

**SENATE  
STATE OF MINNESOTA  
NINETIETH SESSION**

**S.F. No. 550**

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

DATE	D-PG	OFFICIAL STATUS
02/02/2017	489	Introduction and first reading
		Referred to Environment and Natural Resources Finance
03/08/2017	1156a	Comm report: To pass as amended and re-refer to Finance
05/10/2017	4300a	Comm report: To pass as amended
	4493	Second reading
05/11/2017		Special Order: Amended
		Third reading Passed

1.1 A bill for an act

1.2 relating to natural resources; appropriating money from environment and natural

1.3 resources trust fund; modifying requirements for receipt of fund money; amending

1.4 Minnesota Statutes 2016, sections 116P.05, subdivision 2; 116P.17, subdivision

1.5 1; proposing coding for new law in Minnesota Statutes, chapter 477A.

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

1.7 Section 1. APPROPRIATIONS.

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

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

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

1.11 indicated for each purpose. The figures "2017," "2018," and "2019" used in this act mean

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

1.13 2017, June 30, 2018, or June 30, 2019, respectively. "The first year" is fiscal year 2018.

1.14 "The second year" is fiscal year 2019. "The biennium" is fiscal years 2018 and 2019.

1.15 Appropriations for fiscal year 2017 are available the day following final enactment.

1.16 APPROPRIATIONS

1.17 Available for the Year

1.18 Ending June 30

1.19	<u>2017</u>	<u>2018</u>	<u>2019</u>
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1.20 Sec. 2. MINNESOTA RESOURCES

1.21 Subdivision 1. Total

1.22	<u>Appropriation</u>	<u>\$ 8,428,000</u>	<u>\$ 50,733,000</u>	<u>\$ 5,089,000</u>
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2.1 The amounts that may be spent for each  
 2.2 purpose are specified in the following  
 2.3 subdivisions. Appropriations for fiscal years  
 2.4 2018 and 2019 are available for two years  
 2.5 beginning July 1, 2017, for fiscal year 2018  
 2.6 appropriations and beginning July 1, 2018, for  
 2.7 fiscal year 2019 appropriations, unless  
 2.8 otherwise stated in the appropriation. Any  
 2.9 unencumbered balance remaining in the first  
 2.10 year does not cancel and is available for the  
 2.11 second year or until the end of the  
 2.12 appropriation. Appropriations for fiscal year  
 2.13 2017 are available until June 30, 2018, unless  
 2.14 otherwise stated in the appropriation.

2.15 **Subd. 2. Definition**

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

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

4,729,000

7,872,000

89,000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.17 **(h) Groundwater Contamination Mapping**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7.19	<b><u>Subd. 4. Water Resources</u></b>	<u>-0-</u>	<u>3,175,000</u>	<u>-0-</u>
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7.20 **(a) Assessment of Household Chemicals and**  
 7.21 **Herbicides in Rivers and Lakes**

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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4,421,000-0-

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

13.22 **Subd. 6. Aquatic and**

13.23 <b><u>Terrestrial Invasive Species</u></b>	2,700,000	2,021,000	-0-
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13.24 **(a) Aquatic Invasive Species Research Center -**  
 13.25 **Phase II**

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

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

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

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

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

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

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

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

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

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

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

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

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4,738,000-0-

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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10,808,000

5,000,000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

23.22 **(m) Riparian Protection Aid**

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

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

999,000

16,358,000

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

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

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

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

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

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



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

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

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

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

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

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

26.15 **(f) Leech Lake Acquisition**

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

26.29 **(g) Mesabi Trail Development**

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

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

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

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

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

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

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

27.30 **Reimbursement**

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1,340,000

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27.31 **(a) Contract Agreement Reimbursement**

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

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

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

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

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

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

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

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

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

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

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

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

31.1 relevant factors that would provide the best  
31.2 chance for long-term success and durability  
31.3 of the restoration project. The plan must  
31.4 include the proposed timetable for  
31.5 implementing the restoration, including site  
31.6 preparation, establishment of diverse plant  
31.7 species, maintenance, and additional  
31.8 enhancement to establish the restoration;  
31.9 identify long-term maintenance and  
31.10 management needs of the restoration and how  
31.11 the maintenance, management, and  
31.12 enhancement will be financed; and take  
31.13 advantage of the best available science and  
31.14 include innovative techniques to achieve the  
31.15 best restoration.

31.16 (d) An entity receiving an appropriation in this  
31.17 section for restoration activities must provide  
31.18 an initial restoration evaluation at the  
31.19 completion of the appropriation and an  
31.20 evaluation three years beyond the completion  
31.21 of the expenditure. Restorations must be  
31.22 evaluated relative to the stated goals and  
31.23 standards in the restoration plan, current  
31.24 science, and, when applicable, the Board of  
31.25 Water and Soil Resources' native vegetation  
31.26 establishment and enhancement guidelines.  
31.27 The evaluation must determine whether the  
31.28 restorations are meeting planned goals,  
31.29 identify any problems with the implementation  
31.30 of the restorations, and, if necessary, give  
31.31 recommendations on improving restorations.  
31.32 The evaluation must be focused on improving  
31.33 future restorations.

31.34 (e) All restoration and enhancement projects  
31.35 funded with money appropriated in this section

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

36.1 obtain information and technical assistance  
 36.2 on energy conservation and alternative energy  
 36.3 development relating to planning and  
 36.4 constructing the capital improvement project.

