



2.6 The amounts that may be spent for each  
 2.7 purpose are specified in the following  
 2.8 subdivisions. Appropriations are available  
 2.9 for two years beginning July 1, 2016, unless  
 2.10 otherwise stated in the appropriation. Any  
 2.11 unencumbered balance remaining in the  
 2.12 first year does not cancel and is available  
 2.13 for the second year or until the end of the  
 2.14 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 Minnesota Constitution,  
 2.19 article XI, section 14.

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

-0- 8,328,000

2.22 (a) **Data-Driven Pollinator Conservation  
 2.23 Strategies**

2.24 \$520,000 the second year is from the trust  
 2.25 fund to the Board of Regents of the University  
 2.26 of Minnesota to improve understanding of the  
 2.27 relationships and interactions between native  
 2.28 bee pollinators and rare and declining plant  
 2.29 species and to determine optimal placement  
 2.30 and species plantings for pollinator habitat  
 2.31 in order to develop guidelines for planning,  
 2.32 designing, and planting pollinator habitat.  
 2.33 This appropriation is available until June  
 2.34 30, 2019, by which time the project must be  
 2.35 completed and final products delivered.

3.1 (b) **Native Bee Surveys in Minnesota Prairie  
 3.2 and Forest Habitats**

2.6 The amounts that may be spent for each  
 2.7 purpose are specified in the following  
 2.8 subdivisions. Appropriations are available  
 2.9 for two years beginning July 1, 2016, unless  
 2.10 otherwise stated in the appropriation. Any  
 2.11 unencumbered balance remaining in the  
 2.12 first year does not cancel and is available  
 2.13 for the second year or until the end of the  
 2.14 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 Minnesota Constitution,  
 2.19 article XI, section 14.

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

-0- 13,445,000

2.22 (a) **Data-Driven Pollinator Conservation  
 2.23 Strategies**

2.24 \$520,000 the second year is from the trust  
 2.25 fund to the Board of Regents of the University  
 2.26 of Minnesota to improve understanding of the  
 2.27 relationships and interactions between native  
 2.28 bee pollinators and rare and declining plant  
 2.29 species and to determine optimal placement  
 2.30 and species plantings for pollinator habitat  
 2.31 in order to develop guidelines for planning,  
 2.32 designing, and planting pollinator habitat.  
 2.33 This appropriation is available until June  
 2.34 30, 2019, by which time the project must be  
 2.35 completed and final products delivered.

3.1 (b) **Native Bee Surveys in Minnesota Prairie  
 3.2 and Forest Habitats**

3.3 \$600,000 the second year is from the trust  
 3.4 fund to the commissioner of natural resources  
 3.5 to continue to assess the current status and  
 3.6 distribution of native bee pollinators in  
 3.7 Minnesota by expanding surveys into the  
 3.8 prairie-forest border region and facilitating  
 3.9 interagency collaboration and public  
 3.10 outreach on pollinators. This appropriation  
 3.11 is available until June 30, 2019, by which  
 3.12 time the project must be completed and final  
 3.13 products delivered.

3.14 **(c) Prairie Butterfly Conservation, Research,**  
 3.15 **and Breeding - Phase II**

3.16 \$750,000 the second year is from the trust  
 3.17 fund. Of this amount, \$421,000 is to the  
 3.18 Minnesota Zoological Garden and \$329,000  
 3.19 is to the commissioner of natural resources in  
 3.20 collaboration with the United States Fish and  
 3.21 Wildlife Service to continue efforts to prevent  
 3.22 the extinction of imperiled native Minnesota  
 3.23 butterfly species through breeding, research,  
 3.24 field surveys, and potential reintroduction.  
 3.25 This appropriation is available until June  
 3.26 30, 2019, by which time the project must be  
 3.27 completed and final products delivered.

3.28 **(d) Statewide Monitoring Network for**  
 3.29 **Changing Habitats in Minnesota**

3.3 \$600,000 the second year is from the trust  
 3.4 fund to the commissioner of natural resources  
 3.5 to continue to assess the current status and  
 3.6 distribution of native bee pollinators in  
 3.7 Minnesota by expanding surveys into the  
 3.8 prairie-forest border region and facilitating  
 3.9 interagency collaboration and public  
 3.10 outreach on pollinators. This appropriation  
 3.11 is available until June 30, 2019, by which  
 3.12 time the project must be completed and final  
 3.13 products delivered.

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 3.21 Wildlife Service to continue efforts to prevent  
 3.22 the extinction of imperiled native Minnesota  
 3.23 butterfly species through breeding, research,  
 3.24 field surveys, and potential reintroduction.  
 3.25 This appropriation is available until June  
 3.26 30, 2019, by which time the project must be  
 3.27 completed and final products delivered.

3.30 \$500,000 the second year is from the  
 3.31 trust fund to the commissioner of natural  
 3.32 resources to develop a consolidated statewide  
 3.33 network of permanent habitat monitoring  
 3.34 sites in prairies, forests, and wetlands to  
 3.35 help guide and prioritize habitat protection  
 3.36 and management decisions in response to  
 4.1 environmental change. The design and  
 4.2 testing methodologies of monitoring plots  
 4.3 must address the status of pollinators and  
 4.4 pollination. This appropriation is available  
 4.5 until June 30, 2019, by which time the  
 4.6 project must be completed and final products  
 4.7 delivered.

4.8 **(e) Completing National Wetland Inventory**  
 4.9 **Update for Minnesota**

4.10 \$1,500,000 the second year is from the trust  
 4.11 fund to the commissioner of natural resources  
 4.12 to complete the update and enhancement  
 4.13 of wetland inventory maps for counties in  
 4.14 central and northwestern Minnesota. This  
 4.15 appropriation is available until June 30,  
 4.16 2019, by which time the project must be  
 4.17 completed and final products delivered.

4.18 **(f) Minnesota Vegetative Buffer Assessment**  
 4.19 **and Prioritization to Protect Water Quality**

4.20 \$170,000 the second year is from the  
 4.21 trust fund to the Board of Regents of  
 4.22 the University of Minnesota to develop  
 4.23 a geographic information system (GIS)  
 4.24 assessment of riparian vegetative buffers  
 4.25 in 67 agricultural counties in Minnesota  
 4.26 using aerial imagery and light detection and  
 4.27 ranging (LiDAR) terrain analysis in order to  
 4.28 protect water quality.

3.28 **(d) Completing National Wetland Inventory**  
 3.29 **Update for Minnesota**

3.30 \$1,500,000 the second year is from the trust  
 3.31 fund to the commissioner of natural resources  
 3.32 to complete the update and enhancement  
 3.33 of wetland inventory maps for counties in  
 3.34 central and northwestern Minnesota. This  
 3.35 appropriation is available until June 30,  
 4.1 2019, by which time the project must be  
 4.2 completed and final products delivered.

