$247,000 the first year is from the trust fund  
 32.24 to the Board of Regents of the University of  
 32.25 Minnesota to test and refine a biotechnology  
 32.26 approach to remove mercury from the food  
 32.27 chain in Minnesota's lakes and rivers and  
 32.28 potentially make fish consumption in  
 32.29 Minnesota safer. This appropriation is subject  
 32.30 to Minnesota Statutes, section 116P.10.

32.31 **(j) Evaluating Native Seed Mixes for Grazing**

32.32 \$208,000 the first year is from the trust fund  
 32.33 to the commissioner of natural resources for  
 32.34 an agreement with Restoravore to assess the



33.1 use of native hay and pasture mixes to benefit  
 33.2 biodiversity, soil health, and Minnesota  
 33.3 farmers. A fiscal management plan must be  
 33.4 approved in the work plan before any trust  
 33.5 fund money is spent.

33.6 **(k) Improving Minnesota Forest Health via**  
 33.7 **Post-Duff-Burning Soil Analysis**

33.8 \$646,000 the first year is from the trust fund  
 33.9 to the Board of Regents of the University of  
 33.10 Minnesota to thoroughly investigate the impact  
 33.11 of forest floor duff fires on soil dynamics,  
 33.12 nutrient cycles, invasive shrubs, earthworms,  
 33.13 and root systems to improve fire management  
 33.14 for Minnesota's forest preservation. This  
 33.15 appropriation may also be used to develop an  
 33.16 outdoor lab-scale duff-burning device.

33.17 **(l) Minnesota Riverbank Protection and Parks**  
 33.18 **Improvements**

33.19 \$1,400,000 the first year is from the trust fund  
 33.20 to the commissioner of natural resources for  
 33.21 an agreement with the city of Shakopee to  
 33.22 restore Minnesota River shoreline at Huber  
 33.23 Park by regrading and establishing native  
 33.24 vegetation to protect fish and wildlife habitat,  
 33.25 reduce erosion, and provide public access to  
 33.26 the river. This appropriation is available until  
 33.27 June 30, 2029, by which time the project must  
 33.28 be completed and final products delivered.

33.29 **(m) Restoration at Wakan Tipi and Bruce Vento**  
 33.30 **Nature Sanctuary**

33.31 \$669,000 the first year is from the trust fund  
 33.32 to the commissioner of natural resources for  
 33.33 an agreement with the Lower Phalen Creek  
 33.34 Project to conduct citizen-science natural  
 33.35 resource data collection events, recruit and

34.1 train volunteer site stewards, and enhance  
 34.2 habitat at Wakan Tipi and the Bruce Vento  
 34.3 Nature Sanctuary.

34.4 **(n) Promoting Pollinators on Corporate**  
 34.5 **Campuses**

34.6 \$547,000 the first year is from the trust fund  
 34.7 to the commissioner of natural resources for  
 34.8 an agreement with the University of St.  
 34.9 Thomas to use experimental bee lawn  
 34.10 installations on corporate campuses, combined  
 34.11 with landscape modeling and employee  
 34.12 surveys, to determine potential ecological,  
 34.13 economic, and societal benefits of widespread  
 34.14 commercial lawn habitat transformation. This  
 34.15 appropriation is available until June 30, 2029,  
 34.16 by which time the project must be completed  
 34.17 and final products delivered.

34.18 **(o) Riparian Area Adaptation Strategy for**  
 34.19 **Southeast Minnesota**

34.20 \$243,000 the first year is from the trust fund  
 34.21 to the commissioner of natural resources for  
 34.22 an agreement with The Nature Conservancy,  
 34.23 in partnership with the University of  
 34.24 Minnesota, to assess an alternative adaptation  
 34.25 strategy to restore riparian areas by excavating  
 34.26 and planting riparian shrubs to reconnect the  
 34.27 floodplains. This appropriation may also be  
 34.28 used for outreach materials and educational  
 34.29 activities.

34.30 **(p) Minnehaha Park South Plateau Oak Savanna**  
 34.31 **Restoration**

34.32 \$242,000 the first year is from the trust fund  
 34.33 to the commissioner of natural resources for  
 34.34 an agreement with the Minneapolis Park and  
 34.35 Recreation Board to improve wildlife habitat,

35.1 enhance recreational experiences, and restore  
 35.2 an area of urban parkland in Minnehaha Park  
 35.3 to an oak savanna ecosystem. This  
 35.4 appropriation is available until June 30, 2029,  
 35.5 by which time the project must be completed  
 35.6 and final products delivered.

35.7 **(q) Tree Protection for Minnesota's Tamarack**  
 35.8 **Against Larch Beetle**

35.9 \$321,000 the first year is from the trust fund  
 35.10 to the Board of Regents of the University of  
 35.11 Minnesota to evaluate new insect management  
 35.12 techniques and key factors for predicting  
 35.13 future infestations to protect and preserve trees  
 35.14 from native eastern larch beetle infestations.

35.15 **(r) Shoreline Restoration and Enhancement at**  
 35.16 **Minneapolis Lakes**

35.17 \$819,000 the first year is from the trust fund  
 35.18 to the commissioner of natural resources for  
 35.19 an agreement with the Minneapolis Park and  
 35.20 Recreation Board to restore and enhance areas  
 35.21 of turf-dominated, eroding, and low habitat  
 35.22 value lakeshore that impacts the water quality  
 35.23 of the Minneapolis Chain of Lakes.

35.24 **(s) Developing Markets for CLC Crops**

35.25 \$450,000 the first year is from the trust fund  
 35.26 to the commissioner of agriculture to provide  
 35.27 grants to organizations in Minnesota to  
 35.28 develop enterprises, supply chains, and  
 35.29 markets for continuous living cover crops and  
 35.30 cropping systems in the early stage of  
 35.31 commercial development. This appropriation  
 35.32 is exempt from the income repayment  
 35.33 requirements in Minnesota Statutes,  
 35.34 section 116P.10, paragraph (c).

36.1	<b><u>Subd. 9. Land Acquisition, Habitat, and</u></b>		
36.2	<b><u>Recreation</u></b>	<u>19,553,000</u>	<u>-0-</u>

36.3 **(a) Cannon River Preservation and Access**

36.4 \$2,717,000 the first year is from the trust fund  
 36.5 to the commissioner of natural resources for  
 36.6 an agreement with Dakota County to  
 36.7 rehabilitate the historic Waterford Bridge for  
 36.8 the Mill Towns State Trail; restore and  
 36.9 enhance upland shoreline, forest, and prairie  
 36.10 habitats; and develop a trailhead and  
 36.11 recreational access to the Cannon River.

36.12 **(b) Mesabi Trail: Aurora to Hoyt Lakes**

36.13 \$1,325,000 the first year is from the trust fund  
 36.14 to the commissioner of natural resources for  
 36.15 an agreement with St. Louis and Lake  
 36.16 Counties Regional Railroad Authority for  
 36.17 environmental review and permitting and to  
 36.18 engineer, design, and construct a segment of  
 36.19 the Mesabi Trail beginning at the intersection  
 36.20 of Main Street and Forestry Road in Aurora  
 36.21 toward Hoyt Lakes.

