

SENATE  
STATE OF MINNESOTA  
EIGHTY-NINTH SESSION

S.F. No. 2963

(SENATE AUTHORS: DZIEDZIC, Tomassoni, Hoffman, Dahms and Westrom)

DATE	D-PG	OFFICIAL STATUS
03/17/2016		Introduction and first reading Referred to Environment and Energy

1.1 A bill for an act  
 1.2 relating to natural resources; appropriating money from environment and natural  
 1.3 resources trust fund; adding requirements for use of trust fund money; proposing  
 1.4 coding for new law in Minnesota Statutes, chapter 116P.

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  
 1.8 agencies and for the purposes specified in this act. The appropriations are from the  
 1.9 environment and natural resources trust fund, or another named fund, and are available for  
 1.10 the fiscal years indicated for each purpose. The figures "2016" and "2017" used in this act  
 1.11 mean that the appropriations listed under them are available for the fiscal year ending June  
 1.12 30, 2016, or June 30, 2017, respectively. "The first year" is fiscal year 2016. "The second  
 1.13 year" is fiscal year 2017. "The biennium" is fiscal years 2016 and 2017.

1.14		<b><u>APPROPRIATIONS</u></b>	
1.15		<b><u>Available for the Year</u></b>	
1.16		<b><u>Ending June 30</u></b>	
1.17		<b><u>2016</u></b>	<b><u>2017</u></b>

1.18 Sec. 2. MINNESOTA RESOURCES

1.19	<u>Subdivision 1. Total Appropriation</u>	<u>\$</u>	<u>-0-</u>	<u>\$</u>	<u>46,337,000</u>
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1.20	<u>Appropriations by Fund</u>			
1.21		<u>2016</u>	<u>2017</u>	
1.22	<u>Environment and</u>			
1.23	<u>natural resources</u>			
1.24	<u>trust fund</u>	<u>-0-</u>	<u>46,337,000</u>	

2.1 The amounts that may be spent for each  
 2.2 purpose are specified in the following  
 2.3 subdivisions. Appropriations are available  
 2.4 for two years beginning July 1, 2016, unless  
 2.5 otherwise stated in the appropriation. Any  
 2.6 unencumbered balance remaining in the  
 2.7 first year does not cancel and is available  
 2.8 for the second year or until the end of the  
 2.9 appropriation.

2.10 **Subd. 2. Definition.**

2.11 "Trust fund" means the Minnesota  
 2.12 environment and natural resources trust fund  
 2.13 established under Minnesota Constitution,  
 2.14 article XI, section 14.

2.15 **Subd. 3. Foundational Natural Resource Data**  
 2.16 **and Information**

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8,328,000

2.17 **(a) Data-Driven Pollinator Conservation**  
 2.18 **Strategies**

2.19 \$520,000 the second year is from the trust  
 2.20 fund to the Board of Regents of the University  
 2.21 of Minnesota to improve understanding of the  
 2.22 relationships and interactions between native  
 2.23 bee pollinators and rare and declining plant  
 2.24 species and to determine optimal placement  
 2.25 and species plantings for pollinator habitat  
 2.26 in order to develop guidelines for planning,  
 2.27 designing, and planting pollinator habitat.

2.28 This appropriation is available until June  
 2.29 30, 2019, by which time the project must be  
 2.30 completed and final products delivered.

2.31 **(b) Native Bee Surveys in Minnesota Prairie**  
 2.32 **and Forest Habitats**

2.33 \$600,000 the second year is from the trust  
 2.34 fund to the commissioner of natural resources  
 2.35 to continue to assess the current status and

3.1 distribution of native bee pollinators in  
3.2 Minnesota by expanding surveys into the  
3.3 prairie-forest border region and facilitating  
3.4 interagency collaboration and public  
3.5 outreach on pollinators. This appropriation  
3.6 is available until June 30, 2019, by which  
3.7 time the project must be completed and final  
3.8 products delivered.

3.9 **(c) Prairie Butterfly Conservation, Research,**  
3.10 **and Breeding - Phase II**

3.11 \$750,000 the second year is from the trust  
3.12 fund. Of this amount, \$421,000 is to the  
3.13 Minnesota Zoological Garden and \$329,000  
3.14 is to the commissioner of natural resources in  
3.15 collaboration with the United States Fish and  
3.16 Wildlife Service to continue efforts to prevent  
3.17 the extinction of imperiled native Minnesota  
3.18 butterfly species through breeding, research,  
3.19 field surveys, and potential reintroduction.  
3.20 This appropriation is available until June  
3.21 30, 2019, by which time the project must be  
3.22 completed and final products delivered.

3.23 **(d) Statewide Monitoring Network for**  
3.24 **Changing Habitats in Minnesota**

3.25 \$500,000 the second year is from the  
3.26 trust fund to the commissioner of natural  
3.27 resources to develop a consolidated statewide  
3.28 network of permanent habitat monitoring  
3.29 sites in prairies, forests, and wetlands to  
3.30 help guide and prioritize habitat protection  
3.31 and management decisions in response to  
3.32 environmental change. The design and  
3.33 testing methodologies of monitoring plots  
3.34 must address the status of pollinators and  
3.35 pollination. This appropriation is available  
3.36 until June 30, 2019, by which time the

4.1 project must be completed and final products  
4.2 delivered.

4.3 **(e) Completing National Wetland Inventory**  
4.4 **Update for Minnesota**

4.5 \$1,500,000 the second year is from the trust  
4.6 fund to the commissioner of natural resources  
4.7 to complete the update and enhancement  
4.8 of wetland inventory maps for counties in  
4.9 central and northwestern Minnesota. This  
4.10 appropriation is available until June 30,  
4.11 2019, by which time the project must be  
4.12 completed and final products delivered.

4.13 **(f) Minnesota Vegetative Buffer Assessment**  
4.14 **and Prioritization to Protect Water Quality**

4.15 \$170,000 the second year is from the  
4.16 trust fund to the Board of Regents of  
4.17 the University of Minnesota to develop  
4.18 a geographic information system (GIS)  
4.19 assessment of riparian vegetative buffers  
4.20 in 70 agricultural counties in Minnesota  
4.21 using aerial imagery and light detection and  
4.22 ranging (LiDAR) terrain analysis in order to  
4.23 protect water quality.

4.24 **(g) Assessment Tool for Understanding**  
4.25 **Vegetation Growth Impacts on Groundwater**  
4.26 **Recharge**

4.27 \$212,000 the second year is from the  
4.28 trust fund to the Board of Regents of the  
4.29 University of Minnesota to develop a  
4.30 statewide assessment tool to help understand  
4.31 the relationship between vegetation growth  
4.32 and impacts on groundwater recharge  
4.33 under changing land use and climate. This  
4.34 appropriation is available until June 30,  
4.35 2019, by which time the project must be  
4.36 completed and final products delivered.

5.1 **(h) Sentinel Lakes Monitoring and Data**  
5.2 **Synthesis – Phase III**

5.3 \$401,000 the second year is from the trust  
5.4 fund to the commissioner of natural resources  
5.5 for the third and final phase of a monitoring  
5.6 and multidisciplinary research effort on  
5.7 25 sentinel lakes in Minnesota, which will  
5.8 integrate and synthesize previously collected  
5.9 data to enhance understanding of how  
5.10 lakes respond to large-scale environmental  
5.11 stressors and provide for improved ability  
5.12 to predict and respond to lake changes  
5.13 for water and fisheries management. This  
5.14 appropriation is available until June 30,  
5.15 2019, by which time the project must be  
5.16 completed and final products delivered.

5.17 **(i) State Spring Inventory for Resource**  
5.18 **Management and Protection - Phase II**

5.19 \$370,000 the second year is from the trust  
5.20 fund to the commissioner of natural resources  
5.21 to continue a systematic inventory of springs  
5.22 statewide to provide fundamental data  
5.23 needed to maintain spring flows and protect  
5.24 groundwater-dependent resources. Increased  
5.25 outreach to the public and other entities must  
5.26 be conducted to assist in the identification,  
5.27 documentation, and publication of spring  
5.28 locations. This appropriation is available  
5.29 until June 30, 2019, by which time the  
5.30 project must be completed and final products  
5.31 delivered.

5.32 **(j) Enhancing Understanding of Minnesota**  
5.33 **River Aquatic Ecosystem**

5.34 \$500,000 the second year is from the trust  
5.35 fund to the commissioner of natural resources  
5.36 to accelerate collection of baseline data to

6.1 enhance understanding of the Minnesota  
6.2 River ecosystem, measure future impacts  
6.3 of changing climate and landscapes on  
6.4 the aquatic ecosystem, and guide future  
6.5 management efforts. This appropriation  
6.6 is available until June 30, 2019, by which  
6.7 time the project must be completed and final  
6.8 products delivered.

6.9 **(k) Improving Brook Trout Stream Habitat**  
6.10 **Through Beaver Management**

6.11 \$225,000 the second year is from the  
6.12 trust fund to the Board of Trustees of the  
6.13 Minnesota State Colleges and Universities  
6.14 system for Bemidji State University to  
6.15 quantify how beaver activity influences  
6.16 habitat quality in streams for brook trout in  
6.17 northeastern Minnesota in order to improve  
6.18 current and future management practices.  
6.19 This appropriation is available until June  
6.20 30, 2019, by which time the project must be  
6.21 completed and final products delivered.

6.22 **(l) Evaluate Temperature, Streamflow, and**  
6.23 **Hydrogeology Impact on Brook Trout Habitat**

6.24 \$115,000 the second year is from the  
6.25 trust fund to the Board of Regents of the  
6.26 University of Minnesota for the Minnesota  
6.27 Geological Survey to evaluate links between  
6.28 southeastern Minnesota stream temperatures,  
6.29 trout habitat, and bedrock hydrogeology to  
6.30 improve trout stream management. This  
6.31 appropriation is available until June 30,  
6.32 2019, by which time the project must be  
6.33 completed and final products delivered.