4.29 (g) Assessment Tool for Understanding  
 4.30 Vegetation Growth Impacts on Groundwater  
 4.31 Recharge

4.32 \$212,000 the second year is from the  
 4.33 trust fund to the Board of Regents of the  
 4.34 University of Minnesota to develop a  
 4.35 statewide assessment tool to help understand  
 4.36 the relationship between vegetation growth  
 5.1 and impacts on groundwater recharge  
 5.2 under changing land use and climate. This  
 5.3 appropriation is available until June 30,  
 5.4 2019, by which time the project must be  
 5.5 completed and final products delivered.

5.6 (h) Sentinel Lakes Monitoring and Data  
 5.7 Synthesis – Phase III

5.8 \$401,000 the second year is from the trust  
 5.9 fund to the commissioner of natural resources  
 5.10 for the third and final phase of a monitoring  
 5.11 and multidisciplinary research effort on  
 5.12 25 sentinel lakes in Minnesota, which will  
 5.13 integrate and synthesize previously collected  
 5.14 data to enhance understanding of how  
 5.15 lakes respond to large-scale environmental  
 5.16 stressors and provide for improved ability  
 5.17 to predict and respond to lake changes  
 5.18 for water and fisheries management. This  
 5.19 appropriation is available until June 30,  
 5.20 2019, by which time the project must be  
 5.21 completed and final products delivered.

5.22 (i) State Spring Inventory for Resource  
 5.23 Management and Protection - Phase II

4.3 (e) Assessment Tool for Understanding  
 4.4 Vegetation Growth Impacts on Groundwater  
 4.5 Recharge

4.6 \$212,000 the second year is from the  
 4.7 trust fund to the Board of Regents of the  
 4.8 University of Minnesota to develop a  
 4.9 statewide assessment tool to help understand  
 4.10 the relationship between vegetation growth  
 4.11 and impacts on groundwater recharge  
 4.12 under changing land use and climate. This  
 4.13 appropriation is available until June 30,  
 4.14 2019, by which time the project must be  
 4.15 completed and final products delivered.

4.16 (f) Sentinel Lakes Monitoring and Data  
 4.17 Synthesis – Phase III

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 4.19 fund to the commissioner of natural resources  
 4.20 for the third and final phase of a monitoring  
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 4.22 25 sentinel lakes in Minnesota, which will  
 4.23 integrate and synthesize previously collected  
 4.24 data to enhance understanding of how  
 4.25 lakes respond to large-scale environmental  
 4.26 stressors and provide for improved ability  
 4.27 to predict and respond to lake changes  
 4.28 for water and fisheries management. This  
 4.29 appropriation is available until June 30,  
 4.30 2019, by which time the project must be  
 4.31 completed and final products delivered.

4.32 (g) State Spring Inventory for Resource  
 4.33 Management and Protection - Phase II

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

6.1 **(j) Enhancing Understanding of Minnesota**  
 6.2 **River Aquatic Ecosystem**

6.3 \$500,000 the second year is from the trust  
 6.4 fund to the commissioner of natural resources  
 6.5 to accelerate collection of baseline data to  
 6.6 enhance understanding of the Minnesota  
 6.7 River ecosystem, measure future impacts  
 6.8 of changing climate and landscapes on  
 6.9 the aquatic ecosystem, and guide future  
 6.10 management efforts. This appropriation  
 6.11 is available until June 30, 2019, by which  
 6.12 time the project must be completed and final  
 6.13 products delivered.

6.14 **(k) Improving Brook Trout Stream Habitat**  
 6.15 **Through Beaver Management**

6.16 \$225,000 the second year is from the  
 6.17 trust fund to the Board of Trustees of the  
 6.18 Minnesota State Colleges and Universities  
 6.19 system for Bemidji State University to  
 6.20 quantify how beaver activity influences  
 6.21 habitat quality in streams for brook trout in  
 6.22 northeastern Minnesota in order to improve  
 6.23 current and future management practices.  
 6.24 This appropriation is available until June  
 6.25 30, 2019, by which time the project must be  
 6.26 completed and final products delivered.

4.34 \$370,000 the second year is from the trust  
 4.35 fund to the commissioner of natural resources  
 4.36 to continue a systematic inventory of springs  
 5.1 statewide to provide fundamental data  
 5.2 needed to maintain spring flows and protect  
 5.3 groundwater-dependent resources. Increased  
 5.4 outreach to the public and other entities must  
 5.5 be conducted to assist in the identification,  
 5.6 documentation, and publication of spring  
 5.7 locations. This appropriation is available  
 5.8 until June 30, 2019, by which time the  
 5.9 project must be completed and final products  
 5.10 delivered.

5.11 **(h) Enhancing Understanding of Minnesota**  
 5.12 **River Aquatic Ecosystem**

5.13 \$500,000 the second year is from the trust  
 5.14 fund to the commissioner of natural resources  
 5.15 to accelerate collection of baseline data to  
 5.16 enhance understanding of the Minnesota  
 5.17 River ecosystem, measure future impacts  
 5.18 of changing climate and landscapes on  
 5.19 the aquatic ecosystem, and guide future  
 5.20 management efforts. This appropriation  
 5.21 is available until June 30, 2019, by which  
 5.22 time the project must be completed and final  
 5.23 products delivered.

5.24 **(i) Improving Brook Trout Stream Habitat**  
 5.25 **Through Beaver Management**

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 5.27 trust fund to the Board of Trustees of the  
 5.28 Minnesota State Colleges and Universities  
 5.29 system for Bemidji State University to  
 5.30 quantify how beaver activity influences  
 5.31 habitat quality in streams for brook trout in  
 5.32 northeastern Minnesota in order to improve  
 5.33 current and future management practices.  
 5.34 This appropriation is available until June  
 5.35 30, 2019, by which time the project must be  
 5.36 completed and final products delivered.

6.27 **(l) Evaluate Temperature, Streamflow, and**  
 6.28 **Hydrogeology Impact on Brook Trout Habitat**

6.29 \$115,000 the second year is from the  
 6.30 trust fund to the Board of Regents of the  
 6.31 University of Minnesota for the Minnesota  
 6.32 Geological Survey to evaluate links between  
 6.33 southeastern Minnesota stream temperatures,  
 6.34 trout habitat, and bedrock hydrogeology to  
 6.35 improve trout stream management. This  
 6.36 appropriation is available until June 30,  
 7.1 2019, by which time the project must be  
 7.2 completed and final products delivered.