36.22 **(c) RTA Maintenance Trail Stabilization Project**

36.23 \$500,000 the first year is from the trust fund  
 36.24 to the commissioner of natural resources for  
 36.25 an agreement with the city of Eden Prairie to  
 36.26 construct a retaining wall and restore adjacent  
 36.27 remnant prairie along the maintenance trail at  
 36.28 Richard T. Anderson (RTA) Conservation  
 36.29 Area to mitigate ongoing erosion and protect  
 36.30 native habitat and plant communities.

36.31 **(d) Local Parks, Trails, and Natural Areas Grant**  
 36.32 **Programs**

36.33 \$4,769,000 the first year is from the trust fund  
 36.34 to the commissioner of natural resources to

37.1 solicit, rank, and fund competitive matching  
 37.2 grants for local parks, trail connections, and  
 37.3 natural and scenic areas under Minnesota  
 37.4 Statutes, section 85.019. This appropriation is  
 37.5 for local nature-based recreation, connections  
 37.6 to regional and state natural areas, and  
 37.7 recreation facilities and may not be used for  
 37.8 athletic facilities such as sport fields, courts,  
 37.9 and playgrounds. This appropriation is exempt  
 37.10 from subdivision 13, paragraph (k).

37.11 **(e) Boardwalk Over Boggy Land for**  
 37.12 **Recreational Purposes**

37.13 \$148,000 the first year is from the trust fund  
 37.14 to the commissioner of natural resources for  
 37.15 an agreement with the city of Battle Lake to  
 37.16 design and construct a boardwalk over city  
 37.17 land to protect wetlands and to increase  
 37.18 community access to natural areas and wildlife  
 37.19 habitat.

37.20 **(f) Lake Zumbro Park Water Access and Site**  
 37.21 **Improvements**

37.22 \$1,978,000 the first year is from the trust fund  
 37.23 to the commissioner of natural resources for  
 37.24 an agreement with Olmsted County to enhance  
 37.25 the Lake Zumbro Park water access and the  
 37.26 federal Americans with Disabilities Act  
 37.27 (ADA) accessibility for boating, fishing, and  
 37.28 viewing, while creating new user-friendly and  
 37.29 accessible amenities for individuals and  
 37.30 families. This may include new fishing docks  
 37.31 or piers, restored shoreline, improved parking,  
 37.32 and ADA accessible access to an existing  
 37.33 kayak and canoe launch.

37.34 **(g) Scientific and Natural Area (SNA)**  
 37.35 **Biodiversity Protection**

38.1 \$1,104,000 the first year is from the trust fund  
38.2 to the commissioner of natural resources for  
38.3 the scientific and natural area program to  
38.4 conserve Minnesota's most unique places and  
38.5 rare species and strategically acquire lands  
38.6 that meet criteria for SNAs under Minnesota  
38.7 Statutes, section 86A.05. This appropriation  
38.8 is available until June 30, 2029, by which time  
38.9 the project must be completed and final  
38.10 products delivered.

38.11 **(h) Scandia Gateway Trail Connection:**  
38.12 **Recreation, Wetlands, and Environmental**  
38.13 **Education**

38.14 \$907,000 the first year is from the trust fund  
38.15 to the commissioner of natural resources for  
38.16 an agreement with the city of Scandia to  
38.17 engineer, design, and construct a bike and  
38.18 pedestrian trail to connect recreational,  
38.19 cultural, and environmental resources in  
38.20 Scandia to the state Gateway Trail. This  
38.21 appropriation is also to create and install  
38.22 educational interpretive signage about  
38.23 wetlands and rain gardens near the trail.

38.24 **(i) Lake Byllesby Regional Park Restoration and**  
38.25 **Recreation**

38.26 \$1,120,000 the first year is from the trust fund  
38.27 to the commissioner of natural resources for  
38.28 an agreement with Dakota County to restore  
38.29 prairie, woodland, and shoreline habitat and  
38.30 design and install trails, birding and picnic  
38.31 areas, and other recreational amenities to  
38.32 enhance the visitor experience and stewardship  
38.33 at Lake Byllesby Regional Park. This  
38.34 appropriation is available until June 30, 2029,  
38.35 by which time the project must be completed  
38.36 and final products delivered.

39.1 **(j) Thompson County Park Restoration and**  
 39.2 **Accessibility Improvements**

39.3 \$867,000 the first year is from the trust fund  
 39.4 to the commissioner of natural resources for  
 39.5 an agreement with Dakota County to develop  
 39.6 a pollinator promenade with accessible natural  
 39.7 surface paths, native plantings, and interpretive  
 39.8 signage at Thompson County Park. This  
 39.9 appropriation may also be used to conduct  
 39.10 stream restoration to enhance visitor  
 39.11 experience and provide stormwater storage,  
 39.12 sediment and nutrient reduction, and increased  
 39.13 habitat and species diversity within the park.  
 39.14 This appropriation is available until June 30,  
 39.15 2029, by which time the project must be  
 39.16 completed and final products delivered.

39.17 **(k) Thom Storm Chalet and Outdoor Recreation**  
 39.18 **Center**

39.19 \$2,312,000 the first year is from the trust fund  
 39.20 to the commissioner of natural resources for  
 39.21 an agreement with the city of Duluth to  
 39.22 construct a new building and accessible  
 39.23 parking for the Thom Storm Chalet and  
 39.24 Outdoor Recreation Center at Chester Park to  
 39.25 expand high-quality outdoor recreation and  
 39.26 environmental education opportunities that  
 39.27 enhance youth and family understanding of  
 39.28 the importance of natural resource protection,  
 39.29 conservation, and preservation. Net income  
 39.30 generated as part of this appropriation may be  
 39.31 reinvested in the project if a plan for  
 39.32 reinvestment is approved in the work plan as  
 39.33 provided under Minnesota Statutes, section  
 39.34 116P.10.

39.35 **(l) Enhancing Preservation and Accessibility at**  
 39.36 **Hawk Ridge Nature Reserve**

40.1 \$155,000 the first year is from the trust fund  
 40.2 to the commissioner of natural resources for  
 40.3 an agreement with the city of Duluth to  
 40.4 develop accessible trails and remove invasive  
 40.5 species to enhance outdoor recreation and  
 40.6 education opportunities that promote  
 40.7 conservation of raptors and preservation of  
 40.8 natural resources at Hawk Ridge Nature  
 40.9 Reserve.

40.10 **(m) Echo Bay County Park - Phase 1**  
 40.11 **Construction**

40.12 \$1,122,000 the first year is from the trust fund  
 40.13 to the commissioner of natural resources for  
 40.14 an agreement with Otter Tail County to  
 40.15 construct, in accordance with the Echo Bay  
 40.16 County Park Master Plan, access roads, trails,  
 40.17 parking, and bathroom facilities that create  
 40.18 designated public access and use corridors for  
 40.19 outdoor recreation and limit natural resource  
 40.20 impacts in Echo Bay County Park.

40.21 **(n) Chaska Big Woods Property Acquisition**

40.22 \$529,000 the first year is from the trust fund  
 40.23 to the commissioner of natural resources for  
 40.24 an agreement with the city of Chaska to  
 40.25 acquire property that contains remnant Big  
 40.26 Woods to protect Minnesota forests and  
 40.27 wetlands and to increase community access  
 40.28 to natural areas.