6.34 **(m) Restoration of Elk to Northeastern**  
6.35 **Minnesota**

7.1 \$300,000 the second year is from the  
 7.2 trust fund to the Board of Regents of the  
 7.3 University of Minnesota in cooperation with  
 7.4 the Fond du Lac Band and Rocky Mountain  
 7.5 Elk Foundation to determine the habitat  
 7.6 suitability and levels of public support for  
 7.7 restoring elk to northeastern Minnesota.

7.8 This appropriation is available until June  
 7.9 30, 2019, by which time the project must be  
 7.10 completed and final products delivered.

7.11 **(n) Game and Nongame Bird Pesticide**  
 7.12 **Exposure**

7.13 \$349,000 the second year is from the trust  
 7.14 fund to the Board of Regents of the University  
 7.15 of Minnesota to evaluate the potential risk  
 7.16 to game and nongame birds from exposure  
 7.17 to neonicotinoid-treated agricultural seeds.

7.18 This appropriation is available until June  
 7.19 30, 2019, by which time the project must be  
 7.20 completed and final products delivered.

7.21 **(o) Evaluating Insecticide Exposure Risk for**  
 7.22 **Grassland Wildlife on Public Lands**

7.23 \$250,000 the second year is from the trust  
 7.24 fund to the commissioner of natural resources  
 7.25 to evaluate exposure risks of grassland  
 7.26 wildlife to soybean aphid insecticides, to  
 7.27 guide grassland management in farmland  
 7.28 regions of Minnesota for the protection of  
 7.29 birds, beneficial insects, and other grassland  
 7.30 wildlife. This appropriation is available until  
 7.31 June 30, 2019, by which time the project must  
 7.32 be completed and final products delivered.

7.33 **(p) Development of Innovative Cost-Saving**  
 7.34 **Methodology for Forest Inventory**

7.35 \$1,000,000 the second year is from the  
 7.36 trust fund to the commissioner of natural

8.1 resources to develop and pilot a new and more  
8.2 cost-effective methodology for an enhanced  
8.3 stand-based forest inventory, with the goal  
8.4 of extending the methodology statewide.

8.5 This appropriation is available until June  
8.6 30, 2019, by which time the project must be  
8.7 completed and final products delivered.

8.8 **(q) Evaluation of Tree Retention Guidelines**  
8.9 **Pertaining to Wildlife**

8.10 \$232,000 the second year is from the  
8.11 trust fund to the Board of Regents of the  
8.12 University of Minnesota for the Natural  
8.13 Resources Research Institute in Duluth to  
8.14 assess the effectiveness of the Minnesota  
8.15 Forest Resources Council tree retention  
8.16 guidelines in sustaining Minnesota's wildlife  
8.17 populations, by quantifying and evaluating  
8.18 the impacts on birds, small mammals, and  
8.19 amphibian diversity. This appropriation  
8.20 is available until June 30, 2019, by which  
8.21 time the project must be completed and final  
8.22 products delivered.

8.23 **(r) Determine Impacts on Wildlife From**  
8.24 **Emerald Ash Borer Infection of Black Ash**  
8.25 **Forests**

8.26 \$334,000 the second year is from the  
8.27 trust fund to the Board of Regents of the  
8.28 University of Minnesota for the Natural  
8.29 Resources Research Institute in Duluth  
8.30 to assess impacts of emerald ash borer  
8.31 and adaptive management on wildlife  
8.32 diversity in black ash forests and to develop  
8.33 recommendations to mitigate wildlife  
8.34 impacts. This appropriation is available until  
8.35 June 30, 2019, by which time the project must  
8.36 be completed and final products delivered.

9.1 Subd. 4. Water Resources -0- 8,349,000

9.2 (a) Tracking and Preventing Harmful Algal  
9.3 Blooms

9.4 \$500,000 the second year is from the trust  
9.5 fund to the Science Museum of Minnesota  
9.6 for the St. Croix Watershed Research Station  
9.7 to identify species composition and timing of  
9.8 harmful algal blooms, understand the causes  
9.9 of bloom development in individual lakes,  
9.10 and determine how nutrients and climate  
9.11 interact to increase harmful algae outbreaks.

9.12 This work must be done in cooperation  
9.13 with the University of Minnesota and the  
9.14 Minnesota Pollution Control Agency. This  
9.15 appropriation is available until June 30,  
9.16 2019, by which time the project must be  
9.17 completed and final products delivered.

9.18 (b) Assessing the Increasing Harmful Algal  
9.19 Blooms in Minnesota Lakes

9.20 \$270,000 the second year is from the trust  
9.21 fund to the Board of Regents of the University  
9.22 of Minnesota for the Saint Anthony Falls  
9.23 Laboratory to investigate lake processes  
9.24 and meteorological conditions triggering  
9.25 algal blooms and toxin production, develop  
9.26 models for tracking blooms, and provide  
9.27 outreach on the prediction, detection, and  
9.28 impacts of mitigation of algal bloom events.

9.29 This work must be done in cooperation with  
9.30 the St. Croix Watershed Research Station  
9.31 of the Science Museum of Minnesota and  
9.32 the Minnesota Pollution Control Agency.  
9.33 This appropriation is available until June  
9.34 30, 2019, by which time the project must be  
9.35 completed and final products delivered.

10.1 **(c) Restoring Native Mussels in Streams and**  
10.2 **Lakes**

10.3 \$600,000 the second year is from the  
10.4 trust fund to the commissioner of natural  
10.5 resources in cooperation with the Minnesota  
10.6 Zoological Garden for a statewide mussel  
10.7 program to rear, restore, and re-establish  
10.8 native mussel species in streams and rivers.

10.9 This appropriation is available until June  
10.10 30, 2019, by which time the project must be  
10.11 completed and final products delivered.

10.12 **(d) Assessing Techniques for Eliminating**  
10.13 **Contaminants to Protect Native Fish and**  
10.14 **Mussels**

10.15 \$287,000 the second year is from the  
10.16 trust fund to the commissioner of natural  
10.17 resources for an agreement with the  
10.18 University of St. Thomas to evaluate the  
10.19 use of ultraviolet treatment of wastewater  
10.20 to remove certain commonly detected  
10.21 wastewater contaminants, in order to reduce  
10.22 the contaminants' toxicity to native fish and  
10.23 mussels. This appropriation is available until  
10.24 June 30, 2019, by which time the project must  
10.25 be completed and final products delivered.

10.26 **(e) Assessing Neonicotinoid Insecticide Effects**  
10.27 **on Aquatic and Soil Communities**

10.28 \$400,000 the second year is from the trust  
10.29 fund to the Board of Regents of the University  
10.30 of Minnesota to identify neonicotinoid  
10.31 insecticide breakdown components produced  
10.32 in water and plant leaves and assess their  
10.33 toxicity to soil and aquatic species and related  
10.34 biotic communities. This appropriation is  
10.35 available until June 30, 2019, by which time

11.1 the project must be completed and final  
 11.2 products delivered.

11.3 **(f) Bacterial Assessment of Groundwater**  
 11.4 **Supplies Used for Drinking Water**

11.5 \$299,000 the second year is from the  
 11.6 trust fund to the Board of Regents of the  
 11.7 University of Minnesota to characterize and  
 11.8 analyze bacterial communities in Minnesota  
 11.9 groundwater used as drinking water supplies  
 11.10 and link the microbiological data to other  
 11.11 water quality indicators for drinking water  
 11.12 supply safety. This appropriation is available  
 11.13 until June 30, 2019, by which time the  
 11.14 project must be completed and final products  
 11.15 delivered.

11.16 **(g) Understanding Bedrock Fracture Flow to**  
 11.17 **Improve Groundwater Quality**

11.18 \$183,000 the second year is from the  
 11.19 trust fund to the Board of Regents of the  
 11.20 University of Minnesota for the Minnesota  
 11.21 Geological Survey to use new techniques of  
 11.22 borehole testing and rock fracture mapping in  
 11.23 the Twin Cities metropolitan area to achieve  
 11.24 a better understanding of groundwater  
 11.25 flow through fractured bedrock, in order to  
 11.26 improve groundwater management. This  
 11.27 appropriation is available until June 30,  
 11.28 2019, by which time the project must be  
 11.29 completed and final products delivered.

11.30 **(h) Protection of State's Confined Drinking**  
 11.31 **Water Aquifers - Phase II**

11.32 \$433,000 the second year is from the  
 11.33 trust fund to the commissioner of natural  
 11.34 resources for an agreement with the United  
 11.35 States Geological Survey to continue to test  
 11.36 methods of defining properties of confined

12.1 drinking water aquifers, in order to improve  
12.2 water management. This appropriation is  
12.3 not subject to Minnesota Statutes, section  
12.4 116P.10. This appropriation is available until  
12.5 June 30, 2019, by which time the project must  
12.6 be completed and final products delivered.

12.7 **(i) Techniques for Water Storage Estimates in**  
12.8 **Central Minnesota**

12.9 \$250,000 the second year is from the  
12.10 trust fund to the Board of Regents of the  
12.11 University of Minnesota to improve water  
12.12 storage estimates in groundwater, soil  
12.13 moisture, streams, lakes, and wetlands  
12.14 through integration of satellite monitoring  
12.15 and ground-based measurements in central  
12.16 Minnesota. This appropriation is available  
12.17 until June 30, 2019, by which time the  
12.18 project must be completed and final products  
12.19 delivered.