7.3 **(m) Restoration of Elk to Northeastern**  
 7.4 **Minnesota**

7.5 \$300,000 the second year is from the  
 7.6 trust fund to the Board of Regents of the  
 7.7 University of Minnesota in cooperation with  
 7.8 the Fond du Lac Band and Rocky Mountain  
 7.9 Elk Foundation to determine the habitat  
 7.10 suitability and levels of public support for  
 7.11 restoring elk to northeastern Minnesota.  
 7.12 This appropriation is available until June  
 7.13 30, 2019, by which time the project must be  
 7.14 completed and final products delivered.

7.15 **(n) Game and Nongame Bird Pesticide**  
 7.16 **Exposure**

7.17 \$349,000 the second year is from the trust  
 7.18 fund to the Board of Regents of the University  
 7.19 of Minnesota to evaluate the potential risk  
 7.20 to game and nongame birds from exposure  
 7.21 to neonicotinoid-treated agricultural seeds.  
 7.22 This appropriation is available until June  
 7.23 30, 2019, by which time the project must be  
 7.24 completed and final products delivered.

6.1 **(j) Evaluate Temperature, Streamflow, and**  
 6.2 **Hydrogeology Impact on Brook Trout Habitat**

6.3 \$115,000 the second year is from the  
 6.4 trust fund to the Board of Regents of the  
 6.5 University of Minnesota for the Minnesota  
 6.6 Geological Survey to evaluate links between  
 6.7 southeastern Minnesota stream temperatures,  
 6.8 trout habitat, and bedrock hydrogeology to  
 6.9 improve trout stream management. This  
 6.10 appropriation is available until June 30,  
 6.11 2019, by which time the project must be  
 6.12 completed and final products delivered.

6.13 **(k) Restoration of Elk to Northeastern**  
 6.14 **Minnesota**

6.15 \$300,000 the second year is from the  
 6.16 trust fund to the Board of Regents of the  
 6.17 University of Minnesota in cooperation with  
 6.18 the Fond du Lac Band and Rocky Mountain  
 6.19 Elk Foundation to determine the habitat  
 6.20 suitability and levels of public support for  
 6.21 restoring elk to northeastern Minnesota.  
 6.22 This appropriation is available until June  
 6.23 30, 2019, by which time the project must be  
 6.24 completed and final products delivered.

6.25 **(l) Game and Nongame Bird Pesticide Exposure**

6.26 \$349,000 the second year is from the trust  
 6.27 fund to the Board of Regents of the University  
 6.28 of Minnesota to evaluate the potential risk  
 6.29 to game and nongame birds from exposure  
 6.30 to neonicotinoid-treated agricultural seeds.  
 6.31 This appropriation is available until June  
 6.32 30, 2019, by which time the project must be  
 6.33 completed and final products delivered.

7.25 (o) Evaluating Insecticide Exposure Risk for  
 7.26 Grassland Wildlife on Public Lands

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

8.1 (p) Development of Innovative Cost-Saving  
 8.2 Methodology for Forest Inventory

8.3 \$1,000,000 the second year is from the  
 8.4 trust fund to the commissioner of natural  
 8.5 resources to develop and pilot a new and more  
 8.6 cost-effective methodology for an enhanced  
 8.7 stand-based forest inventory, with the goal  
 8.8 of extending the methodology statewide.  
 8.9 This appropriation is available until June  
 8.10 30, 2019, by which time the project must be  
 8.11 completed and final products delivered.

8.12 (q) Evaluation of Tree Retention Guidelines  
 8.13 Pertaining to Wildlife

6.34 (m) Evaluating Insecticide Exposure Risk for  
 6.35 Grassland Wildlife on Public Lands

7.1 \$250,000 the second year is from the trust  
 7.2 fund to the commissioner of natural resources  
 7.3 to evaluate exposure risks of grassland  
 7.4 wildlife to soybean aphid insecticides, to  
 7.5 guide grassland management in farmland  
 7.6 regions of Minnesota for the protection of  
 7.7 birds, beneficial insects, and other grassland  
 7.8 wildlife. This appropriation is available until  
 7.9 June 30, 2019, by which time the project must  
 7.10 be completed and final products delivered.

7.11 (n) Development of Innovative Cost-Saving  
 7.12 Methodology for Forest Inventory

7.13 \$800,000 the second year is from the trust  
 7.14 fund to the commissioner of natural resources  
 7.15 to develop and pilot a new and more  
 7.16 cost-effective methodology for an enhanced  
 7.17 stand-based forest inventory, with the goal  
 7.18 of extending the methodology statewide.  
 7.19 This appropriation is available until June  
 7.20 30, 2019, by which time the project must be  
 7.21 completed and final products delivered.

7.22 (o) Evaluation of Tree Retention Guidelines  
 7.23 Pertaining to Wildlife

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

8.27 **(r) Determine Impacts on Wildlife From**  
 8.28 **Emerald Ash Borer Infection of Black Ash**  
 8.29 **Forests**

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

7.24 \$232,000 the second year is from the  
 7.25 trust fund to the Board of Regents of the  
 7.26 University of Minnesota for the Natural  
 7.27 Resources Research Institute in Duluth to  
 7.28 assess the effectiveness of the Minnesota  
 7.29 Forest Resources Council tree retention  
 7.30 guidelines in sustaining Minnesota's wildlife  
 7.31 populations, by quantifying and evaluating  
 7.32 the impacts on birds, small mammals, and  
 7.33 amphibian diversity. This appropriation  
 7.34 is available until June 30, 2019, by which  
 7.35 time the project must be completed and final  
 7.36 products delivered.

8.1 **(p) Determine Impacts on Wildlife From**  
 8.2 **Emerald Ash Borer Infection of Black Ash**  
 8.3 **Forests**

8.4 \$334,000 the second year is from the  
 8.5 trust fund to the Board of Regents of the  
 8.6 University of Minnesota for the Natural  
 8.7 Resources Research Institute in Duluth  
 8.8 to assess impacts of emerald ash borer  
 8.9 and adaptive management on wildlife  
 8.10 diversity in black ash forests and to develop  
 8.11 recommendations to mitigate wildlife  
 8.12 impacts. This appropriation is available until  
 8.13 June 30, 2019, by which time the project must  
 8.14 be completed and final products delivered.

8.15 **(q) Aggregate Mapping**

8.16 \$1,500,000 the second year is from the  
 8.17 trust fund to the commissioner of natural  
 8.18 resources to map the extent and quality of  
 8.19 aggregate resources in counties that have not  
 8.20 previously been mapped. This appropriation  
 8.21 is available until June 30, 2019, by which  
 8.22 time the project must be completed and final  
 8.23 products delivered.