40.29 **Subd. 10. Administration, Emerging Issues, and**  
 40.30 **Contract Agreement Reimbursement**

7,267,000

-0-

40.31 **(a) Emerging Issues Account**

40.32 \$2,984,000 the first year is from the trust fund  
 40.33 to the Legislative-Citizen Commission on  
 40.34 Minnesota Resources to an emerging issues



41.1 account authorized in Minnesota Statutes,  
 41.2 section 116P.08, subdivision 4, paragraph (d).

41.3 **(b) 2025 Contract Agreement Reimbursement**

41.4 \$280,000 the first year is from the trust fund  
 41.5 to the commissioner of natural resources, at  
 41.6 the direction of the Legislative-Citizen  
 41.7 Commission on Minnesota Resources, for  
 41.8 expenses incurred in preparing and  
 41.9 administering contracts, including for the  
 41.10 agreements specified in this section.

41.11 **(c) LCCMR Administrative Budget**

41.12 \$4,000,000 the first year is from the trust fund  
 41.13 to the Legislative-Citizen Commission on  
 41.14 Minnesota Resources for administration in  
 41.15 fiscal years 2026 and 2027 as provided in  
 41.16 Minnesota Statutes, section 116P.09,  
 41.17 subdivision 5. This appropriation is available  
 41.18 until June 30, 2027. Notwithstanding  
 41.19 Minnesota Statutes, section 116P.11,  
 41.20 paragraph (b), Minnesota Statutes, section  
 41.21 16A.281, applies to this appropriation.

41.22 **(d) Legislative Coordinating Commission Legacy**  
 41.23 **Website**

41.24 \$3,000 the first year is from the trust fund to  
 41.25 the Legislative Coordinating Commission for  
 41.26 the website required in Minnesota Statutes,  
 41.27 section 3.303, subdivision 10.

41.28 **Subd. 11. Availability of appropriations**

41.29 Money appropriated in this section may not  
 41.30 be spent on activities unless they are directly  
 41.31 related to and necessary for a specific  
 41.32 appropriation and are specified in the work  
 41.33 plan approved by the Legislative-Citizen  
 41.34 Commission on Minnesota Resources. Money

42.1 appropriated in this section must not be spent  
42.2 on indirect costs or other institutional overhead  
42.3 charges that are not directly related to and  
42.4 necessary for a specific appropriation. Costs  
42.5 that are directly related to and necessary for  
42.6 an appropriation, including financial services,  
42.7 human resources, information services, rent,  
42.8 and utilities, are eligible only if the costs can  
42.9 be clearly justified and individually  
42.10 documented specific to the appropriation's  
42.11 purpose and would not be generated by the  
42.12 recipient but for receipt of the appropriation.  
42.13 No broad allocations for costs in either dollars  
42.14 or percentages are allowed. Unless otherwise  
42.15 provided, the amounts in this section are  
42.16 available for three years beginning July 1,  
42.17 2025, and ending June 30, 2028, when projects  
42.18 must be completed and final products  
42.19 delivered. For acquisition of real property, the  
42.20 appropriations in this section are available for  
42.21 an additional fiscal year if a binding contract  
42.22 for acquisition of the real property is entered  
42.23 into before the expiration date of the  
42.24 appropriation. If a project receives a federal  
42.25 award, the period of the appropriation is  
42.26 extended to equal the federal award period to  
42.27 a maximum trust fund appropriation length of  
42.28 six years.

42.29 **Subd. 12. Data availability requirements**

42.30 Data collected by the projects funded under  
42.31 this section must conform to guidelines and  
42.32 standards adopted by Minnesota IT Services.  
42.33 Spatial data must also conform to additional  
42.34 guidelines and standards designed to support  
42.35 data coordination and distribution that have

43.1 been published by the Minnesota Geospatial  
43.2 Information Office. Descriptions of spatial  
43.3 data must be prepared as specified in the state's  
43.4 geographic metadata guidelines and final data  
43.5 must be uploaded to the Minnesota Geospatial  
43.6 Commons upon project completion. All data  
43.7 must be accessible and free to the public  
43.8 unless made private under the Data Practices  
43.9 Act, Minnesota Statutes, chapter 13. To the  
43.10 extent practicable, summary data and results  
43.11 of projects funded under this section should  
43.12 be readily accessible on the Internet and  
43.13 identified as having received funding from the  
43.14 environment and natural resources trust fund.

43.15 **Subd. 13. Project requirements**

43.16 (a) As a condition of accepting an  
43.17 appropriation under this section, an agency or  
43.18 entity receiving an appropriation or a party to  
43.19 an agreement from an appropriation must  
43.20 comply with paragraphs (b) to (m) and  
43.21 Minnesota Statutes, chapter 116P, and must  
43.22 submit a work plan and annual or semiannual  
43.23 progress reports in the form determined by the  
43.24 Legislative-Citizen Commission on Minnesota  
43.25 Resources for any project funded in whole or  
43.26 in part with money from the appropriation.  
43.27 Modifications to the approved work plan and  
43.28 budget expenditures must be made through  
43.29 the amendment process established by the  
43.30 Legislative-Citizen Commission on Minnesota  
43.31 Resources.

43.32 (b) A recipient of money appropriated in this  
43.33 section that conducts a restoration using  
43.34 money appropriated in this section must use  
43.35 native plant species according to the Board of

44.1 Water and Soil Resources' native vegetation  
44.2 establishment and enhancement guidelines  
44.3 and include an appropriate diversity of native  
44.4 species selected to provide habitat for  
44.5 pollinators throughout the growing season as  
44.6 required under Minnesota Statutes, section  
44.7 84.973.

44.8 (c) For all restorations conducted with money  
44.9 appropriated under this section, a recipient  
44.10 must prepare an ecological restoration and  
44.11 management plan that, to the degree  
44.12 practicable, is consistent with the  
44.13 highest-quality conservation and ecological  
44.14 goals for the restoration site. Consideration  
44.15 should be given to soil, geology, topography,  
44.16 and other relevant factors that would provide  
44.17 the best chance for long-term success and  
44.18 durability of the restoration project. The plan  
44.19 must include the proposed timetable for  
44.20 implementing the restoration, including site  
44.21 preparation, establishment of diverse plant  
44.22 species, maintenance, and additional  
44.23 enhancement to establish the restoration;  
44.24 identify long-term maintenance and  
44.25 management needs of the restoration and how  
44.26 the maintenance, management, and  
44.27 enhancement will be financed; and take  
44.28 advantage of the best-available science and  
44.29 include innovative techniques to achieve the  
44.30 best restoration.

44.31 (d) An entity receiving an appropriation in this  
44.32 section for restoration activities must provide  
44.33 an initial restoration evaluation at the  
44.34 completion of the appropriation and an  
44.35 evaluation three years after the completion of

45.1 the expenditure. Restorations must be  
45.2 evaluated relative to the stated goals and  
45.3 standards in the restoration plan, current  
45.4 science, and, when applicable, the Board of  
45.5 Water and Soil Resources' native vegetation  
45.6 establishment and enhancement guidelines.  
45.7 The evaluation must determine whether the  
45.8 restorations are meeting planned goals,  
45.9 identify any problems with implementing the  
45.10 restorations, and, if necessary, give  
45.11 recommendations on improving restorations.  
45.12 The evaluation must be focused on improving  
45.13 future restorations.