12.20 **(j) Assessment of Surface Water Quality with**  
12.21 **Satellite Sensors**

12.22 \$345,000 the second year is from the trust  
12.23 fund to the Board of Regents of the University  
12.24 of Minnesota for a statewide assessment of  
12.25 water quality using new satellite sensors  
12.26 for high frequency measurement of major  
12.27 water quality indicators in lakes and rivers.  
12.28 This appropriation is available until June  
12.29 30, 2019, by which time the project must be  
12.30 completed and final products delivered.

12.31 **(k) Development of Innovative Sensor**  
12.32 **Technologies for Water Monitoring**

12.33 \$509,000 the second year is from the  
12.34 trust fund to the Board of Regents of  
12.35 the University of Minnesota to develop  
12.36 inexpensive and efficient sensitive sensors

13.1 and wireless sensor networks for continuous  
13.2 monitoring of contaminants in lakes and  
13.3 ivers in Minnesota. This appropriation  
13.4 is subject to Minnesota Statutes, section  
13.5 116P.10. This appropriation is available until  
13.6 June 30, 2019, by which time the project must  
13.7 be completed and final products delivered.

13.8 **(l) Wastewater Treatment Process**  
13.9 **Improvements**

13.10 \$398,000 the second year is from the trust  
13.11 fund to the Board of Regents of the University  
13.12 of Minnesota to characterize and quantify  
13.13 the nutrient-removing microorganisms used  
13.14 for municipal wastewater treatment, in order  
13.15 to improve the process used to reduce total  
13.16 nitrogen discharge. This appropriation is  
13.17 available until June 30, 2019, by which time  
13.18 the project must be completed and final  
13.19 products delivered.

13.20 **(m) Membrane-Based Process for**  
13.21 **Decentralized Drinking Water Production**

13.22 \$191,000 the second year is from the trust  
13.23 fund to the Board of Regents of the University  
13.24 of Minnesota to develop a low-energy use,  
13.25 membrane-based treatment technology  
13.26 to produce drinking water locally from  
13.27 surface waters by removing heavy metals  
13.28 and contaminants of emerging concern,  
13.29 including pesticides and pharmaceuticals.  
13.30 This appropriation is subject to Minnesota  
13.31 Statutes, section 116P.10. This appropriation  
13.32 is available until June 30, 2019, by which  
13.33 time the project must be completed and final  
13.34 products delivered.

13.35 **(n) Analyzing Alternatives for Municipal**  
13.36 **Wastewater Treatment**

14.1 \$180,000 the second year is from the trust  
14.2 fund to the commissioner of the Minnesota  
14.3 Pollution Control Agency to analyze  
14.4 alternatives for improved treatment of  
14.5 sulfate and salty parameters at municipal  
14.6 wastewater plants to inform the development  
14.7 and implementation of wild rice, sulfate,  
14.8 and other water quality standards. This  
14.9 appropriation is available until June 30,  
14.10 2019, by which time the project must be  
14.11 completed and final products delivered.

14.12 **(o) Understanding Impacts of Salt Usage on**  
14.13 **Minnesota Lakes, Rivers, and Groundwater**

14.14 \$497,000 the second year is from the  
14.15 trust fund to the Board of Regents of  
14.16 the University of Minnesota to quantify  
14.17 the current water-softening salt loads in  
14.18 Minnesota lakes, rivers, and groundwater,  
14.19 assess alternative water-softening materials  
14.20 and methods, and quantify the transport of  
14.21 de-icing and water-softening salt through the  
14.22 soil. This appropriation is available until  
14.23 June 30, 2019, by which time the project must  
14.24 be completed and final products delivered.

14.25 **(p) Microbes for Salt and Metal Removal**

14.26 \$596,000 the second year is from the  
14.27 trust fund to the Board of Regents of the  
14.28 University of Minnesota to continue to  
14.29 research the potential of recently discovered  
14.30 microbes from Soudan Iron Mine in  
14.31 northern Minnesota for removing salts and  
14.32 metals from groundwater and surface water  
14.33 resources. This appropriation is subject to  
14.34 Minnesota Statutes, section 116P.10. This  
14.35 appropriation is available until June 30,

15.1 2019, by which time the project must be  
15.2 completed and final products delivered.

15.3 **(q) Engineered Biofilter for Sulfate and Metal**  
15.4 **Removal from Mine Waters**

15.5 \$440,000 the second year is from the  
15.6 trust fund to the Board of Regents of  
15.7 the University of Minnesota to develop  
15.8 an efficient, low-cost, biomass-derived  
15.9 adsorbent material for use in bioactive filters  
15.10 able to remove sulfate and metals from  
15.11 mining-impacted waters. This appropriation  
15.12 is subject to Minnesota Statutes, section  
15.13 116P.10. This appropriation is available until  
15.14 June 30, 2019, by which time the project must  
15.15 be completed and final products delivered.

15.16 **(r) Developing Biosponge Technology for**  
15.17 **Removal of Nitrates from Minnesota Waters**

15.18 \$198,000 the second year is from the  
15.19 trust fund to the Board of Regents of the  
15.20 University of Minnesota to adapt and test  
15.21 an inexpensive biosponge technology for  
15.22 its effectiveness at removing nitrates from  
15.23 drinking water. This appropriation is subject  
15.24 to Minnesota Statutes, section 116P.10. This  
15.25 appropriation is available until June 30,  
15.26 2019, by which time the project must be  
15.27 completed and final products delivered.

15.28 **(s) Morrison County Performance Drainage**  
15.29 **and Hydrology Management**

15.30 \$209,000 the second year is from the trust  
15.31 fund to the commissioner of natural resources  
15.32 for an agreement with the Morrison Soil  
15.33 and Water Conservation District to conduct  
15.34 an assessment of drainage infrastructure,  
15.35 in order to develop hydrology restoration  
15.36 priorities and a countywide performance

16.1 drainage ordinance to address land  
16.2 use-change impacts to the hydrogeology.  
16.3 This appropriation is available until June  
16.4 30, 2019, by which time the project must be  
16.5 completed and final products delivered.

16.6 **(t) Agricultural and Urban Runoff Water**  
16.7 **Quality Treatment Analysis - Phase II**

16.8 \$110,000 the second year is from the  
16.9 trust fund to the Board of Water and Soil  
16.10 Resources for an agreement with the Blue  
16.11 Earth County Drainage Authority to continue  
16.12 monitoring a model demonstration for  
16.13 storage and treatment options in drainage  
16.14 systems designed to improve agricultural and  
16.15 urban water quality by reducing soil erosion,  
16.16 peak water flows, and nutrient loading. This  
16.17 appropriation is available until June 30,  
16.18 2021, by which time the project must be  
16.19 completed and final products delivered.

16.20 **(u) Surface Water Bacterial Treatment System**  
16.21 **Pilot Project**

16.22 \$500,000 the second year is from the trust  
16.23 fund to the commissioner of natural resources  
16.24 for an agreement with Vadnais Lake Area  
16.25 Water Management Organization to reduce  
16.26 bacteria and nutrient loads to Vadnais  
16.27 Lake, a drinking water supply reservoir,  
16.28 through implementation and evaluation  
16.29 of a subsurface constructed wetland as a  
16.30 best management practice for potential  
16.31 statewide use. The Vadnais Lake Area Water  
16.32 Management Organization must consider  
16.33 contracting with the University of Minnesota  
16.34 Department of Civil, Environmental,  
16.35 and Geo-Engineering to evaluate the  
16.36 effectiveness of the pilot treatment system

17.1 so that it maximizes benefits and can be  
17.2 replicated elsewhere. This appropriation  
17.3 is available until June 30, 2021, by which  
17.4 time the project must be completed and final  
17.5 products delivered.

17.6 **(v) Assessing Effectiveness of Wetland**  
17.7 **Restorations for Improved Water Quality**

17.8 \$420,000 the second year is from the trust  
17.9 fund to the Board of Regents of the University  
17.10 of Minnesota to quantify the environmental  
17.11 benefits of sediment removal and native  
17.12 plant communities in wetland restorations by  
17.13 measuring resulting reductions in nitrogen  
17.14 and phosphorus delivery to groundwater and  
17.15 surface water. This appropriation is available  
17.16 until June 30, 2019, by which time the  
17.17 project must be completed and final products  
17.18 delivered.

17.19 **(w) Assessing Climate Change Effects on**  
17.20 **Release of Mercury and Sulfur into Aquatic**  
17.21 **Ecosystems**

17.22 \$300,000 the second year is from the  
17.23 trust fund to the Board of Regents of the  
17.24 University of Minnesota to determine the  
17.25 effects of increased temperatures on the  
17.26 release of mercury and sulfur from Minnesota  
17.27 peatlands in order to help predict impacts  
17.28 on aquatic ecosystems and fish health. This  
17.29 appropriation is available until June 30,  
17.30 2019, by which time the project must be  
17.31 completed and final products delivered.

17.32 **(x) Integrated Targeted Watershed Planning**  
17.33 **Tools with Citizen Involvement**

17.34 \$169,000 the second year is from the  
17.35 trust fund to the Board of Trustees of the  
17.36 Minnesota State Colleges and Universities

18.1 system for the Water Resources Center  
 18.2 at Minnesota State University, Mankato,  
 18.3 to use geographic information system  
 18.4 (GIS) prioritization and modeling tools  
 18.5 to develop pollution reduction strategies  
 18.6 in five priority subwatersheds in the Le  
 18.7 Sueur River watershed and to promote  
 18.8 implementation of the reduction strategies  
 18.9 through citizen involvement and outreach.  
 18.10 This appropriation is available until June  
 18.11 30, 2019, by which time the project must be  
 18.12 completed and final products delivered.

18.13 **(y) Roseau Lake Watershed Targeted Water**  
 18.14 **Quality Improvement**

18.15 \$65,000 the second year is from the  
 18.16 trust fund to the commissioner of natural  
 18.17 resources to develop targeted water quality  
 18.18 improvements for the Roseau Lake watershed  
 18.19 by coordinating with partner agencies to  
 18.20 identify the top priority field scale best  
 18.21 management and conservation practices to  
 18.22 implement in the region.