8.24 **(r) Pineland Sands Lands and Water Study**

8.25 \$1,500,000 the second year is from the trust  
 8.26 fund to the commissioner of natural resources  
 8.27 to study the impact of changes in land use  
 8.28 from forest land to irrigated agriculture in the  
 8.29 Pineland Sands aquifer along the Crow Wing  
 8.30 River. This appropriation is available until  
 8.31 June 30, 2021, and is not subject to Minnesota  
 8.32 Statutes, sections 116P.05, subdivision 2,  
 8.33 paragraph (b), and 116P.09, subdivision 4.

8.34 (s) **Natural Resources Research Institute**

9.1 \$2,987,000 the second year is from the  
 9.2 trust fund to the Board of Regents of the  
 9.3 University of Minnesota for academic and  
 9.4 applied research through MnDRIVE at the  
 9.5 Natural Resources Research Institute for  
 9.6 projects that include, but are not limited to,  
 9.7 the creation of a portfolio of waterborne  
 9.8 sulfate reduction technologies and the  
 9.9 development of technologies for current  
 9.10 and emerging environmental and natural  
 9.11 resources opportunities. This appropriation  
 9.12 is available until June 30, 2018, and is  
 9.13 not subject to Minnesota Statutes, section  
 9.14 116P.05, subdivision 2.

9.5 Subd. 4. **Water Resources** -0- 8,349,000

9.6 (a) **Tracking and Preventing Harmful Algal**  
 9.7 **Blooms**

9.15 Subd. 4. **Water Resources** -0- 6,418,000

9.16 (a) **Tracking and Preventing Harmful Algal**  
 9.17 **Blooms**

9.8 \$500,000 the second year is from the trust  
 9.9 fund to the Science Museum of Minnesota  
 9.10 for the St. Croix Watershed Research Station  
 9.11 to identify species composition and timing of  
 9.12 harmful algal blooms, understand the causes  
 9.13 of bloom development in individual lakes,  
 9.14 and determine how nutrients and climate  
 9.15 interact to increase harmful algae outbreaks.  
 9.16 This work must be done in cooperation  
 9.17 with the University of Minnesota and the  
 9.18 Minnesota Pollution Control Agency. This  
 9.19 appropriation is available until June 30,  
 9.20 2019, by which time the project must be  
 9.21 completed and final products delivered.

9.22 **(b) Assessing the Increasing Harmful Algal**  
 9.23 **Blooms in Minnesota Lakes**

9.24 \$270,000 the second year is from the trust  
 9.25 fund to the Board of Regents of the University  
 9.26 of Minnesota for the Saint Anthony Falls  
 9.27 Laboratory to investigate lake processes  
 9.28 and meteorological conditions triggering  
 9.29 algal blooms and toxin production, develop  
 9.30 models for tracking blooms, and provide  
 9.31 outreach on the prediction, detection, and  
 9.32 impacts of mitigation of algal bloom events.  
 9.33 This work must be done in cooperation with  
 9.34 the St. Croix Watershed Research Station  
 9.35 of the Science Museum of Minnesota and  
 9.36 the Minnesota Pollution Control Agency.  
 10.1 This appropriation is available until June  
 10.2 30, 2019, by which time the project must be  
 10.3 completed and final products delivered.

10.4 **(c) Restoring Native Mussels in Streams and**  
 10.5 **Lakes**

9.18 \$500,000 the second year is from the trust  
 9.19 fund to the Science Museum of Minnesota  
 9.20 for the St. Croix Watershed Research Station  
 9.21 to identify species composition and timing of  
 9.22 harmful algal blooms, understand the causes  
 9.23 of bloom development in individual lakes,  
 9.24 and determine how nutrients and climate  
 9.25 interact to increase harmful algae outbreaks.  
 9.26 This work must be done in cooperation  
 9.27 with the University of Minnesota and the  
 9.28 Minnesota Pollution Control Agency. This  
 9.29 appropriation is available until June 30,  
 9.30 2019, by which time the project must be  
 9.31 completed and final products delivered.

9.32 **(b) Assessing the Increasing Harmful Algal**  
 9.33 **Blooms in Minnesota Lakes**

9.34 \$270,000 the second year is from the trust  
 9.35 fund to the Board of Regents of the University  
 9.36 of Minnesota for the Saint Anthony Falls  
 10.1 Laboratory to investigate lake processes  
 10.2 and meteorological conditions triggering  
 10.3 algal blooms and toxin production, develop  
 10.4 models for tracking blooms, and provide  
 10.5 outreach on the prediction, detection, and  
 10.6 impacts of mitigation of algal bloom events.  
 10.7 This work must be done in cooperation with  
 10.8 the St. Croix Watershed Research Station  
 10.9 of the Science Museum of Minnesota and  
 10.10 the Minnesota Pollution Control Agency.  
 10.11 This appropriation is available until June  
 10.12 30, 2019, by which time the project must be  
 10.13 completed and final products delivered.

10.14 **(c) Restoring Native Mussels in Streams and**  
 10.15 **Lakes**

10.6 \$600,000 the second year is from the  
 10.7 trust fund to the commissioner of natural  
 10.8 resources in cooperation with the Minnesota  
 10.9 Zoological Garden for a statewide mussel  
 10.10 program to rear, restore, and re-establish  
 10.11 native mussel species in streams and rivers.  
 10.12 This appropriation is available until June  
 10.13 30, 2019, by which time the project must be  
 10.14 completed and final products delivered.

10.15 **(d) Assessing Techniques for Eliminating**  
 10.16 **Contaminants to Protect Native Fish and**  
 10.17 **Mussels**

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

10.29 **(e) Assessing Neonicotinoid Insecticide Effects**  
 10.30 **on Aquatic and Soil Communities**

10.31 \$400,000 the second year is from the trust  
 10.32 fund to the Board of Regents of the University  
 10.33 of Minnesota to identify neonicotinoid  
 10.34 insecticide breakdown components produced  
 10.35 in water and plant leaves and assess their  
 10.36 toxicity to soil and aquatic species and related  
 11.1 biotic communities. This appropriation is  
 11.2 available until June 30, 2019, by which time  
 11.3 the project must be completed and final  
 11.4 products delivered.

11.5 **(f) Bacterial Assessment of Groundwater**  
 11.6 **Supplies Used for Drinking Water**

10.16 \$600,000 the second year is from the  
 10.17 trust fund to the commissioner of natural  
 10.18 resources in cooperation with the Minnesota  
 10.19 Zoological Garden for a statewide mussel  
 10.20 program to rear, restore, and re-establish  
 10.21 native mussel species in streams and rivers.  
 10.22 This appropriation is available until June  
 10.23 30, 2019, by which time the project must be  
 10.24 completed and final products delivered.