45.14 (e) All restoration and enhancement projects  
45.15 funded with money appropriated in this section  
45.16 must be on land permanently protected by a  
45.17 conservation easement or public ownership.

45.18 (f) A recipient of money from an appropriation  
45.19 under this section must give consideration to  
45.20 contracting with Conservation Corps  
45.21 Minnesota for contract restoration and  
45.22 enhancement services.

45.23 (g) All conservation easements acquired with  
45.24 money appropriated under this section must:

45.25 (1) be permanent;  
45.26 (2) specify the parties to the easement in the  
45.27 easement document;  
45.28 (3) specify all provisions of an agreement that  
45.29 are permanent;  
45.30 (4) be sent to the Legislative-Citizen  
45.31 Commission on Minnesota Resources in an  
45.32 electronic format at least 20 business days  
45.33 before closing;

46.1 (5) include a long-term monitoring and  
46.2 enforcement plan and funding for monitoring  
46.3 and enforcing the easement agreement; and  
46.4 (6) include requirements in the easement  
46.5 document to protect the quantity and quality  
46.6 of groundwater and surface water through  
46.7 specific activities, such as keeping water on  
46.8 the landscape, reducing nutrient and  
46.9 contaminant loading, and not permitting  
46.10 artificial hydrological modifications.

46.11 (h) For any acquisition of lands or interest in  
46.12 lands, a recipient of money appropriated under  
46.13 this section must not agree to pay more than  
46.14 100 percent of the appraised value for a parcel  
46.15 of land using this money to complete the  
46.16 purchase, in part or in whole, except that up  
46.17 to ten percent above the appraised value may  
46.18 be allowed to complete the purchase, in part  
46.19 or in whole, using this money if permission is  
46.20 received in advance of the purchase from the  
46.21 Legislative-Citizen Commission on Minnesota  
46.22 Resources.

46.23 (i) For any acquisition of land or interest in  
46.24 land, a recipient of money appropriated under  
46.25 this section must give priority to high-quality  
46.26 natural resources or conservation lands that  
46.27 provide natural buffers to water resources.

46.28 (j) For new lands acquired with money  
46.29 appropriated under this section, a recipient  
46.30 must prepare an ecological restoration and  
46.31 management plan in compliance with  
46.32 paragraph (c), including sufficient funding for  
46.33 implementation unless the work plan addresses  
46.34 why a portion of the money is not necessary  
46.35 to achieve a high-quality restoration.

47.1 (k) To ensure public accountability for using  
47.2 public money, a recipient of money  
47.3 appropriated under this section must, within  
47.4 60 days of a land acquisition, provide to the  
47.5 Legislative-Citizen Commission on Minnesota  
47.6 Resources documentation of the selection  
47.7 process used to identify parcels acquired and  
47.8 provide documentation of all related  
47.9 transaction costs, including but not limited to  
47.10 appraisals, legal fees, recording fees,  
47.11 commissions, other similar costs, and  
47.12 donations. This information must be provided  
47.13 for all parties involved in the transaction. The  
47.14 recipient must also report to the  
47.15 Legislative-Citizen Commission on Minnesota  
47.16 Resources any difference between the  
47.17 acquisition amount paid to the seller and the  
47.18 state-certified or state-reviewed appraisal, if  
47.19 a state-certified or state-reviewed appraisal  
47.20 was conducted.

47.21 (l) A recipient of an appropriation from the  
47.22 trust fund under this section must acknowledge  
47.23 financial support from the environment and  
47.24 natural resources trust fund in project  
47.25 publications, signage, and other public  
47.26 communications and outreach related to work  
47.27 completed using the appropriation.

47.28 Acknowledgment may occur, as appropriate,  
47.29 through use of the trust fund logo or inclusion  
47.30 of language attributing support from the trust  
47.31 fund. Each direct recipient of money  
47.32 appropriated in this section, as well as each  
47.33 recipient of a grant awarded pursuant to this  
47.34 section, must satisfy all reporting and other  
47.35 requirements incumbent upon constitutionally  
47.36 dedicated funding recipients as provided in

48.1 Minnesota Statutes, section 3.303, subdivision  
48.2 10, and chapter 116P.

48.3 (m) A recipient of an appropriation from the  
48.4 trust fund under this section that is receiving  
48.5 funding to conduct children's services, as  
48.6 defined in Minnesota Statutes, section  
48.7 299C.61, subdivision 7, must certify to the  
48.8 Legislative-Citizen Commission on Minnesota  
48.9 Resources, as part of the required work plan,  
48.10 that criminal background checks for  
48.11 background check crimes, as defined in  
48.12 Minnesota Statutes, section 299C.61,  
48.13 subdivision 2, are performed on all employees,  
48.14 contractors, and volunteers that have or may  
48.15 have access to a child to whom the recipient  
48.16 provides children's services using the  
48.17 appropriation.

48.18 **Subd. 14. Payment conditions and capital**  
48.19 **equipment expenditures**

48.20 (a) All agreements, grants, or contracts  
48.21 referred to in this section must be administered  
48.22 on a reimbursement basis unless otherwise  
48.23 provided in this section. Notwithstanding  
48.24 Minnesota Statutes, section 16A.41,  
48.25 expenditures made on or after July 1, 2025,  
48.26 or the date the work plan is approved,  
48.27 whichever is later, are eligible for  
48.28 reimbursement unless otherwise provided in  
48.29 this section. Periodic payments must be made  
48.30 upon receiving documentation that the  
48.31 deliverable items articulated in the approved  
48.32 work plan have been achieved, including  
48.33 partial achievements as evidenced by approved  
48.34 progress reports. Reasonable amounts may be  
48.35 advanced to projects to accommodate



49.1 cash-flow needs or match federal money. The  
 49.2 advances must be approved as part of the work  
 49.3 plan. No expenditures for capital equipment  
 49.4 are allowed unless expressly authorized in the  
 49.5 project work plan.

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

49.8 **Subd. 15. Purchasing recycled and recyclable**  
 49.9 **materials**

49.10 A political subdivision, public or private  
 49.11 corporation, or other entity that receives an  
 49.12 appropriation under this section must use the  
 49.13 appropriation in compliance with Minnesota  
 49.14 Statutes, section 16C.0725, regarding  
 49.15 purchasing recycled, repairable, and durable  
 49.16 materials, and Minnesota Statutes, section  
 49.17 16C.073, regarding purchasing and using  
 49.18 paper stock and printing.

49.19 **Subd. 16. Accessibility**

49.20 Structural and nonstructural facilities must  
 49.21 meet the design standards in the Americans  
 49.22 with Disabilities Act (ADA) accessibility  
 49.23 guidelines.