18.23 **Subd. 5. Environmental Education** -0- 2,562,000

18.24 **(a) Minnesota Conservation Apprentice**  
 18.25 **Academy**

18.26 \$433,000 the second year is from the  
 18.27 trust fund to the Board of Water and Soil  
 18.28 Resources in cooperation with Conservation  
 18.29 Corps Minnesota and Iowa for the final  
 18.30 phase of a program to train and mentor future  
 18.31 conservation professionals by providing  
 18.32 apprenticeship service opportunities with  
 18.33 local soil and water conservation districts in  
 18.34 Minnesota. This appropriation is available  
 18.35 until June 30, 2019, by which time the

19.1 project must be completed and final products  
19.2 delivered.

19.3 **(b) School Forests Outdoor Classrooms**

19.4 \$440,000 the second year is from the trust  
19.5 fund to the commissioner of natural resources  
19.6 in cooperation with Conservation Corps  
19.7 Minnesota and Iowa to renovate and restore  
19.8 60 school forests and train students, teachers,  
19.9 school district facility staff, and community  
19.10 volunteers to be long-term stewards of the  
19.11 school forests and provide education and  
19.12 service learning experiences at school forest  
19.13 sites. This appropriation is available until  
19.14 June 30, 2019, by which time the project must  
19.15 be completed and final products delivered.

19.16 **(c) Youth-Led Sustainability Projects in 50**  
19.17 **Minnesota Communities - Phase III**

19.18 \$400,000 the second year is from the  
19.19 trust fund to the commissioner of natural  
19.20 resources for an agreement with Prairie  
19.21 Woods Environmental Learning Center to  
19.22 expand the Youth Energy Summit (YES!)  
19.23 program statewide to complete more than  
19.24 200 new youth-led climate change mitigation  
19.25 and adaptation projects in over 50 Minnesota  
19.26 communities.

19.27 **(d) New Prairie Sportsman Statewide**  
19.28 **Broadcast Video Project**

19.29 \$300,000 the second year is from the  
19.30 trust fund to the commissioner of natural  
19.31 resources for an agreement with Pioneer  
19.32 Public Television to provide outreach on  
19.33 outdoor recreation, conservation, and natural  
19.34 resource issues, including water quality,  
19.35 wildlife habitat, and invasive species,

20.1 through a series of interrelated public  
20.2 forums, educational and training videos, and  
20.3 statewide broadcast television programs.

20.4 This appropriation is available until June  
20.5 30, 2019, by which time the project must be  
20.6 completed and final products delivered.

20.7 **(e) Workshops and Outreach for Nontoxic**  
20.8 **Ammunition Alternatives**

20.9 \$133,000 the second year is from the  
20.10 trust fund to the Board of Regents of the  
20.11 University of Minnesota for the Raptor  
20.12 Center, in cooperation with the Department  
20.13 of Natural Resources and other conservation  
20.14 partners, to provide hunters with outreach  
20.15 and workshops on alternatives to lead  
20.16 hunting ammunition, including copper  
20.17 ammunition as an alternative, and to promote  
20.18 voluntary selection of nontoxic ammunition  
20.19 in order to protect raptors and other wildlife  
20.20 in Minnesota from accidental lead poisoning  
20.21 caused by ingestion of ammunition fragments  
20.22 left in the field.

20.23 **(f) Wildlife and Habitat Conservation**  
20.24 **Education for Southwest Minnesota High**  
20.25 **Schools**

20.26 \$147,000 the second year is from the trust  
20.27 fund to the Minnesota Zoological Garden  
20.28 to engage high school students in critical  
20.29 prairie wildlife and habitat conservation  
20.30 projects by using the zoo's unique animal  
20.31 collections and state-of-the-art technology to  
20.32 deliver hands-on learning in 12 southwestern  
20.33 Minnesota high schools.

20.34 **(g) Standards-Based Dakota Indian Land**  
20.35 **Stewardship Education**

21.1 \$197,000 the second year is from the trust  
 21.2 fund to the commissioner of natural resources  
 21.3 for an agreement with Dakota Wicohan  
 21.4 to enhance the capacity of approximately  
 21.5 1,250 students to be stewards of the land in  
 21.6 Minnesota by learning about Dakota Indian  
 21.7 values and environmental principles through  
 21.8 a standards-based experiential multimedia  
 21.9 curriculum. This appropriation is available  
 21.10 until June 30, 2019, by which time the  
 21.11 project must be completed and final products  
 21.12 delivered.

21.13 **(h) Wolf Management Education in the**  
 21.14 **Classroom - Phase II**

21.15 \$240,000 the second year is from the trust  
 21.16 fund to the commissioner of natural resources  
 21.17 for an agreement with the International  
 21.18 Wolf Center to expand the Wolves at Our  
 21.19 Door classroom education program to  
 21.20 assist students in understanding wolves and  
 21.21 associated management issues.

21.22 **(i) Master Water Steward Program Expansion**

21.23 \$116,000 the second year is from the trust  
 21.24 fund to the commissioner of natural resources  
 21.25 for an agreement with the Freshwater Society  
 21.26 to train community volunteers as master  
 21.27 water stewards who will work with  
 21.28 neighborhoods to install water management  
 21.29 projects that preserve and restore water  
 21.30 quality. This appropriation is available until  
 21.31 June 30, 2019, by which time the project must  
 21.32 be completed and final products delivered.

21.33 **(j) Promoting Water Quality Stewardship**  
 21.34 **through Student Mentoring and River**  
 21.35 **Monitoring**

22.1 \$39,000 the second year is from the trust  
 22.2 fund to the commissioner of natural resources  
 22.3 for an agreement with Southwest Minnesota  
 22.4 State University to partner with area schools  
 22.5 to deliver inquiry-based, hands-on learning  
 22.6 and mentoring on water quality stewardship  
 22.7 between university agriculture students and  
 22.8 high school and middle school students.

22.9 **(k) Analysis of Thermally Modified Wood**  
 22.10 **Nesting Boxes for Birds**

22.11 \$117,000 the second year is from the  
 22.12 trust fund to the Board of Regents of the  
 22.13 University of Minnesota for the Natural  
 22.14 Resources Research Institute in Duluth to  
 22.15 verify the performance and market readiness  
 22.16 of bird nest boxes made from thermally  
 22.17 modified Minnesota ash wood, by placing the  
 22.18 nest boxes in nature centers, environmental  
 22.19 learning centers, and school forests statewide  
 22.20 for testing, collecting pertinent bird  
 22.21 conservation data, and delivering related  
 22.22 environmental education.

22.23 **Subd. 6. Aquatic and Terrestrial Invasive**  
 22.24 **Species**

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5,860,000

22.25 **(a) Minnesota Invasive Terrestrial Plants and**  
 22.26 **Pests Center - Phase III**

22.27 \$3,750,000 the second year is from the  
 22.28 trust fund to the Board of Regents of the  
 22.29 University of Minnesota for the Invasive  
 22.30 Terrestrial Plants and Pests Center to conduct  
 22.31 research to prevent, minimize, and mitigate  
 22.32 the threats and impacts posed by terrestrial  
 22.33 invasive plants, pathogens, and pests to  
 22.34 the state's prairies, forests, wetlands, and  
 22.35 agricultural resources. This appropriation  
 22.36 is available until June 30, 2023, by which

23.1 time the project must be completed and final  
 23.2 products delivered.

23.3 **(b) Developing Membrane Filtration System to**  
 23.4 **Treat Lake Superior Ballast Water**

23.5 \$151,000 the second year is from the trust  
 23.6 fund to the Board of Regents of the University  
 23.7 of Minnesota to develop a filtration system  
 23.8 utilizing bioactive membrane technologies  
 23.9 for use in treating Lake Superior ballast  
 23.10 water to remove at least 90 percent of  
 23.11 suspended pathogens, invasive species, and  
 23.12 contaminants. This appropriation is subject  
 23.13 to Minnesota Statutes, section 116P.10. This  
 23.14 appropriation is available until June 30,  
 23.15 2019, by which time the project must be  
 23.16 completed and final products delivered.

23.17 **(c) Advancing Microbial Invasive Species**  
 23.18 **Monitoring from Ballast Discharge**

23.19 \$368,000 the second year is from the  
 23.20 trust fund to the Board of Regents of  
 23.21 the University of Minnesota to identify  
 23.22 bacteria in ship ballast water and St. Louis  
 23.23 River estuary sediments, assess the risks  
 23.24 posed by invasive bacteria, and evaluate  
 23.25 treatment techniques for effectiveness at  
 23.26 removing the bacteria from ballast water.  
 23.27 This appropriation is available until June  
 23.28 30, 2019, by which time the project must be  
 23.29 completed and final products delivered.

23.30 **(d) Biological Control of White Nose Syndrome**  
 23.31 **in Bats - Phase II**

23.32 \$452,000 the second year is from the  
 23.33 trust fund to the Board of Regents of the  
 23.34 University of Minnesota to continue research  
 23.35 to identify, develop, and optimize biocontrol  
 23.36 agents for white nose syndrome in bats by

24.1 evaluating the biocontrol effectiveness of  
 24.2 microbes collected at additional hibernacula  
 24.3 throughout the state and conducting baseline  
 24.4 characterization of the total bat microbiomes.

24.5 This appropriation is available until June  
 24.6 30, 2019, by which time the project must be  
 24.7 completed and final products delivered.