10.25 **(d) Assessing Techniques for Eliminating**  
 10.26 **Contaminants to Protect Native Fish and**  
 10.27 **Mussels**

10.28 \$287,000 the second year is from the  
 10.29 trust fund to the commissioner of natural  
 10.30 resources for an agreement with the  
 10.31 University of St. Thomas to evaluate the  
 10.32 use of ultraviolet treatment of wastewater  
 10.33 to remove certain commonly detected  
 10.34 wastewater contaminants, in order to reduce  
 10.35 the contaminants' toxicity to native fish and  
 10.36 mussels. This appropriation is available until  
 11.1 June 30, 2019, by which time the project must  
 11.2 be completed and final products delivered.

11.3 **(e) Assessing Neonicotinoid Insecticide Effects**  
 11.4 **on Aquatic and Soil Communities**

11.5 \$400,000 the second year is from the trust  
 11.6 fund to the Board of Regents of the University  
 11.7 of Minnesota to identify neonicotinoid  
 11.8 insecticide breakdown components produced  
 11.9 in water and plant leaves and assess their  
 11.10 toxicity to soil and aquatic species and related  
 11.11 biotic communities. This appropriation is  
 11.12 available until June 30, 2019, by which time  
 11.13 the project must be completed and final  
 11.14 products delivered.

11.15 **(f) Bacterial Assessment of Groundwater**  
 11.16 **Supplies Used for Drinking Water**

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

11.18 **(g) Understanding Bedrock Fracture Flow to**  
 11.19 **Improve Groundwater Quality**

11.20 \$183,000 the second year is from the  
 11.21 trust fund to the Board of Regents of the  
 11.22 University of Minnesota for the Minnesota  
 11.23 Geological Survey to use new techniques of  
 11.24 borehole testing and rock fracture mapping in  
 11.25 the Twin Cities metropolitan area to achieve  
 11.26 a better understanding of groundwater  
 11.27 flow through fractured bedrock, in order to  
 11.28 improve groundwater management. This  
 11.29 appropriation is available until June 30,  
 11.30 2019, by which time the project must be  
 11.31 completed and final products delivered.

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

11.34 \$433,000 the second year is from the  
 11.35 trust fund to the commissioner of natural  
 11.36 resources for an agreement with the United  
 12.1 States Geological Survey to continue to test  
 12.2 methods of defining properties of confined  
 12.3 drinking water aquifers, in order to improve  
 12.4 water management. This appropriation is  
 12.5 not subject to Minnesota Statutes, section  
 12.6 116P.10. This appropriation is available until  
 12.7 June 30, 2019, by which time the project must  
 12.8 be completed and final products delivered.

11.17 \$299,000 the second year is from the  
 11.18 trust fund to the Board of Regents of the  
 11.19 University of Minnesota to characterize and  
 11.20 analyze bacterial communities in Minnesota  
 11.21 groundwater used as drinking water supplies  
 11.22 and link the microbiological data to other  
 11.23 water quality indicators for drinking water  
 11.24 supply safety. This appropriation is available  
 11.25 until June 30, 2019, by which time the  
 11.26 project must be completed and final products  
 11.27 delivered.

11.28 **(g) Understanding Bedrock Fracture Flow to**  
 11.29 **Improve Groundwater Quality**

11.30 \$183,000 the second year is from the  
 11.31 trust fund to the Board of Regents of the  
 11.32 University of Minnesota for the Minnesota  
 11.33 Geological Survey to use new techniques of  
 11.34 borehole testing and rock fracture mapping in  
 11.35 the Twin Cities metropolitan area to achieve  
 11.36 a better understanding of groundwater  
 12.1 flow through fractured bedrock, in order to  
 12.2 improve groundwater management. This  
 12.3 appropriation is available until June 30,  
 12.4 2019, by which time the project must be  
 12.5 completed and final products delivered.

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

12.8 \$433,000 the second year is from the  
 12.9 trust fund to the commissioner of natural  
 12.10 resources for an agreement with the United  
 12.11 States Geological Survey to continue to test  
 12.12 methods of defining properties of confined  
 12.13 drinking water aquifers, in order to improve  
 12.14 water management. This appropriation is  
 12.15 not subject to Minnesota Statutes, section  
 12.16 116P.10. This appropriation is available until  
 12.17 June 30, 2019, by which time the project must  
 12.18 be completed and final products delivered.

12.9 **(i) Techniques for Water Storage Estimates in**  
 12.10 **Central Minnesota**

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

12.22 **(j) Assessment of Surface Water Quality with**  
 12.23 **Satellite Sensors**

12.24 \$345,000 the second year is from the trust  
 12.25 fund to the Board of Regents of the University  
 12.26 of Minnesota for a statewide assessment of  
 12.27 water quality using new satellite sensors  
 12.28 for high frequency measurement of major  
 12.29 water quality indicators in lakes and rivers.  
 12.30 This appropriation is available until June  
 12.31 30, 2019, by which time the project must be  
 12.32 completed and final products delivered.

12.33 **(k) Development of Innovative Sensor**  
 12.34 **Technologies for Water Monitoring**

12.35 \$509,000 the second year is from the  
 12.36 trust fund to the Board of Regents of  
 13.1 the University of Minnesota to develop  
 13.2 inexpensive and efficient sensitive sensors  
 13.3 and wireless sensor networks for continuous  
 13.4 monitoring of contaminants in lakes and  
 13.5 rivers in Minnesota. This appropriation  
 13.6 is subject to Minnesota Statutes, section  
 13.7 116P.10. This appropriation is available until  
 13.8 June 30, 2019, by which time the project must  
 13.9 be completed and final products delivered.

12.19 **(i) Development of Innovative Sensor**  
 12.20 **Technologies for Water Monitoring**

12.21 \$509,000 the second year is from the  
 12.22 trust fund to the Board of Regents of  
 12.23 the University of Minnesota to develop  
 12.24 inexpensive and efficient sensitive sensors  
 12.25 and wireless sensor networks for continuous  
 12.26 monitoring of contaminants in lakes and  
 12.27 rivers in Minnesota. This appropriation  
 12.28 is subject to Minnesota Statutes, section  
 12.29 116P.10. This appropriation is available until  
 12.30 June 30, 2019, by which time the project must  
 12.31 be completed and final products delivered.