49.24 **Subd. 17. Carryforward; extensions**

49.25 (a) The availability of the appropriations for  
 49.26 the following projects is extended to June 30,  
 49.27 2026:

49.28 (1) Laws 2021, First Special Session chapter  
 49.29 6, article 5, section 2, subdivision 3, paragraph  
 49.30 (d), Foundational Hydrology Data for Wetland  
 49.31 Protection and Restoration;

49.32 (2) Laws 2021, First Special Session chapter  
 49.33 6, article 5, section 2, subdivision 6, paragraph

- 50.1 (b), Protect Community Forests by Managing  
50.2 Ash for Emerald Ash Borer;
- 50.3 (3) Laws 2021, First Special Session chapter  
50.4 6, article 5, section 2, subdivision 9, paragraph  
50.5 (t), Chippewa County Acquisition, Recreation,  
50.6 and Education;
- 50.7 (4) Laws 2021, First Special Session chapter  
50.8 6, article 6, section 2, subdivision 3, paragraph  
50.9 (g), Geologic Atlases for Water Resource  
50.10 Management;
- 50.11 (5) Laws 2021, First Special Session chapter  
50.12 6, article 6, section 2, subdivision 3, paragraph  
50.13 (n), Bioacoustics for Broad-Scale Species  
50.14 Monitoring and Conservation;
- 50.15 (6) Laws 2022, chapter 94, section 2,  
50.16 subdivision 4, paragraph (f), Water and  
50.17 Climate Information to Enhance Community  
50.18 Resilience;
- 50.19 (7) Laws 2022, chapter 94, section 2,  
50.20 subdivision 4, paragraph (i), Is the Tire  
50.21 Chemical 6PPDq Killing Minnesota's Fish?;
- 50.22 (8) Laws 2022, chapter 94, section 2,  
50.23 subdivision 7, paragraph (a), Green Solar Cells  
50.24 from a Minnesota Natural Resource;
- 50.25 (9) Laws 2022, chapter 94, section 2,  
50.26 subdivision 8, paragraph (d), Hastings Lake  
50.27 Rebecca Park Area;
- 50.28 (10) Laws 2022, chapter 94, section 2,  
50.29 subdivision 9, paragraph (a), Mesabi Trail:  
50.30 Wahlsten Road (CR 26) to Tower; and
- 50.31 (11) Laws 2022, chapter 94, section 2,  
50.32 subdivision 9, paragraph (j), Silver Bay  
50.33 Multimodal Trailhead Project.

51.1 (b) The availability of the appropriations for  
 51.2 the following projects is extended to June 30,  
 51.3 2027:

51.4 (1) Laws 2022, chapter 94, section 2,  
 51.5 subdivision 4, paragraph (g), Catch and  
 51.6 Reveal: Discovering Unknown Fish  
 51.7 Contamination Threats;

51.8 (2) Laws 2022, chapter 94, section 2,  
 51.9 subdivision 9, paragraph (e), Native Prairie  
 51.10 Stewardship and Prairie Bank Easement  
 51.11 Acquisition;

51.12 (3) Laws 2022, chapter 94, section 2,  
 51.13 subdivision 9, paragraph (h), SNA Habitat  
 51.14 Restoration and Public Engagement; and

51.15 (4) Laws 2022, chapter 94, section 2,  
 51.16 subdivision 9, paragraph (n), Ranier Safe  
 51.17 Harbor/Transient Dock - Phase 2.

51.18 **EFFECTIVE DATE.** Subdivision 17 is effective the day following final enactment.

51.19 Sec. 3. Laws 2024, chapter 83, section 2, subdivision 3, is amended to read:

51.20 **Subd. 3. Foundational Natural Resource Data**  
 51.21 **and Information**

-0- 14,993,000

51.22 **(a) Native Plant Community Data in the City of**  
 51.23 **Duluth**

51.24 \$198,000 the second year is from the trust  
 51.25 fund to the commissioner of natural resources  
 51.26 for an agreement with Minnesota Land Trust  
 51.27 to develop field-verified native plant  
 51.28 community data and maps for the city of  
 51.29 Duluth and the St. Louis River estuary to  
 51.30 support conservation and restoration activities.

51.31 **(b) Reconstructing Historical Wild Rice to**  
 51.32 **Understand Its Future**

52.1 \$200,000 the second year is from the trust  
 52.2 fund to the Science Museum of Minnesota for  
 52.3 the St. Croix Watershed Research Station to  
 52.4 characterize environmental drivers  
 52.5 contributing to the decline of wild rice using  
 52.6 lake sediment cores to reconstruct historical  
 52.7 wild rice abundance in relation to lake and  
 52.8 watershed stressors.

52.9 **(c) Characterizing Tree Cavities and Use by**  
 52.10 **Minnesota's Wildlife**

52.11 \$349,000 the second year is from the trust  
 52.12 fund to the Board of Regents of the University  
 52.13 of Minnesota for the Natural Resources  
 52.14 Research Institute in Duluth to assess the  
 52.15 effects of forest management on Minnesota's  
 52.16 primary cavity engineer, the pileated  
 52.17 woodpecker, and on the wildlife that rely on  
 52.18 the cavities that pileated woodpeckers create.  
 52.19 This appropriation is also to develop  
 52.20 management guidelines.

52.21 **(d) Fate of Minnesota's Lakes in the Next**  
 52.22 **Century**

52.23 \$453,000 the second year is from the trust  
 52.24 fund to the Board of Regents of the University  
 52.25 of Minnesota to use new modeling techniques  
 52.26 to quantify how water quality of Minnesota's  
 52.27 lakes will change in the next century under  
 52.28 future land use and climate change scenarios  
 52.29 and to create an online web tool to display the  
 52.30 results. This appropriation is subject to  
 52.31 Minnesota Statutes, section 116P.10. This  
 52.32 appropriation is available until June 30, 2028,  
 52.33 by which time the project must be completed  
 52.34 and final products delivered.

52.35 **(e) Turtle Island Skywatchers - Minnesota**  
 52.36 **Research and Data Visualization**

53.1 \$200,000 the second year is from the trust  
 53.2 fund to the commissioner of natural resources  
 53.3 for an agreement with Native Skywatchers  
 53.4 Inc. to engage youth in environmental  
 53.5 stewardship by collecting images and acoustic  
 53.6 data from turtles and other culturally  
 53.7 significant animals and their habitats,  
 53.8 evaluating the differences in these soundscapes  
 53.9 across landscapes, and sharing the results  
 53.10 through scientific storytelling and online  
 53.11 platforms.

53.12 **(f) Monitoring Minnesota's Insects: Connecting**  
 53.13 **Habitat to Insect Prey**

53.14 \$199,000 the second year is from the trust  
 53.15 fund to the Board of Regents of the University  
 53.16 of Minnesota to investigate the ecological  
 53.17 roles of and energy transfer by certain  
 53.18 Minnesota insects throughout their life cycles  
 53.19 and to train future insect researchers on field  
 53.20 techniques.

53.21 **(g) Determining Ambient Background PFAS**  
 53.22 **Concentrations in Minnesota Soils**

53.23 \$621,000 the second year is from the trust  
 53.24 fund to the commissioner of the Pollution  
 53.25 Control Agency to determine ambient  
 53.26 background per- and polyfluoroalkyl substance  
 53.27 (PFAS) levels in urban and nonurban soils to  
 53.28 help Minnesota develop management  
 53.29 strategies for PFAS-contaminated soils. This  
 53.30 appropriation is available until June 30, 2028,  
 53.31 by which time the project must be completed  
 53.32 and final products delivered.