24.8 **(e) Elimination of Target Invasive Plant Species**  
 24.9 **- Phase II**

24.10 \$750,000 the second year is from the trust  
 24.11 fund. Of this amount, \$511,000 is to the  
 24.12 commissioner of agriculture and \$239,000  
 24.13 is to the Board of Regents of the University  
 24.14 of Minnesota to train volunteers and  
 24.15 professionals to find, control, and monitor  
 24.16 targeted newly emergent invasive plant  
 24.17 species. This appropriation is available until  
 24.18 June 30, 2019, by which time the project must  
 24.19 be completed and final products delivered.

24.20 **(f) Dutch Elm Disease Resistance - Phase II**

24.21 \$200,000 the second year is from the trust  
 24.22 fund to the Board of Regents of the University  
 24.23 of Minnesota to continue to identify and  
 24.24 evaluate native Minnesota elms that are  
 24.25 resistant to Dutch elm disease and begin  
 24.26 propagating disease-resistant specimens  
 24.27 for field trial testing. This appropriation  
 24.28 is available until June 30, 2019, by which  
 24.29 time the project must be completed and final  
 24.30 products delivered.

24.31 **(g) Invasive Carp Management Research in**  
 24.32 **Lake Nokomis Subwatershed**

24.33 \$189,000 the second year is from the  
 24.34 trust fund to the commissioner of natural  
 24.35 resources for an agreement with the

25.1 Minneapolis Park and Recreation Board to  
 25.2 apply current invasive carp management  
 25.3 research to the entire Lake Nokomis  
 25.4 subwatershed and provide demonstration  
 25.5 guidance for large-scale carp management.

25.6 This appropriation is available until June  
 25.7 30, 2020, by which time the project must be  
 25.8 completed and final products delivered.

25.9 **Subd. 7. Air Quality, Climate Change, and**  
 25.10 **Renewable Energy**

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3,889,000

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

25.12 \$388,000 the second year is from the  
 25.13 trust fund to the Board of Regents of  
 25.14 the University of Minnesota to develop  
 25.15 inexpensive, high-efficiency solar energy by  
 25.16 simple roll-to-roll advanced manufacturing  
 25.17 technology, using Perovskite, a new  
 25.18 photovoltaic material. This appropriation  
 25.19 is subject to Minnesota Statutes, section  
 25.20 116P.10. This appropriation is available until  
 25.21 June 30, 2019, by which time the project must  
 25.22 be completed and final products delivered.

25.23 **(b) Community Solar Garden Installation**

25.24 \$490,000 the second year is from the trust  
 25.25 fund to the commissioner of natural resources  
 25.26 for an agreement with Rural Renewable  
 25.27 Energy Alliance to install a 200-kilowatt  
 25.28 community solar garden to provide for  
 25.29 electrical distribution in Cass and Crow  
 25.30 Wing Counties, to assist households in the  
 25.31 Minnesota low-income housing energy  
 25.32 assistance program in meeting electrical  
 25.33 energy needs and serve as a model for  
 25.34 low-income energy assistance elsewhere in

26.1 the state. This appropriation is not subject to  
26.2 Minnesota Statutes, section 116P.10.

26.3 **(c) High-Resolution Climate Projections to Aid**  
26.4 **Local Planning and Implementation Efforts**

26.5 \$411,000 the second year is from the trust  
26.6 fund to the Board of Regents of the University  
26.7 of Minnesota to produce statewide localized  
26.8 climate model projections to be used for  
26.9 long-term planning and implementation of  
26.10 adaptation strategies for natural resources,  
26.11 infrastructure, and human health at the local  
26.12 level. This appropriation is available until  
26.13 June 30, 2019, by which time the project must  
26.14 be completed and final products delivered.

26.15 **(d) Geotargeted Distributed Clean Energy**  
26.16 **Initiative**

26.17 \$800,000 the second year is from the trust  
26.18 fund to the commissioner of natural resources  
26.19 for an agreement with the Center for Energy  
26.20 and Environment. Of this amount, up to  
26.21 \$600,000 is for analysis of community  
26.22 distributed clean energy investments as  
26.23 alternatives to utility transmission and  
26.24 distribution upgrade capital investments  
26.25 to meet forecasted electrical loads. Up  
26.26 to \$200,000 is to conduct pilot programs  
26.27 using energy efficiency and other distributed  
26.28 energy resources to achieve forecasted  
26.29 electric energy loads in communities and  
26.30 is contingent on a \$200,000 match of an  
26.31 equal or greater amount of nonstate money.  
26.32 This appropriation is available until June  
26.33 30, 2019, by which time the project must be  
26.34 completed and final products delivered.

26.35 **(e) Waste Heat Recovery with Efficient**  
26.36 **Thermoelectric Energy Generators**

27.1 \$400,000 the second year is from the  
27.2 trust fund to the Board of Regents of  
27.3 the University of Minnesota to develop  
27.4 thermoelectric energy generators using  
27.5 advanced, high-performance materials able  
27.6 to more efficiently capture waste heat and  
27.7 transform the heat into electricity. This  
27.8 appropriation is subject to Minnesota  
27.9 Statutes, section 116P.10. This appropriation  
27.10 is available until June 30, 2019, by which  
27.11 time the project must be completed and final  
27.12 products delivered.

27.13 **(f) Hydrogen Fuel from Wind-Produced**  
27.14 **Renewable Ammonia**

27.15 \$400,000 the second year is from the trust  
27.16 fund to the Board of Regents of the University  
27.17 of Minnesota to develop a technical solution  
27.18 for converting wind-produced ammonia to  
27.19 hydrogen through catalytic decomposition,  
27.20 for use in reducing emissions from diesel  
27.21 engines and powering fuel cell vehicles.  
27.22 This appropriation is subject to Minnesota  
27.23 Statutes, section 116P.10. This appropriation  
27.24 is available until June 30, 2019, by which  
27.25 time the project must be completed and final  
27.26 products delivered.

27.27 **(g) Utilization of Dairy Farm Wastewater for**  
27.28 **Sustainable Production**

27.29 \$500,000 the second year is from the trust  
27.30 fund to the Board of Regents of the University  
27.31 of Minnesota for the West Central Research  
27.32 and Outreach Center in Morris to develop and  
27.33 evaluate an integrated system that recycles  
27.34 and uses nutrients in dairy wastewater  
27.35 from feedlots and milk processing, thereby  
27.36 reducing nutrients from agricultural runoff,

28.1 and to provide outreach on adoption of new  
 28.2 technologies. This appropriation is subject  
 28.3 to Minnesota Statutes, section 116P.10. This  
 28.4 appropriation is available until June 30,  
 28.5 2019, by which time the project must be  
 28.6 completed and final products delivered.

28.7 **(h) Solar Energy Utilization for Minnesota**  
 28.8 **Swine Farms - Phase II**

28.9 \$500,000 the second year is from the trust  
 28.10 fund to the Board of Regents of the University  
 28.11 of Minnesota for the West Central Research  
 28.12 and Outreach Center in Morris to continue to  
 28.13 develop and evaluate the utilization of solar  
 28.14 photovoltaic systems at swine facilities to  
 28.15 improve energy and economic performance,  
 28.16 reduce fossil fuel usage and emissions, and  
 28.17 optimize water usage. This appropriation  
 28.18 is available until June 30, 2019, by which  
 28.19 time the project must be completed and final  
 28.20 products delivered.

28.21 **Subd. 8. Methods to Protect, Restore, and**  
 28.22 **Enhance Land, Water, and Habitat**

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4,515,000

28.23 **(a) Bee Pollinator Habitat Enhancement -**  
 28.24 **Phase II**

28.25 \$387,000 the second year is from the trust  
 28.26 fund to the Board of Regents of the University  
 28.27 of Minnesota to continue assessment of the  
 28.28 potential to supplement traditional turf grass  
 28.29 by providing critical floral plant resources  
 28.30 to enhance bee pollinator habitat. Plant  
 28.31 materials and seeds must follow the Board of  
 28.32 Water and Soil Resources' native vegetation  
 28.33 establishment and enhancement guidelines.  
 28.34 This appropriation is available until June  
 28.35 30, 2019, by which time the project must be  
 28.36 completed and final products delivered.

29.1 **(b) Measuring Pollen and Seed Dispersal for**  
29.2 **Prairie Fragment Connectivity**

29.3 \$556,000 the second year is from the  
29.4 trust fund to the Board of Regents of the  
29.5 University of Minnesota to determine  
29.6 habitat connectivity between prairie  
29.7 fragments by measuring plant movement  
29.8 by dispersal of pollen and seeds to improve  
29.9 prairie restoration implementation. This  
29.10 appropriation is available until June 30,  
29.11 2019, by which time the project must be  
29.12 completed and final products delivered.

29.13 **(c) Establishment of Permanent Habitat Strips**  
29.14 **Within Row Crops**

29.15 \$179,000 the second year is from the trust  
29.16 fund to the Science Museum of Minnesota  
29.17 for the St. Croix Watershed Research Station  
29.18 to research the viability of establishing  
29.19 prairie forbs and alfalfa as permanent cover  
29.20 strips in the bare soil between selected rows  
29.21 of corn and soybeans as potential pollinator,  
29.22 monarch, and gamebird habitat. Monitoring  
29.23 of the native plant strips must evaluate the  
29.24 effects of pesticides from adjacent crops on  
29.25 pollinators, including determining whether  
29.26 there is a reduction of pollinators that results  
29.27 in reduced setting of seeds on the native  
29.28 plants. This appropriation is available until  
29.29 June 30, 2019, by which time the project must  
29.30 be completed and final products delivered.

29.31 **(d) Evaluate Prescribed Burning Techniques to**  
29.32 **Improve Habitat Management for Brushland**  
29.33 **Species**

29.34 \$267,000 the second year is from the trust  
29.35 fund to the Board of Regents of the University  
29.36 of Minnesota to compare the effects on

30.1 brushland habitat of conducting prescribed  
30.2 burning in spring, summer, and fall to  
30.3 provide improved management guidelines  
30.4 for wildlife habitat. This appropriation is  
30.5 available until June 30, 2020, by which time  
30.6 the project must be completed and final  
30.7 products delivered.