36.5 **Subd. 17. Accessibility**

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

36.10 **Subd. 18. Carryforward; Extension**

36.11 (a) The availability of the appropriations for  
 36.12 the following projects are extended to June  
 36.13 30, 2018:

36.14 (1) Laws 2014, chapter 226, section 2,  
 36.15 subdivision 3, paragraph (d), Evaluation of  
 36.16 Wastewater Nitrogen and Estrogen Treatment  
 36.17 Options;

36.18 (2) Laws 2014, chapter 226, section 2,  
 36.19 subdivision 4, paragraph (b), Bioacoustics to  
 36.20 Detect, Deter, and Eliminate Silver Carp;

36.21 (3) Laws 2014, chapter 226, section 2,  
 36.22 subdivision 4, paragraph (f), Brown  
 36.23 Marmorated Stink Bug Monitoring and  
 36.24 Bio-Control Evaluation;

36.25 (4) Laws 2014, chapter 226, section 2,  
 36.26 subdivision 6, paragraph (h), Nutrient Capture  
 36.27 through Water Management and Biomass  
 36.28 Harvesting;

36.29 (5) Laws 2014, chapter 226, section 2,  
 36.30 subdivision 7, paragraph (b), Metropolitan  
 36.31 Regional Park System Acquisition;

36.32 (6) Laws 2015, chapter 76, section 2,  
 36.33 subdivision 3, paragraph (l), Genetic and

- 37.1 Camera Techniques to Estimate Carnivore
- 37.2 Populations;
- 37.3 (7) Laws 2015, chapter 76, section 2,
- 37.4 subdivision 7, paragraph (c), Building
- 37.5 Deconstruction to Reduce Greenhouse Gas
- 37.6 Emissions and Solid Waste; and
- 37.7 (8) Laws 2015, chapter 76, section 2,
- 37.8 subdivision 10, Emerging Issues Account.
- 37.9 (b) The availability of the appropriations for
- 37.10 the following projects are extended to June
- 37.11 30, 2019:
- 37.12 (1) Laws 2014, chapter 226, section 2,
- 37.13 subdivision 10, paragraph (c),
- 37.14 Legislative-Citizen Commission on Minnesota
- 37.15 Resources (LCCMR) as extended by Laws
- 37.16 2016, chapter 186, section 2, subdivision 18,
- 37.17 clause (8);
- 37.18 (2) Laws 2015, chapter 76, section 2,
- 37.19 subdivision 7, paragraph (a), Renewable and
- 37.20 Sustainable Fertilizers Produced Locally;
- 37.21 (3) Laws 2015, chapter 76, section 2,
- 37.22 subdivision 8, paragraph (h), Improving
- 37.23 Community Forests Through Citizen
- 37.24 Engagement; and
- 37.25 (4) Laws 2016, chapter 186, section 2,
- 37.26 subdivision 9, paragraph (b), Minnesota Point
- 37.27 Pine Forest Scientific and Natural Area
- 37.28 Acquisition.
- 37.29 **Subd. 19. Fiscal Year 2019 Recommendations**
- 37.30 (a) The Legislative-Citizen Commission on
- 37.31 Minnesota Resources shall review and
- 37.32 recommend \$20,000,000 for fiscal year 2019
- 37.33 appropriations from the trust fund for buffers,

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

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

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

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

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

38.29 (b) It is a condition of acceptance of the appropriations made from the Minnesota  
38.30 environment and natural resources trust fund, and oil overcharge money under section 4.071,  
38.31 subdivision 2, that the agency or entity receiving the appropriation must submit a work plan  
38.32 and annual or semiannual progress reports in the form determined by the Legislative-Citizen  
38.33 Commission on Minnesota Resources, and comply with applicable reporting requirements  
38.34 under section 116P.16. None of the money provided may be spent unless the commission

39.1 has approved the pertinent work plan. Modifications to the approved work plan and budget  
 39.2 expenditures shall be made through the amendment process established by the commission.  
 39.3 The commission shall ensure that the expenditures and outcomes described in the work plan  
 39.4 for appropriations funded by the environment and natural resources trust fund are met.

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

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

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

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

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

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

39.16 (4) provide for project outcome evaluation;

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

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

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

39.22 Subdivision 1. **Commissioner approval.** (a) A recipient of an appropriation from the  
 39.23 trust fund who acquires an interest in real property must receive written approval from the  
 39.24 commissioner of natural resources prior to the acquisition, if the interest is acquired in whole  
 39.25 or in part with the appropriation. A recipient must request the commissioner's approval at  
 39.26 least ten business days before the proposed acquisition. When a recipient requests approval  
 39.27 under this subdivision, the recipient must simultaneously submit the same information to  
 39.28 the commission. Conservation easements to be held by the Board of Water and Soil  
 39.29 Resources, acquisitions of land in the metropolitan regional recreation open space systems  
 39.30 as defined under section 473.351, subdivision 1, with appropriations to the Metropolitan  
 39.31 Council, and acquisitions specifically identified in appropriation laws are not subject to  
 39.32 commissioner approval under this section.

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

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

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

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

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

40.10 (1) "buffer protection map" has the meaning given under section 103F.48, subdivision  
40.11 1; and

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

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

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

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

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



41.1 (1) the sum of the total number of acres in the county classified as class 2a under section  
41.2 273.13, subdivision 23, the countywide number of centerline miles of public watercourses  
41.3 on the buffer protection map, and the countywide number of miles of public drainage system  
41.4 ditches on the buffer protection map; and

41.5 (2) the sum of the statewide total number of acres classified as class 2a under section  
41.6 273.13, subdivision 23, the statewide total number of centerline miles of public watercourses  
41.7 on the buffer protection map, and the statewide total number of public drainage system  
41.8 miles on the buffer protection map.

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

41.16 (d) If only a portion of a county is certified as eligible to receive aid under subdivision  
41.17 2, the aid otherwise payable to that county under this section must be multiplied by a fraction,  
41.18 the numerator of which is the buffer protection map miles of the certified watershed districts  
41.19 contained within the county and the denominator of which is the total buffer protection map  
41.20 miles of the county.

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

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

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