53.33 **(h) Investigating Life History Characteristics of**  
 53.34 **Minnesota Elk**

54.1 \$933,000 the second year is from the trust  
54.2 fund to the commissioner of natural resources  
54.3 to assess Minnesota elk herd health and  
54.4 genetic diversity, movements, survival, and  
54.5 causes of mortality and to develop a  
54.6 noninvasive, safer, and more accurate method  
54.7 to estimate population size. This appropriation  
54.8 is available until June 30, 2028, by which time  
54.9 the project must be completed and final  
54.10 products delivered.

54.11 **(i) Foundational Data for Moth and Butterfly**  
54.12 **Conservation**

54.13 \$195,000 the second year is from the trust  
54.14 fund to the commissioner of natural resources  
54.15 to perform field surveys and consolidate  
54.16 existing data to create the first comprehensive  
54.17 list of Minnesota moths and butterflies. This  
54.18 appropriation is also to conduct outreach to  
54.19 inform land managers and to facilitate public  
54.20 appreciation of these species.

54.21 **(j) DNR County Groundwater Atlas**

54.22 \$3,200,000 the second year is from the trust  
54.23 fund to the commissioner of natural resources  
54.24 to continue producing county groundwater  
54.25 atlases to inform management of surface water  
54.26 and groundwater resources for drinking and  
54.27 other purposes. This appropriation is for Part  
54.28 B, to characterize the potential water yields of  
54.29 aquifers and aquifers' sensitivity to  
54.30 contamination.

54.31 **(k) Voyageurs Wolf Project - Phase III**

54.32 \$996,000 the second year is from the trust  
54.33 fund to the Board of Regents of the University  
54.34 of Minnesota to continue to study summertime  
54.35 wolf predation on deer, moose, and other

55.1 species in the greater Voyageurs ecosystem  
 55.2 to inform wildlife management and to share  
 55.3 natural history of this species with the public.  
 55.4 This appropriation is available until June 30,  
 55.5 2028, by which time the project must be  
 55.6 completed and final products delivered.

55.7 **(l) Distribution and Population Status of Weasels**  
 55.8 **in Minnesota**

55.9 \$400,000 the second year is from the trust  
 55.10 fund to the Board of Regents of the University  
 55.11 of Minnesota for the Natural Resources  
 55.12 Research Institute in Duluth to determine the  
 55.13 distribution, relative abundance, and spatial  
 55.14 occupancy patterns of small weasel species in  
 55.15 Minnesota to fill key knowledge gaps in  
 55.16 weasel distribution and status in Minnesota.

55.17 **(m) Improving Aquatic Plant Knowledge for**  
 55.18 **Healthy Waters**

55.19 \$198,000 the second year is from the trust  
 55.20 fund to the commissioner of natural resources  
 55.21 to collect foundational data on Minnesota's  
 55.22 native aquatic plant biodiversity through new  
 55.23 and enhanced lake surveys and to disseminate  
 55.24 results to state resource managers, scientists,  
 55.25 and the public.

55.26 **(n) New Small Mammal Monitoring Methods**  
 55.27 **for Minnesota**

55.28 \$199,000 the second year is from the trust  
 55.29 fund to the Board of Regents of the University  
 55.30 of Minnesota for the Natural Resources  
 55.31 Research Institute in Duluth to develop camera  
 55.32 trapping methods as a new tool to collect  
 55.33 foundational data and fill key knowledge gaps  
 55.34 in the status of small mammal species in  
 55.35 Minnesota.

56.1 **(o) Status of Bats and Roost Trees after**  
56.2 **White-Nose Syndrome**

56.3 \$195,000 the second year is from the trust  
56.4 fund to the Board of Regents of the University  
56.5 of Minnesota for the Natural Resources  
56.6 Research Institute in Duluth to study changes  
56.7 in maternity roost trees and bat populations in  
56.8 the forested areas of Minnesota and to evaluate  
56.9 the effects of years of white-nose syndrome  
56.10 on Minnesota bats.

56.11 **(p) Sublethal Effects of Pesticides on the**  
56.12 **Invertebrate Community**

56.13 \$387,000 the second year is from the trust  
56.14 fund to the Board of Regents of the University  
56.15 of Minnesota to provide data on pesticide  
56.16 contamination in soil and the insect  
56.17 community across the state and the effect of  
56.18 insecticide exposure on insect reproduction.  
56.19 This appropriation is available until June 30,  
56.20 2029, by which time the project must be  
56.21 completed and final products delivered.

56.22 **(q) Modernizing Minnesota's Plant Community**  
56.23 **Classification and Field Guides**

56.24 \$1,800,000 the second year is from the trust  
56.25 fund to the commissioner of natural resources  
56.26 to collect additional vegetation and  
56.27 environmental data and update the state's  
56.28 20-year-old native plant community  
56.29 classification guides to incorporate new data,  
56.30 streamline user application and access to  
56.31 products, and include analysis of climate and  
56.32 vegetation trends. Net income generated as  
56.33 part of this appropriation may be reinvested  
56.34 in the project if a plan for reinvestment is  
56.35 approved in the work plan. This appropriation



57.1 is subject to Minnesota Statutes, section  
57.2 116P.10.

57.3 **(r) Assessing Prairie Health to Inform Pollinator**  
57.4 **Conservation**

57.5 \$297,000 the second year is from the trust  
57.6 fund to the Minnesota Zoological Society to  
57.7 assess habitat quality and pesticide occurrence  
57.8 in Minnesota prairies to help inform  
57.9 management actions, endangered species  
57.10 recovery plans, and pollinator reintroduction  
57.11 efforts for endangered and threatened  
57.12 butterflies and other wildlife.

57.13 **(s) Understanding Native Fishes in the**  
57.14 **Bowfishing Era**

57.15 \$588,000 the second year is from the trust  
57.16 fund to the Board of Regents of the University  
57.17 of Minnesota, Duluth, to collect foundational  
57.18 biological information on a selection of native  
57.19 Minnesota fish to aid in sustainable  
57.20 management, improve recreational  
57.21 opportunities, and educate the public about  
57.22 these shared aquatic resources. This  
57.23 appropriation is available until June 30, 2028,  
57.24 by which time the project must be completed  
57.25 and final products delivered.

57.26 **(t) Preserving Minnesota Wildflower**  
57.27 **Information**

57.28 \$199,000 the second year is from the trust  
57.29 fund to the Board of Regents of the University  
57.30 of Minnesota, Bell Museum of Natural  
57.31 History, to preserve and enhance Minnesota  
57.32 Wildflowers Information, an online tool for  
57.33 plant identification, by integrating the content  
57.34 and functionality of the website with the  
57.35 Minnesota Biodiversity Atlas for public use

58.1 as required by Laws 2017, chapter 96, section  
58.2 2, subdivision 3, paragraph (e).

58.3 **(u) White-Tailed Deer Movement and Disease**  
58.4 **in Suburban Areas**

58.5 \$699,000 the second year is from the trust  
58.6 fund to the Board of Regents of the University  
58.7 of Minnesota to better understand white-tailed  
58.8 deer movement, habitat use, and disease  
58.9 dynamics at the suburban-agricultural interface  
58.10 to inform more efficient deer management and  
58.11 disease control.