13.10 **(l) Wastewater Treatment Process**  
 13.11 **Improvements**

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

13.22 **(m) Membrane-Based Process for**  
 13.23 **Decentralized Drinking Water Production**

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

14.1 **(n) Analyzing Alternatives for Municipal**  
 14.2 **Wastewater Treatment**

12.32 **(j) Wastewater Treatment Process**  
 12.33 **Improvements**

12.34 \$398,000 the second year is from the trust  
 12.35 fund to the Board of Regents of the University  
 12.36 of Minnesota to characterize and quantify  
 13.1 the nutrient-removing microorganisms used  
 13.2 for municipal wastewater treatment, in order  
 13.3 to improve the process used to reduce total  
 13.4 nitrogen discharge. This appropriation is  
 13.5 available until June 30, 2019, by which time  
 13.6 the project must be completed and final  
 13.7 products delivered.

13.8 **(k) Membrane-Based Process for Decentralized**  
 13.9 **Drinking Water Production**

13.10 \$191,000 the second year is from the trust  
 13.11 fund to the Board of Regents of the University  
 13.12 of Minnesota to develop a low-energy use,  
 13.13 membrane-based treatment technology  
 13.14 to produce drinking water locally from  
 13.15 surface waters by removing heavy metals  
 13.16 and contaminants of emerging concern,  
 13.17 including pesticides and pharmaceuticals.  
 13.18 This appropriation is subject to Minnesota  
 13.19 Statutes, section 116P.10. This appropriation  
 13.20 is available until June 30, 2019, by which  
 13.21 time the project must be completed and final  
 13.22 products delivered.

13.23 **(l) Analyzing Alternatives for Municipal**  
 13.24 **Wastewater Treatment**

14.3 \$180,000 the second year is from the trust  
 14.4 fund to the commissioner of the Minnesota  
 14.5 Pollution Control Agency to analyze  
 14.6 alternatives for improved treatment of  
 14.7 sulfate and salty parameters at municipal  
 14.8 wastewater plants to inform the development  
 14.9 and implementation of wild rice, sulfate,  
 14.10 and other water quality standards. This  
 14.11 appropriation is available until June 30,  
 14.12 2019, by which time the project must be  
 14.13 completed and final products delivered.

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

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

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

14.28 \$596,000 the second year is from the  
 14.29 trust fund to the Board of Regents of the  
 14.30 University of Minnesota to continue to  
 14.31 research the potential of recently discovered  
 14.32 microbes from Soudan Iron Mine in  
 14.33 northern Minnesota for removing salts and  
 14.34 metals from groundwater and surface water  
 14.35 resources. This appropriation is subject to  
 15.1 Minnesota Statutes, section 116P.10. This  
 15.2 appropriation is available until June 30,  
 15.3 2019, by which time the project must be  
 15.4 completed and final products delivered.

13.25 \$180,000 the second year is from the trust  
 13.26 fund to the commissioner of the Minnesota  
 13.27 Pollution Control Agency to analyze  
 13.28 alternatives for improved treatment of  
 13.29 sulfate and salty parameters at municipal  
 13.30 wastewater plants to inform the development  
 13.31 and implementation of wild rice, sulfate,  
 13.32 and other water quality standards. This  
 13.33 appropriation is available until June 30,  
 13.34 2019, by which time the project must be  
 13.35 completed and final products delivered.

14.1 **(m) Understanding Impacts of Salt Usage on**  
 14.2 **Minnesota Lakes, Rivers, and Groundwater**

14.3 \$497,000 the second year is from the  
 14.4 trust fund to the Board of Regents of  
 14.5 the University of Minnesota to quantify  
 14.6 the current water-softening salt loads in  
 14.7 Minnesota lakes, rivers, and groundwater,  
 14.8 assess alternative water-softening materials  
 14.9 and methods, and quantify the transport of  
 14.10 de-icing and water-softening salt through the  
 14.11 soil. This appropriation is available until  
 14.12 June 30, 2019, by which time the project must  
 14.13 be completed and final products delivered.

15.5 **(q) Engineered Biofilter for Sulfate and Metal**  
 15.6 **Removal from Mine Waters**

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

15.18 **(r) Developing Biosponge Technology for**  
 15.19 **Removal of Nitrates from Minnesota Waters**

15.20 \$198,000 the second year is from the  
 15.21 trust fund to the Board of Regents of the  
 15.22 University of Minnesota to adapt and test  
 15.23 an inexpensive biosponge technology for  
 15.24 its effectiveness at removing nitrates from  
 15.25 drinking water. This appropriation is subject  
 15.26 to Minnesota Statutes, section 116P.10. This  
 15.27 appropriation is available until June 30,  
 15.28 2019, by which time the project must be  
 15.29 completed and final products delivered.

15.30 **(s) Morrison County Performance Drainage**  
 15.31 **and Hydrology Management**

14.14 **(n) Developing Biosponge Technology for**  
 14.15 **Removal of Nitrates from Minnesota Waters**

14.16 \$198,000 the second year is from the  
 14.17 trust fund to the Board of Regents of the  
 14.18 University of Minnesota to adapt and test  
 14.19 an inexpensive biosponge technology for  
 14.20 its effectiveness at removing nitrates from  
 14.21 drinking water. This appropriation is subject  
 14.22 to Minnesota Statutes, section 116P.10. This  
 14.23 appropriation is available until June 30,  
 14.24 2019, by which time the project must be  
 14.25 completed and final products delivered.

14.26 **(o) Morrison County Performance Drainage**  
 14.27 **and Hydrology Management**

15.32 \$209,000 the second year is from the trust  
 15.33 fund to the commissioner of natural resources  
 15.34 for an agreement with the Morrison Soil  
 15.35 and Water Conservation District to conduct  
 15.36 an assessment of drainage infrastructure,  
 16.1 in order to develop hydrology restoration  
 16.2 priorities and a countywide performance  
 16.3 drainage ordinance to address land  
 16.4 use-change impacts to the hydrogeology.  
 16.5 This appropriation is available until June  
 16.6 30, 2019, by which time the project must be  
 16.7 completed and final products delivered.

16.8 **(t) Agricultural and Urban Runoff Water**  
 16.9 **Quality Treatment Analysis - Phase II**

16.10 \$110,000 the second year is from the  
 16.11 trust fund to the Board of Water and Soil  
 16.12 Resources for an agreement with the Blue  
 16.13 Earth County Drainage Authority to continue  
 16.14 monitoring a model demonstration for  
 16.15 storage and treatment options in drainage  
 16.16 systems designed to improve agricultural and  
 16.17 urban water quality by reducing soil erosion,  
 16.18 peak water flows, and nutrient loading. This  
 16.19 appropriation is available until June 30,  
 16.20 2021, by which time the project must be  
 16.21 completed and final products delivered.