30.8 **(e) Controlling Reed Canary Grass to**  
30.9 **Regenerate Floodplain Forest**

30.10 \$218,000 the second year is from the trust  
30.11 fund to the commissioner of natural resources  
30.12 for an agreement with the Minnesota state  
30.13 office of the National Audubon Society to  
30.14 determine the most effective regeneration  
30.15 methods for restoration of floodplain forests  
30.16 in southeast Minnesota impacted by invasive  
30.17 reed canary grass. This appropriation is  
30.18 available until June 30, 2019, by which time  
30.19 the project must be completed and final  
30.20 products delivered.

30.21 **(f) Forest Management for Mississippi River**  
30.22 **Drinking Water Protection**

30.23 \$300,000 the second year is from the trust  
30.24 fund to the commissioner of natural resources  
30.25 for an agreement with the Crow Wing Soil  
30.26 and Water Conservation District to pilot a  
30.27 water protection approach for the watershed  
30.28 through development of forest stewardship  
30.29 plans and targeted riparian forest restoration  
30.30 projects. Any expenditures from this  
30.31 appropriation spent on forest management  
30.32 plans or restoration must be for lands with  
30.33 a long-term contract commitment for forest  
30.34 conservation, and the restoration must follow  
30.35 the Board of Water and Soil Resources' native  
30.36 vegetation establishment and enhancement

31.1 guidelines. This appropriation is available  
31.2 until June 30, 2019, by which time the  
31.3 project must be completed and final products  
31.4 delivered.

31.5 **(g) Upland, Wetland, and Shoreline Restoration**  
31.6 **in Greater Metropolitan Area**

31.7 \$509,000 the second year is from the  
31.8 trust fund to the commissioner of natural  
31.9 resources for an agreement with Great River  
31.10 Greening to restore approximately 150 acres  
31.11 of forest, prairie, woodland, and wetland  
31.12 and 0.15 miles of shoreline throughout  
31.13 the greater Twin Cities metropolitan area,  
31.14 using volunteers, and to conduct restoration  
31.15 evaluation on previously restored parcels. A  
31.16 list of proposed restorations and evaluations  
31.17 must be provided as part of the required work  
31.18 plan. Plant and seed materials must follow  
31.19 the Board of Water and Soil Resources' native  
31.20 vegetation establishment and enhancement  
31.21 guidelines. This appropriation is available  
31.22 until June 30, 2019, by which time the  
31.23 project must be completed and final products  
31.24 delivered.

31.25 **(h) Bluffland Restoration and Monitoring in**  
31.26 **Winona**

31.27 \$99,000 the second year is from the trust fund  
31.28 to the Board of Trustees of the Minnesota  
31.29 State Colleges and Universities system  
31.30 for Winona State University to inventory,  
31.31 restore, and monitor the 40-acre Garvin  
31.32 Heights Natural Area in Winona and provide  
31.33 related public outreach and education. Plant  
31.34 and seed materials must follow the Board of  
31.35 Water and Soil Resources' native vegetation  
31.36 establishment and enhancement guidelines.

32.1 This appropriation is available until June  
 32.2 30, 2019, by which time the project must be  
 32.3 completed and final products delivered.

32.4 **(i) Champlin Mill Pond Shoreland Restoration**

32.5 \$2,000,000 the second year is from the  
 32.6 trust fund to the commissioner of natural  
 32.7 resources for an agreement with the city  
 32.8 of Champlin to restore the Champlin Mill  
 32.9 Pond shoreline and adjacent habitat. Plant  
 32.10 and seed materials must follow the Board of  
 32.11 Water and Soil Resources' native vegetation  
 32.12 establishment and enhancement guidelines.

32.13 This appropriation is available until June  
 32.14 30, 2019, by which time the project must be  
 32.15 completed and final products delivered.

32.16 **Subd. 9. Land Acquisition, Habitat, and**  
 32.17 **Recreation**

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12,624,000

32.18 **(a) State Parks and Trails Land Acquisition**

32.19 \$2,445,000 the second year is from the  
 32.20 trust fund to the commissioner of natural  
 32.21 resources to acquire approximately 150 acres  
 32.22 from willing sellers for authorized state  
 32.23 trails and critical parcels within the statutory  
 32.24 boundaries of state parks. Of this amount, at  
 32.25 least \$445,000 must be used for state parks  
 32.26 and trails along the Minnesota River. State  
 32.27 park land acquired with this appropriation  
 32.28 must be sufficiently improved to meet at  
 32.29 least minimum management standards, as  
 32.30 determined by the commissioner of natural  
 32.31 resources. A list of proposed acquisitions  
 32.32 must be provided as part of the required work  
 32.33 plan. This appropriation is available until  
 32.34 June 30, 2019, by which time the project must  
 32.35 be completed and final products delivered.

33.1 **(b) Scientific and Natural Area Acquisition and**  
33.2 **Restoration**

33.3 \$4,000,000 the second year is from the  
33.4 trust fund to the commissioner of natural  
33.5 resources to acquire approximately 400  
33.6 acres of land with high-quality native plant  
33.7 communities and rare features from willing  
33.8 sellers, to be established as scientific and  
33.9 natural areas as provided in Minnesota  
33.10 Statutes, section 86A.05, subdivision 5,  
33.11 and restore and improve approximately  
33.12 750 acres of scientific and natural areas.  
33.13 Of this appropriation, at least \$1,300,000  
33.14 is designated for restoration. A list of  
33.15 proposed acquisitions and restorations must  
33.16 be provided as part of the required work  
33.17 plan. Land acquired with this appropriation  
33.18 must be sufficiently improved to meet at  
33.19 least minimum management standards, as  
33.20 determined by the commissioner of natural  
33.21 resources. This appropriation is available  
33.22 until June 30, 2019, by which time the  
33.23 project must be completed and final products  
33.24 delivered.

33.25 **(c) Minnesota Point Pine Forest Scientific and**  
33.26 **Natural Area Acquisition**

33.27 \$500,000 the second year is from the  
33.28 trust fund to the commissioner of natural  
33.29 resources in cooperation with the Duluth  
33.30 Airport Authority to acquire approximately  
33.31 ten acres as an addition to the designated  
33.32 Minnesota Point Pine Forest Scientific and  
33.33 Natural Area located along the shores of  
33.34 Lake Superior in Duluth.

33.35 **(d) Conservation Easements in Avon Hills -**  
33.36 **Phase III**

34.1 \$1,300,000 the second year is from the  
34.2 trust fund to the commissioner of natural  
34.3 resources for an agreement with Saint John's  
34.4 University in cooperation with Minnesota  
34.5 Land Trust to secure permanent conservation  
34.6 easements on approximately 500 acres  
34.7 of high-quality habitat in Stearns County,  
34.8 prepare conservation management plans, and  
34.9 provide public outreach. A list of proposed  
34.10 easement acquisitions must be provided as  
34.11 part of the required work plan. An entity  
34.12 that acquires a conservation easement with  
34.13 appropriations from the trust fund must have  
34.14 a long-term stewardship plan for the easement  
34.15 and a fund established for monitoring and  
34.16 enforcing the agreement. Funding for the  
34.17 long-term monitoring and enforcement  
34.18 fund must come from nonstate sources for  
34.19 easements acquired with this appropriation.  
34.20 The state may enforce requirements in the  
34.21 conservation easements on land acquired  
34.22 with this appropriation and the conservation  
34.23 easement document must state this authority  
34.24 and explicitly include requirements for  
34.25 water quality and quantity protection. This  
34.26 appropriation is available until June 30,  
34.27 2019, by which time the project must be  
34.28 completed and final products delivered.

34.29 **(e) Wilder Forest Acquisition**

34.30 \$500,000 the second year is from the trust  
34.31 fund to the commissioner of natural resources  
34.32 for an agreement with Washington County  
34.33 in cooperation with the Minnesota Food  
34.34 Association to partially acquire property  
34.35 in Washington County known as Wilder  
34.36 Forest to be used in organic agricultural

35.1 production and habitat conservation. Any  
35.2 land to be acquired must be identified in  
35.3 an approved work plan, publicly owned,  
35.4 and open to public use. The county must  
35.5 evaluate and provide a long-term plan for  
35.6 the conservation of the Wilder Forest area  
35.7 to the Legislative-Citizen Commission on  
35.8 Minnesota Resources before the acquisition  
35.9 is completed. This appropriation must be  
35.10 matched by at least an equal amount of  
35.11 nonstate funds.

35.12 **(f) Lincoln Pipestone Rural Water System**  
35.13 **Acquisition for Wellhead Protection**

35.14 \$1,500,000 the second year is from the  
35.15 trust fund to the commissioner of natural  
35.16 resources for an agreement with Lincoln  
35.17 Pipestone Rural Water to acquire and  
35.18 restore lands designated under an approved  
35.19 wellhead protection plan. Lands acquired  
35.20 with this appropriation must be from willing  
35.21 sellers and be identified by the Department  
35.22 of Health as targeted vulnerable lands for  
35.23 wellhead protection. Lands must be restored  
35.24 to permanent vegetative cover, but may be  
35.25 used for recreation and renewable energy if  
35.26 adequate protection of the drinking water  
35.27 aquifer is provided. A list of proposed  
35.28 acquisitions must be provided as part of the  
35.29 required work plan. Plant and seed materials  
35.30 must follow the Board of Water and Soil  
35.31 Resources' native vegetation establishment  
35.32 and enhancement guidelines. Income  
35.33 derived from the lands acquired with funds  
35.34 appropriated under this paragraph is exempt  
35.35 from Minnesota Statutes, section 116P.10,  
35.36 if used for additional wellhead protection as

36.1 provided under this paragraph until adequate  
36.2 wellhead protection has been achieved,  
36.3 as determined by the commissioner of  
36.4 health. Any income earned after that must  
36.5 be returned to the environment and natural  
36.6 resources trust fund. This appropriation  
36.7 is available until June 30, 2019, by which  
36.8 time the project must be completed and final  
36.9 products delivered.