58.12 **(v) Highly Pathogenic Avian Influenza and**  
58.13 **Minnesota Raptors**

58.14 \$187,000 the second year is from the trust  
58.15 fund to the Board of Regents of the University  
58.16 of Minnesota for the Raptor Center to evaluate  
58.17 Minnesota raptors for current or past infections  
58.18 with highly pathogenic avian influenza virus  
58.19 to better understand disease transmission and  
58.20 outbreak impacts on raptor populations.

58.21 **(w) Geologic Atlases for Water Resource**  
58.22 **Management**

58.23 \$1,236,000 the second year is from the trust  
58.24 fund to the Board of Regents of the University  
58.25 of Minnesota, Minnesota Geological Survey,  
58.26 to continue producing county geologic atlases  
58.27 to inform management of surface water and  
58.28 groundwater resources. This appropriation is  
58.29 to complete Part A, which focuses on the  
58.30 properties and distribution of earth materials  
58.31 to define aquifer boundaries and the  
58.32 connection of aquifers to the land surface and  
58.33 surface water resources.

58.34 **(x) Remote Sensing for Pollinator Habitat**

59.1 \$180,000 the second year is from the trust  
 59.2 fund to the commissioner of natural resources  
 59.3 for an agreement with Monarch Joint Venture  
 59.4 to use remote sensing technology to evaluate  
 59.5 pollinator habitat on energy and transportation  
 59.6 corridors across Minnesota and to host  
 59.7 field-day training workshops. Net income  
 59.8 generated as part of this appropriation may be  
 59.9 reinvested in the project if a plan for  
 59.10 reinvestment is approved in the work plan as  
 59.11 provided under Minnesota Statutes, section  
 59.12 116P.10.

59.13 **(y) Harnessing Cover Crops and Roots for**  
 59.14 **Sustainable Cropping**

59.15 \$375,000 the second year is from the trust  
 59.16 fund to the Board of Regents of the University  
 59.17 of Minnesota to determine carbon  
 59.18 sequestration, nitrogen credit potential, water  
 59.19 use, and performance of cover crops in  
 59.20 corn-soybean and corn-soybean-wheat  
 59.21 rotations in southern Minnesota.

59.22 **(z) Effects of Conservation Grazing on Solar**  
 59.23 **Sites Managed for Pollinator Habitat**

59.24 \$88,000 the second year is from the trust fund  
 59.25 to the commissioner of natural resources for  
 59.26 an agreement with Minnesota Native  
 59.27 Landscapes, in partnership with Temple  
 59.28 University, to analyze the effects of sheep  
 59.29 grazing and mowing on the vegetation and  
 59.30 soils of solar sites managed for pollinator  
 59.31 habitat and to improve understanding of the  
 59.32 environmental outcomes from the collocation  
 59.33 of solar panels; grazing; and native,  
 59.34 pollinator-friendly vegetation. This  
 59.35 appropriation is available until June 30, 2029,

60.1 by which time the project must be completed  
60.2 and final products delivered.

60.3 **(aa) Genetic Detection of Endangered Mussels**  
60.4 **in the Mississippi**

60.5 \$241,000 the second year is from the trust  
60.6 fund to the commissioner of natural resources  
60.7 for an agreement with the United States  
60.8 Geological Survey, Ohio Water Microbiology  
60.9 Lab, to create, optimize, and use eDNA assays  
60.10 to detect the presence of endangered or  
60.11 threatened mussel species around Buffalo  
60.12 Slough near the Prairie Island Indian  
60.13 Community.

60.14 **(bb) Integrated Population Modeling for**  
60.15 **Trumpeter Swans**

60.16 \$180,000 the second year is from the trust  
60.17 fund to the Board of Regents of the University  
60.18 of Minnesota to compile and use all available  
60.19 data to model historical population abundance  
60.20 and estimate future population dynamics of  
60.21 Minnesota trumpeter swans.

60.22 **EFFECTIVE DATE.** This section is effective retroactively from July 1, 2024.

60.23 Sec. 4. Laws 2024, chapter 83, section 2, subdivision 8, is amended to read:

60.24 **Subd. 8. Methods to Protect or Restore Land,**  
60.25 **Water, and Habitat**

-0- 10,910,000

60.26 **(a) Long-Term Preservation of Minnesota's Ball**  
60.27 **Cactus Population**

60.28 \$100,000 the second year is from the trust  
60.29 fund to the Board of Regents of the University  
60.30 of Minnesota for the Minnesota Landscape  
60.31 Arboretum to protect Minnesota's only  
60.32 population of ball cactus by supporting  
60.33 population expansion and establishment,  
60.34 monitoring transferred plants, and training

61.1 long-term volunteer monitors. This  
61.2 appropriation is available until June 30, 2029,  
61.3 by which time the project must be completed  
61.4 and final products delivered.

61.5 **(b) Morrison County Historical Society**  
61.6 **Streambank Stabilization and Restoration**

61.7 \$519,000 the second year is from the trust  
61.8 fund to the commissioner of natural resources  
61.9 for an agreement with the Morrison Soil and  
61.10 Water Conservation District to stabilize and  
61.11 restore land along the Mississippi River owned  
61.12 by the Morrison County Historical Society  
61.13 within the statutory boundaries of Charles A.  
61.14 Lindbergh State Park to improve water quality  
61.15 and improve aquatic and terrestrial habit. For  
61.16 purposes of this appropriation, subdivision 13,  
61.17 paragraph (e), does not apply. The  
61.18 commissioner of natural resources may make  
61.19 reasonable amounts of this appropriation  
61.20 available on an advance basis to accommodate  
61.21 the Morrison Soil and Water Conservation  
61.22 District's cash-flow needs if a plan for the  
61.23 advances is approved as part of the work plan.

61.24 **(c) Can Increased Tree Diversity Increase**  
61.25 **Community Diversity?**

61.26 \$415,000 the second year is from the trust  
61.27 fund to the Board of Regents of the University  
61.28 of Minnesota to evaluate impacts of increasing  
61.29 tree diversity on wildlife, plant and fungal  
61.30 communities, and carbon storage within aspen  
61.31 forests in northern Minnesota to develop best  
61.32 management practices for mixed woodland  
61.33 systems.

61.34 **(d) Restoration of Riverside Park**

62.1 \$141,000 the second year is from the trust  
 62.2 fund to the commissioner of natural resources  
 62.3 for an agreement with the city of Long Prairie  
 62.4 to improve water retention, increase native  
 62.5 habitat, and enhance footpaths for recreation  
 62.6 at Riverside Park in Todd County, Minnesota.  
 62.7 The project must create a net increase in  
 62.8 habitat, and this appropriation may not be used  
 62.9 to meet the conditions of any permits received  
 62.10 for the project.