16.22 **(u) Surface Water Bacterial Treatment System**  
 16.23 **Pilot Project**

14.28 \$209,000 the second year is from the trust  
 14.29 fund to the commissioner of natural resources  
 14.30 for an agreement with the Morrison Soil  
 14.31 and Water Conservation District to conduct  
 14.32 an assessment of drainage infrastructure,  
 14.33 in order to develop hydrology restoration  
 14.34 priorities and a countywide performance  
 14.35 drainage ordinance to address land  
 14.36 use-change impacts to the hydrogeology.  
 15.1 This appropriation is available until June  
 15.2 30, 2019, by which time the project must be  
 15.3 completed and final products delivered.

15.4 **(p) Agricultural and Urban Runoff Water**  
 15.5 **Quality Treatment Analysis - Phase II**

15.6 \$110,000 the second year is from the  
 15.7 trust fund to the Board of Water and Soil  
 15.8 Resources for an agreement with the Blue  
 15.9 Earth County Drainage Authority to continue  
 15.10 monitoring a model demonstration for  
 15.11 storage and treatment options in drainage  
 15.12 systems designed to improve agricultural and  
 15.13 urban water quality by reducing soil erosion,  
 15.14 peak water flows, and nutrient loading. This  
 15.15 appropriation is available until June 30,  
 15.16 2021, by which time the project must be  
 15.17 completed and final products delivered.

15.18 **(q) Surface Water Bacterial Treatment System**  
 15.19 **Pilot Project**

16.24 \$500,000 the second year is from the trust  
 16.25 fund to the commissioner of natural resources  
 16.26 for an agreement with Vadnais Lake Area  
 16.27 Water Management Organization to reduce  
 16.28 bacteria and nutrient loads to Vadnais  
 16.29 Lake, a drinking water supply reservoir,  
 16.30 through implementation and evaluation  
 16.31 of a subsurface constructed wetland as a  
 16.32 best management practice for potential  
 16.33 statewide use. The Vadnais Lake Area Water  
 16.34 Management Organization must consider  
 16.35 contracting with the University of Minnesota  
 16.36 Department of Civil, Environmental,  
 17.1 and Geo-Engineering to evaluate the  
 17.2 effectiveness of the pilot treatment system  
 17.3 so that it maximizes benefits and can be  
 17.4 replicated elsewhere. This appropriation  
 17.5 is available until June 30, 2021, by which  
 17.6 time the project must be completed and final  
 17.7 products delivered.

17.8 **(v) Assessing Effectiveness of Wetland**  
 17.9 **Restorations for Improved Water Quality**

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

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

15.20 \$500,000 the second year is from the trust  
 15.21 fund to the commissioner of natural resources  
 15.22 for an agreement with Vadnais Lake Area  
 15.23 Water Management Organization to reduce  
 15.24 bacteria and nutrient loads to Vadnais  
 15.25 Lake, a drinking water supply reservoir,  
 15.26 through implementation and evaluation  
 15.27 of a subsurface constructed wetland as a  
 15.28 best management practice for potential  
 15.29 statewide use. The Vadnais Lake Area Water  
 15.30 Management Organization must consider  
 15.31 contracting with the University of Minnesota  
 15.32 Department of Civil, Environmental,  
 15.33 and Geo-Engineering to evaluate the  
 15.34 effectiveness of the pilot treatment system  
 15.35 so that it maximizes benefits and can be  
 15.36 replicated elsewhere. This appropriation  
 16.1 is available until June 30, 2021, by which  
 16.2 time the project must be completed and final  
 16.3 products delivered.

16.4 **(r) Assessing Effectiveness of Wetland**  
 16.5 **Restorations for Improved Water Quality**

16.6 \$420,000 the second year is from the trust  
 16.7 fund to the Board of Regents of the University  
 16.8 of Minnesota to quantify the environmental  
 16.9 benefits of sediment removal and native  
 16.10 plant communities in wetland restorations by  
 16.11 measuring resulting reductions in nitrogen  
 16.12 and phosphorus delivery to groundwater and  
 16.13 surface water. This appropriation is available  
 16.14 until June 30, 2019, by which time the  
 16.15 project must be completed and final products  
 16.16 delivered.

17.24 \$300,000 the second year is from the  
 17.25 trust fund to the Board of Regents of the  
 17.26 University of Minnesota to determine the  
 17.27 effects of increased temperatures on the  
 17.28 release of mercury and sulfur from Minnesota  
 17.29 peatlands in order to help predict impacts  
 17.30 on aquatic ecosystems and fish health. This  
 17.31 appropriation is available until June 30,  
 17.32 2019, by which time the project must be  
 17.33 completed and final products delivered.

17.34 **(x) Integrated Targeted Watershed Planning**  
 17.35 **Tools with Citizen Involvement**

18.1 \$169,000 the second year is from the  
 18.2 trust fund to the Board of Trustees of the  
 18.3 Minnesota State Colleges and Universities  
 18.4 system for the Water Resources Center  
 18.5 at Minnesota State University, Mankato,  
 18.6 to use geographic information system  
 18.7 (GIS) prioritization and modeling tools  
 18.8 to develop pollution reduction strategies  
 18.9 in five priority subwatersheds in the Le  
 18.10 Sueur River watershed and to promote  
 18.11 implementation of the reduction strategies  
 18.12 through citizen involvement and outreach.  
 18.13 This appropriation is available until June  
 18.14 30, 2019, by which time the project must be  
 18.15 completed and final products delivered.

18.16 **(y) Roseau Lake Watershed Targeted Water**  
 18.17 **Quality Improvement**

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

16.17 **(s) Integrated Targeted Watershed Planning**  
 16.18 **Tools with Citizen Involvement**

16.19 \$169,000 the second year is from the  
 16.20 trust fund to the Board of Trustees of the  
 16.21 Minnesota State Colleges and Universities  
 16.22 system for the Water Resources Center  
 16.23 at Minnesota State University, Mankato,  
 16.24 to use geographic information system  
 16.25 (GIS) prioritization and modeling tools  
 16.26 to develop pollution reduction strategies  
 16.27 in five priority subwatersheds in the Le  
 16.28 Sueur River watershed and to promote  
 16.29 implementation of the reduction strategies  
 16.30 through citizen involvement and outreach.  
 16.31 This appropriation is available until June  
 16.32 30, 2019, by which time the project must be  
 16.33 completed and final products delivered.

16.34 **(t) Roseau Lake Watershed Targeted Water**  
 16.35 **Quality Improvement**

17.1 \$65,000 the second year is from the  
 17.2 trust fund to the commissioner of natural  
 17.3 resources to develop targeted water quality  
 17.4 improvements for the Roseau Lake watershed  
 17.5 by coordinating with partner agencies to  
 17.6 identify the top priority field scale best  
 17.7 management and conservation practices to  
 17.8 implement in the region.