36.10 **(g) Mesabi Trail Segment from Highway 135**  
36.11 **to Town of Embarrass**

36.12 \$1,200,000 the second year is from the trust  
36.13 fund to the commissioner of natural resources  
36.14 for an agreement with the St. Louis and Lake  
36.15 Counties Regional Railroad Authority for  
36.16 engineering and construction of segments of  
36.17 the Mesabi Trail, totaling approximately six  
36.18 miles between Highway 135 and the town of  
36.19 Embarrass. This appropriation is available  
36.20 until June 30, 2019, by which time the  
36.21 project must be completed and final products  
36.22 delivered.

36.23 **(h) Tower Historic Harbor Trail Connections**

36.24 \$679,000 the second year is from the trust  
36.25 fund to the commissioner of natural resources  
36.26 for an agreement with the city of Tower to  
36.27 construct recreational trails along the harbor  
36.28 in Tower and to connect to the Mesabi Trail.  
36.29 This appropriation is available until June  
36.30 30, 2019, by which time the project must be  
36.31 completed and final products delivered.

36.32 **(i) Otter Tail River Recreational Trail**  
36.33 **Acquisition**

36.34 \$500,000 the second year is from the trust  
36.35 fund to the commissioner of natural resources

37.1 for an agreement with the city of Fergus Falls  
 37.2 to acquire approximately 16 acres along the  
 37.3 Otter Tail River for a recreational trail and  
 37.4 park. This appropriation is contingent on at  
 37.5 least an equal match of nonstate money. Prior  
 37.6 to the acquisition, a phase 1 environmental  
 37.7 assessment must be completed and the city  
 37.8 must not accept any liability for previous  
 37.9 contamination of lands acquired with this  
 37.10 appropriation.

37.11 Subd. 10. Administration -0- 210,000

37.12 **(a) Contract Agreement Reimbursement**

37.13 \$135,000 the second year is from  
 37.14 the trust fund to the commissioner of  
 37.15 natural resources, at the direction of  
 37.16 the Legislative-Citizen Commission on  
 37.17 Minnesota Resources, for expenses incurred  
 37.18 for contract agreement reimbursement for  
 37.19 the agreements specified in this section. The  
 37.20 commissioner shall provide documentation  
 37.21 to the Legislative-Citizen Commission on  
 37.22 Minnesota Resources on the expenditure of  
 37.23 these funds.

37.24 **(b) Grants Management System**

37.25 \$75,000 the second year is from the trust  
 37.26 fund to the Legislative-Citizen Commission  
 37.27 on Minnesota Resources for upgrading and  
 37.28 modernizing a project records management  
 37.29 system.

37.30 **Subd. 11. Availability of Appropriations**

37.31 Money appropriated in this section may  
 37.32 not be spent on activities unless they are  
 37.33 directly related to and necessary for a specific  
 37.34 appropriation and are specified in the work

38.1 plan approved by the Legislative-Citizen  
38.2 Commission on Minnesota Resources.  
38.3 Money appropriated in this section must  
38.4 not be spent on indirect costs or other  
38.5 institutional overhead charges that are  
38.6 not directly related to and necessary for  
38.7 a specific appropriation. Costs that are  
38.8 directly related to and necessary for an  
38.9 appropriation, including financial services,  
38.10 human resources, information services, rent,  
38.11 and utilities, are eligible only if the costs  
38.12 can be clearly justified and individually  
38.13 documented specific to the appropriation's  
38.14 purpose and would not be generated by  
38.15 the recipient but for the receipt of the  
38.16 appropriation. No broad allocations for costs  
38.17 in either dollars or percentages are allowed.  
38.18 Unless otherwise provided, the amounts in  
38.19 this section are available until June 30, 2018,  
38.20 when projects must be completed and final  
38.21 products delivered. For acquisition of real  
38.22 property, the appropriations in this section  
38.23 are available for an additional fiscal year if a  
38.24 binding contract for acquisition of the real  
38.25 property is entered into before the original  
38.26 expiration date of the appropriation. If a  
38.27 project receives a federal grant, the time  
38.28 period of the appropriation is extended to  
38.29 equal the federal grant period.

38.30 **Subd. 12. Data Availability Requirements**

38.31 Data collected by the projects funded under  
38.32 this section must conform to guidelines  
38.33 and standards adopted by MN.IT Services.  
38.34 Spatial data also must conform to additional  
38.35 guidelines and standards designed to support  
38.36 data coordination and distribution that have

39.1 been published by the Minnesota Geospatial  
39.2 Information Office. Descriptions of spatial  
39.3 data must be prepared as specified in  
39.4 the state's geographic metadata guideline  
39.5 and must be submitted to the Minnesota  
39.6 Geospatial Information Office. All data must  
39.7 be accessible and free to the public unless  
39.8 made private under the Data Practices Act,  
39.9 Minnesota Statutes, chapter 13. To the extent  
39.10 practicable, summary data and results of  
39.11 projects funded under this section should  
39.12 be readily accessible on the Internet and  
39.13 identified as having received funding from  
39.14 the environment and natural resources trust  
39.15 fund.

39.16 Subd. 13. **Project Requirements**

39.17 (a) As a condition of accepting an  
39.18 appropriation under this section, an agency  
39.19 or entity receiving an appropriation or a  
39.20 party to an agreement from an appropriation  
39.21 must comply with paragraphs (b) to (l)  
39.22 and Minnesota Statutes, chapter 116P, and  
39.23 must submit a work plan and semiannual  
39.24 progress reports in the form determined  
39.25 by the Legislative-Citizen Commission on  
39.26 Minnesota Resources for any project funded  
39.27 in whole or in part with funds from the  
39.28 appropriation. Modifications to the approved  
39.29 work plan and budget expenditures must  
39.30 be made through the amendment process  
39.31 established by the Legislative-Citizen  
39.32 Commission on Minnesota Resources.

39.33 (b) A recipient of money appropriated in  
39.34 this section that conducts a restoration using  
39.35 funds appropriated in this section must use

40.1 native plant species according to the Board of  
40.2 Water and Soil Resources' native vegetation  
40.3 establishment and enhancement guidelines  
40.4 and include an appropriate diversity of  
40.5 native species selected to provide habitat for  
40.6 pollinators throughout the growing season as  
40.7 required under Minnesota Statutes, section  
40.8 84.973.

40.9 (c) For all restorations conducted with money  
40.10 appropriated under this section, a recipient  
40.11 must prepare an ecological restoration  
40.12 and management plan that, to the degree  
40.13 practicable, is consistent with the highest  
40.14 quality conservation and ecological goals for  
40.15 the restoration site. Consideration should  
40.16 be given to soil, geology, topography, and  
40.17 other relevant factors that would provide  
40.18 the best chance for long-term success and  
40.19 durability of the restoration project. The  
40.20 plan must include the proposed timetable  
40.21 for implementing the restoration, including  
40.22 site preparation, establishment of diverse  
40.23 plant species, maintenance, and additional  
40.24 enhancement to establish the restoration;  
40.25 identify long-term maintenance and  
40.26 management needs of the restoration and  
40.27 how the maintenance, management, and  
40.28 enhancement will be financed; and take  
40.29 advantage of the best available science and  
40.30 include innovative techniques to achieve the  
40.31 best restoration.

40.32 (d) An entity receiving an appropriation in  
40.33 this section for restoration activities must  
40.34 provide an initial restoration evaluation  
40.35 at the completion of the appropriation  
40.36 and an evaluation three years beyond the

41.1 completion of the expenditure. Restorations  
41.2 must be evaluated relative to the stated  
41.3 goals and standards in the restoration plan,  
41.4 current science, and, when applicable, the  
41.5 Board of Water and Soil Resources' native  
41.6 vegetation establishment and enhancement  
41.7 guidelines. The evaluation must determine  
41.8 whether the restorations are meeting planned  
41.9 goals, identify any problems with the  
41.10 implementation of the restorations, and,  
41.11 if necessary, give recommendations on  
41.12 improving restorations. The evaluation must  
41.13 be focused on improving future restorations.

41.14 (e) All restoration and enhancement projects  
41.15 funded with money appropriated in this  
41.16 section must be on land permanently  
41.17 protected by a conservation easement or  
41.18 public ownership.

41.19 (f) A recipient of money from an  
41.20 appropriation under this section must  
41.21 give consideration to contracting with  
41.22 Conservation Corps Minnesota for contract  
41.23 restoration and enhancement services.

41.24 (g) All conservation easements acquired with  
41.25 money appropriated under this section must:

41.26 (1) be permanent;

41.27 (2) specify the parties to an easement in the  
41.28 easement;

41.29 (3) specify all of the provisions of an  
41.30 agreement that are permanent;

41.31 (4) be sent to the Legislative-Citizen  
41.32 Commission on Minnesota Resources in an  
41.33 electronic format at least ten business days  
41.34 prior to closing;

42.1 (5) include a long-term monitoring and  
42.2 enforcement plan and funding for monitoring  
42.3 and enforcing the easement agreement; and  
42.4 (6) include requirements in the easement  
42.5 document to address specific groundwater  
42.6 and surface water quality protection activities  
42.7 such as keeping water on the landscape,  
42.8 reducing nutrient and contaminant loading,  
42.9 protecting groundwater, and not permitting  
42.10 artificial hydrological modifications.