62.11 **(e) Pollinator Central IV: Habitat Improvement**  
 62.12 **with Public Engagement**

62.13 \$698,000 the second year is from the trust  
 62.14 fund to the commissioner of natural resources  
 62.15 for an agreement with Great River Greening  
 62.16 to partner with municipalities, educational  
 62.17 organizations, and volunteers to create and  
 62.18 enhance pollinator habitat along public  
 62.19 corridors from Lakeville to St. Cloud and to  
 62.20 engage youth and the public through education  
 62.21 and monitoring the impact of habitat  
 62.22 improvements. This appropriation is available  
 62.23 until June 30, 2028, by which time the project  
 62.24 must be completed and final products  
 62.25 delivered.

62.26 **(f) Conservation Grazing for Birds, Beef, and**  
 62.27 **Better Soil**

62.28 \$342,000 the second year is from the trust  
 62.29 fund to the commissioner of natural resources  
 62.30 for an agreement with the National Audubon  
 62.31 Society, Minnesota office, to assess Audubon  
 62.32 Conservation Ranching as a strategic approach  
 62.33 to improve grassland biodiversity, soils, and  
 62.34 ecosystem resilience. This appropriation is  
 62.35 available until June 30, 2028, by which time

63.1 the project must be completed and final  
63.2 products delivered.

63.3 **(g) Minnesota Microbes for Enhanced**  
63.4 **Biodegradation of Microplastics**

63.5 \$524,000 the second year is from the trust  
63.6 fund to the Board of Regents of the University  
63.7 of Minnesota to investigate the potential of  
63.8 natural and indigenous microbes to biodegrade  
63.9 conventional plastics in contaminated soils  
63.10 and waters across the state. This appropriation  
63.11 is subject to Minnesota Statutes, section  
63.12 116P.10.

63.13 **(h) Completing the Mississippi River Greenway:**  
63.14 **Dakota County**

63.15 \$657,000 the second year is from the trust  
63.16 fund to the commissioner of natural resources  
63.17 for an agreement with Dakota County to  
63.18 restore and enhance habitat on public lands,  
63.19 establish linear native plantings, and install  
63.20 electric-vehicle charging stations within and  
63.21 along the 27-mile Mississippi River Greenway  
63.22 in Dakota County. Net income generated as  
63.23 part of this appropriation may be reinvested  
63.24 in the project if a plan for reinvestment is  
63.25 approved in the work plan. This appropriation  
63.26 is subject to Minnesota Statutes, section  
63.27 116P.10, and is available until June 30, 2028,  
63.28 by which time the project must be completed  
63.29 and final products delivered.

63.30 **(i) Enabling Nature to Destroy Environmental**  
63.31 **PFAS Contaminants**

63.32 \$378,000 the second year is from the trust  
63.33 fund to the Board of Regents of the University  
63.34 of Minnesota to identify enzymes and  
63.35 microbes that can break down soil-based per-

64.1 and polyfluoroalkyl substances (PFAS) into  
64.2 nontoxic elements. This appropriation is  
64.3 subject to Minnesota Statutes, section 116P.10.

64.4 **(j) Bioacoustics for Species Monitoring and**  
64.5 **Conservation - Phase 2**

64.6 \$568,000 the second year is from the trust  
64.7 fund to the Board of Regents of the University  
64.8 of Minnesota to assess avian diversity at the  
64.9 statewide scale by developing a citizen science  
64.10 bioacoustics monitoring program with an  
64.11 initial focus on private lands.

64.12 **(k) Preventing PFAS and Microplastics**  
64.13 **Contaminants Across Minnesota**

64.14 \$656,000 the second year is from the trust  
64.15 fund to the Board of Regents of the University  
64.16 of Minnesota to help stop the flow of per- and  
64.17 polyfluoroalkyl substances (PFAS) and  
64.18 microplastics contaminants into Minnesota's  
64.19 environment by developing strategies and  
64.20 technologies to manage solid waste streams  
64.21 on site. This appropriation is subject to  
64.22 Minnesota Statutes, section 116P.10.

64.23 **(l) Shingle Creek Aquatic and Shoreline Habitat**  
64.24 **Enhancement**

64.25 \$1,100,000 the second year is from the trust  
64.26 fund to the commissioner of natural resources  
64.27 for an agreement with the Minneapolis Park  
64.28 and Recreation Board to plan and restore a  
64.29 section of Shingle Creek in north Minneapolis  
64.30 with native aquatic and shoreline vegetation,  
64.31 channel and bank modification, and natural  
64.32 stream features. This appropriation is also to  
64.33 monitor plant and animal health following  
64.34 construction to ensure that the ecological  
64.35 functioning of the creek corridor is restored.



65.1 This appropriation is available until June 30,  
65.2 2030, by which time the project must be  
65.3 completed and final products delivered.

65.4 **(m) LiDAR Technology to Help Prevent Wildlife**  
65.5 **Fatalities from Wind Turbines**

65.6 \$525,000 the second year is from the trust  
65.7 fund to the Board of Regents of the University  
65.8 of Minnesota to create a low-cost and  
65.9 advanced LiDAR system to detect bats and  
65.10 birds approaching wind turbines that may be  
65.11 used in concert with deterrence or impact  
65.12 avoidance methods to prevent collisions. This  
65.13 appropriation is subject to Minnesota Statutes,  
65.14 section 116P.10.

65.15 **(n) Road Salt Pollution of Surface Waters from**  
65.16 **Groundwater**

65.17 \$622,000 the second year is from the trust  
65.18 fund to the Board of Regents of the University  
65.19 of Minnesota to inform source-reduction  
65.20 efforts by developing a model to identify hot  
65.21 spots where road-salt-contaminated  
65.22 groundwater leads to chloride pollution of  
65.23 surface waters.

65.24 **(o) Growing the Minnesota Bison Conservation**  
65.25 **Herd**

65.26 \$1,775,000 the second year is from the trust  
65.27 fund to the commissioner of natural resources  
65.28 to reintroduce bison to Camden State Park as  
65.29 part of a statewide effort to preserve the  
65.30 American Plains bison genome.  
65.31 Reintroduction includes the design,  
65.32 construction, and installation of fencing, a  
65.33 handling facility, signage, exhibits, and other  
65.34 site improvements. This appropriation is  
65.35 available until June 30, 2030, by which time

66.1 the project must be completed and final  
66.2 products delivered.

66.3 **(p) Priority Lakes: Meeting Protection Goals**  
66.4 **and Multiplying Benefits**

66.5 \$1,890,000 the second year is from the trust  
66.6 fund to the commissioner of natural resources  
66.7 for an agreement with the Hubbard County  
66.8 Soil and Water Conservation District, in  
66.9 cooperation with Minnesota Land Trust, to  
66.10 protect habitat, forest health, and water quality  
66.11 in the best fishing lakes by creating lake  
66.12 implementation action plans, conducting  
66.13 community-based habitat restorations and  
66.14 improvements, and protecting forest lands with  
66.15 conservation easements and Sustainable Forest  
66.16 Incentive Act (SFIA) enrollments within  
66.17 prioritized areas of the upper Mississippi River  
66.18 basin ~~in Hubbard County~~. Of this amount, up  
66.19 to \$168,000 is for deposit in a monitoring fund  
66.20 to be used by Minnesota Land Trust as  
66.21 approved in the work plan and subject to  
66.22 Minnesota Statutes, section 116P.20.

66.23 **EFFECTIVE DATE.** This section is effective retroactively from July 1, 2024.