42.11 (h) For any acquisition of lands or interest  
42.12 in lands, a recipient of money appropriated  
42.13 under this section must not agree to pay  
42.14 more than 100 percent of the appraised value  
42.15 for a parcel of land using this money to  
42.16 complete the purchase, in part or in whole,  
42.17 except that up to ten percent above the  
42.18 appraised value may be allowed to complete  
42.19 the purchase, in part or in whole, using this  
42.20 money if permission is received in advance  
42.21 of the purchase from the Legislative-Citizen  
42.22 Commission on Minnesota Resources.

42.23 (i) For any acquisition of land or interest in  
42.24 land, a recipient of money appropriated under  
42.25 this section must give priority to high-quality  
42.26 natural resources or conservation lands that  
42.27 provide natural buffers to water resources.

42.28 (j) For new lands acquired with money  
42.29 appropriated under this section, a recipient  
42.30 must prepare an ecological restoration  
42.31 and management plan in compliance with  
42.32 paragraph (c), including sufficient funding  
42.33 for implementation unless the work plan  
42.34 addresses why a portion of the money is

43.1 not necessary to achieve a high-quality  
43.2 restoration.

43.3 (k) To ensure public accountability for  
43.4 the use of public funds, within 60 days  
43.5 of the transaction, a recipient of money  
43.6 appropriated under this section must provide  
43.7 to the Legislative-Citizen Commission on  
43.8 Minnesota Resources documentation of the  
43.9 selection process used to identify parcels  
43.10 acquired and provide documentation of all  
43.11 related transaction costs, including but not  
43.12 limited to appraisals, legal fees, recording  
43.13 fees, commissions, other similar costs,  
43.14 and donations. This information must be  
43.15 provided for all parties involved in the  
43.16 transaction. The recipient must also report  
43.17 to the Legislative-Citizen Commission on  
43.18 Minnesota Resources any difference between  
43.19 the acquisition amount paid to the seller and  
43.20 the state-certified or state-reviewed appraisal,  
43.21 if a state-certified or state-reviewed appraisal  
43.22 was conducted.

43.23 (l) A recipient of an appropriation from  
43.24 the trust fund under this section must  
43.25 acknowledge financial support from  
43.26 the Minnesota environment and natural  
43.27 resources trust fund in project publications,  
43.28 signage, and other public communications  
43.29 and outreach related to work completed  
43.30 using the appropriation. Acknowledgment  
43.31 may occur, as appropriate, through use of  
43.32 the trust fund logo or inclusion of language  
43.33 attributing support from the trust fund. Each  
43.34 direct recipient of money appropriated in  
43.35 this section, as well as each recipient of a  
43.36 grant awarded pursuant to this section, must

44.1 satisfy all reporting and other requirements  
44.2 incumbent upon constitutionally dedicated  
44.3 funding recipients as provided in Minnesota  
44.4 Statutes, section 3.303, subdivision 10, and  
44.5 chapter 116P.

44.6 **Subd. 14. Payment Conditions and Capital**  
44.7 **Equipment Expenditures**

44.8 (a) All agreements, grants, or contracts  
44.9 referred to in this section must be  
44.10 administered on a reimbursement basis  
44.11 unless otherwise provided in this section.  
44.12 Notwithstanding Minnesota Statutes, section  
44.13 16A.41, expenditures made on or after  
44.14 July 1, 2016, or the date the work plan is  
44.15 approved, whichever is later, are eligible for  
44.16 reimbursement unless otherwise provided  
44.17 in this section. Periodic payment must be  
44.18 made upon receiving documentation that  
44.19 the deliverable items articulated in the  
44.20 approved work plan have been achieved,  
44.21 including partial achievements as evidenced  
44.22 by approved progress reports. Reasonable  
44.23 amounts may be advanced to projects to  
44.24 accommodate cash flow needs or match  
44.25 federal money. The advances must be  
44.26 approved as part of the work plan. No  
44.27 expenditures for capital equipment are  
44.28 allowed unless expressly authorized in the  
44.29 project work plan.

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

44.32 **Subd. 15. Purchase of Recycled and Recyclable**  
44.33 **Materials**

44.34 A political subdivision, public or private  
44.35 corporation, or other entity that receives an  
44.36 appropriation under this section must use the

45.1 appropriation in compliance with Minnesota  
45.2 Statutes, section 16C.0725, regarding  
45.3 purchase of recycled, repairable, and durable  
45.4 materials; and Minnesota Statutes, section  
45.5 16C.073, regarding purchase and use of  
45.6 paper stock and printing.

45.7 **Subd. 16. Energy Conservation and**  
45.8 **Sustainable Building Guidelines**

45.9 A recipient to whom an appropriation is made  
45.10 under this section for a capital improvement  
45.11 project must ensure that the project complies  
45.12 with the applicable energy conservation and  
45.13 sustainable building guidelines and standards  
45.14 contained in law, including Minnesota  
45.15 Statutes, sections 16B.325, 216C.19, and  
45.16 216C.20, and rules adopted under those  
45.17 sections. The recipient may use the energy  
45.18 planning, advocacy, and State Energy Office  
45.19 units of the Department of Commerce to  
45.20 obtain information and technical assistance  
45.21 on energy conservation and alternative  
45.22 energy development relating to the planning  
45.23 and construction of the capital improvement  
45.24 project.

45.25 **Subd. 17. Accessibility**

45.26 Structural and nonstructural facilities must  
45.27 meet the design standards in the Americans  
45.28 with Disabilities Act (ADA) accessibility  
45.29 guidelines.

45.30 **Subd. 18. Carryforward; Extension**

45.31 The availability of the appropriations for the  
45.32 following projects are extended to June 30,  
45.33 2017:

- 46.1 (a) Laws 2013, chapter 52, section 2,  
46.2 subdivision 3, paragraph (c), County  
46.3 Geologic Atlases - Part B;
- 46.4 (b) Laws 2013, chapter 52, section 2,  
46.5 subdivision 4, paragraph (d), Metropolitan  
46.6 Conservation Corridors (MeCC) - Phase  
46.7 VII, \$400,000 for the agreement with the  
46.8 Minnesota Valley National Wildlife Refuge  
46.9 Trust, Inc. only;
- 46.10 (c) Laws 2013, chapter 52, section 2,  
46.11 subdivision 4, paragraph (i), Conservation  
46.12 Grazing to Improve Wildlife Habitat on  
46.13 Wildlife Management Areas;
- 46.14 (d) Laws 2013, chapter 52, section 2,  
46.15 subdivision 5, paragraph (b), Assessment of  
46.16 Natural Copper-Nickel Bedrocks on Water  
46.17 Quality;
- 46.18 (e) Laws 2013, chapter 52, section 2,  
46.19 subdivision 5, paragraph (f), Evaluation of  
46.20 Lake Superior Water Quality Health;
- 46.21 (f) Laws 2013, chapter 52, section 2,  
46.22 subdivision 6, paragraph (c), Improving  
46.23 Emerald Ash Borer Detection Efficacy for  
46.24 Control;
- 46.25 (g) Laws 2014, chapter 226, section 2,  
46.26 subdivision 3, paragraph (l), Rainwater  
46.27 Reuse and Valuation Investigation;
- 46.28 (h) Laws 2014, chapter 226, section  
46.29 2, subdivision 10, paragraph (c),  
46.30 Legislative-Citizen Commission on  
46.31 Minnesota Resources (LCCMR) for upgrade  
46.32 and modernization of a project records  
46.33 management system; and

47.1 (i) Laws 2014, chapter 226, section 2,  
47.2 subdivision 8, paragraph (b), Innovative  
47.3 Groundwater-Enhanced Geothermal Heat  
47.4 Pump Study.

47.5 **Sec. 3. [116P.19] DONATIONS.**

47.6 A recipient of money from the trust fund must not accept a monetary donation  
47.7 or payment from an owner of land that is acquired in fee in whole or in part with  
47.8 an appropriation from the trust fund that exceeds the documented expenses that are  
47.9 directly related to and necessary for activities specified in the work plan approved by the  
47.10 commission, unless expressly approved by the commission in the work plan. This section  
47.11 does not apply to:

47.12 (1) donations that are not connected with the acquisition transaction; or  
47.13 (2) bargain sales, as defined by Code of Federal Regulations, title 26, section  
47.14 1.1011-2, provided that the purchase price reimbursed by the state does not exceed the  
47.15 purchase price paid by the recipient.

47.16 **Sec. 4. [116P.20] EASEMENT MONITORING AND ENFORCEMENT**  
47.17 **REQUIREMENTS.**

47.18 A recipient of money appropriated from the trust fund for easement monitoring and  
47.19 enforcement may spend the money only on activities included in an easement monitoring  
47.20 and enforcement plan contained within the work plan. Money received for monitoring  
47.21 and enforcement, including earnings on the money received, must be kept in a monitoring  
47.22 and enforcement fund held by the recipient and dedicated to monitoring and enforcing  
47.23 conservation easements in Minnesota. A recipient of an appropriation for easement  
47.24 monitoring and enforcement must, within 120 days after the close of the recipient's  
47.25 fiscal year, provide an annual financial report to the commission or the commission's  
47.26 successor on the easement monitoring and enforcement fund as specified in the work plan.  
47.27 Money appropriated from the trust fund for monitoring and enforcement of easements and  
47.28 earnings on the money appropriated revert to the state if:

47.29 (1) the easement transfers to the state;  
47.30 (2) the recipient fails to file an annual financial report and then fails to cure the  
47.31 default within 30 days of notification of the default by the state; or  
47.32 (3) the recipient fails to comply with the terms of the monitoring and enforcement  
47.33 plan contained within the work plan and fails to cure the default within 90 days of  
47.34 notification of the default by the state.