18.26 Subd. 5. Environmental Education -0- 2,562,000

18.27 (a) Minnesota Conservation Apprentice  
18.28 Academy

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

19.5 (b) School Forests Outdoor Classrooms

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

19.18 (c) Youth-Led Sustainability Projects in 50  
19.19 Minnesota Communities - Phase III

17.9 Subd. 5. Environmental Education -0- 2,512,000

17.10 (a) Minnesota Conservation Apprentice  
17.11 Academy

17.12 \$433,000 the second year is from the  
17.13 trust fund to the Board of Water and Soil  
17.14 Resources in cooperation with Conservation  
17.15 Corps Minnesota and Iowa for the final  
17.16 phase of a program to train and mentor future  
17.17 conservation professionals by providing  
17.18 apprenticeship service opportunities with  
17.19 local soil and water conservation districts in  
17.20 Minnesota. This appropriation is available  
17.21 until June 30, 2019, by which time the  
17.22 project must be completed and final products  
17.23 delivered.

17.24 (b) School Forests Outdoor Classrooms

17.25 \$440,000 the second year is from the trust  
17.26 fund to the commissioner of natural resources  
17.27 for an agreement with Conservation Corps  
17.28 Minnesota and Iowa to renovate and restore  
17.29 60 school forests. This appropriation is  
17.30 available until June 30, 2019, by which time  
17.31 the project must be completed and final  
17.32 products delivered.

17.33 (c) Youth-Led Sustainability Projects in 50  
17.34 Minnesota Communities - Phase III

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

19.29 **(d) New Prairie Sportsman Statewide**  
 19.30 **Broadcast Video Project**

19.31 \$300,000 the second year is from the  
 19.32 trust fund to the commissioner of natural  
 19.33 resources for an agreement with Pioneer  
 19.34 Public Television to provide outreach on  
 19.35 outdoor recreation, conservation, and natural  
 20.1 resource issues, including water quality,  
 20.2 wildlife habitat, and invasive species,  
 20.3 through a series of interrelated public  
 20.4 forums, educational and training videos, and  
 20.5 statewide broadcast television programs.  
 20.6 This appropriation is available until June  
 20.7 30, 2019, by which time the project must be  
 20.8 completed and final products delivered.

20.9 **(e) Workshops and Outreach for Nontoxic**  
 20.10 **Ammunition Alternatives**

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

18.1 \$400,000 the second year is from the  
 18.2 trust fund to the commissioner of natural  
 18.3 resources for an agreement with Prairie  
 18.4 Woods Environmental Learning Center to  
 18.5 expand the Youth Energy Summit (YES!)  
 18.6 program statewide to complete more than  
 18.7 200 new youth-led climate change mitigation  
 18.8 and adaptation projects in over 50 Minnesota  
 18.9 communities.

20.24 left in the field.

20.25 **(f) Wildlife and Habitat Conservation**  
 20.26 **Education for Southwest Minnesota High**  
 20.27 **Schools**

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

21.1 **(g) Standards-Based Dakota Indian Land**  
 21.2 **Stewardship Education**

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

21.15 **(h) Wolf Management Education in the**  
 21.16 **Classroom - Phase II**

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

18.10 **(d) Wildlife and Habitat Conservation**  
 18.11 **Education for Southwest Minnesota High**  
 18.12 **Schools**

18.13 \$147,000 the second year is from the trust  
 18.14 fund to the Minnesota Zoological Garden  
 18.15 to engage high school students in critical  
 18.16 prairie wildlife and habitat conservation  
 18.17 projects by using the zoo's unique animal  
 18.18 collections and state-of-the-art technology to  
 18.19 deliver hands-on learning in 12 southwestern  
 18.20 Minnesota high schools.

18.21 **(e) Standards-Based Dakota Indian Land**  
 18.22 **Stewardship Education**

18.23 \$197,000 the second year is from the trust  
 18.24 fund to the commissioner of natural resources  
 18.25 for an agreement with Dakota Wicohan  
 18.26 to enhance the capacity of approximately  
 18.27 1,250 students to be stewards of the land in  
 18.28 Minnesota by learning about Dakota Indian  
 18.29 values and environmental principles through  
 18.30 a standards-based experiential multimedia  
 18.31 curriculum. This appropriation is available  
 18.32 until June 30, 2019, by which time the  
 18.33 project must be completed and final products  
 18.34 delivered.

18.35 **(f) Wolf Management Education in the**  
 18.36 **Classroom - Phase II**

19.1 \$240,000 the second year is from the trust  
 19.2 fund to the commissioner of natural resources  
 19.3 for an agreement with the International  
 19.4 Wolf Center to expand the Wolves at Our  
 19.5 Door classroom education program to  
 19.6 assist students in understanding wolves and  
 19.7 associated management issues.

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

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

22.1 **(j) Promoting Water Quality Stewardship**  
 22.2 **through Student Mentoring and River**  
 22.3 **Monitoring**

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

22.12 **(k) Analysis of Thermally Modified Wood**  
 22.13 **Nesting Boxes for Birds**

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

**19.8 (g) Master Water Steward Program Expansion**

19.9 \$116,000 the second year is from the trust  
 19.10 fund to the commissioner of natural resources  
 19.11 for an agreement with the Freshwater Society  
 19.12 to train community volunteers as master  
 19.13 water stewards who will work with  
 19.14 neighborhoods to install water management  
 19.15 projects that preserve and restore water  
 19.16 quality. This appropriation is available until  
 19.17 June 30, 2019, by which time the project must  
 19.18 be completed and final products delivered.

19.19 **(h) Promoting Water Quality Stewardship**  
 19.20 **through Student Mentoring and River**  
 19.21 **Monitoring**

19.22 \$39,000 the second year is from the trust  
 19.23 fund to the commissioner of natural resources  
 19.24 for an agreement with Southwest Minnesota  
 19.25 State University to partner with area schools  
 19.26 to deliver inquiry-based, hands-on learning  
 19.27 and mentoring on water quality stewardship  
 19.28 between university agriculture students and  
 19.29 high school and middle school students.

22.26 Subd. 6. **Aquatic and Terrestrial Invasive**  
 22.27 **Species** -0- 5,860,000

22.28 (a) **Minnesota Invasive Terrestrial Plants and**  
 22.29 **Pests Center - Phase III**

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

23.6 (b) **Developing Membrane Filtration System to**  
 23.7 **Treat Lake Superior Ballast Water**

19.30 (i) **Wildlife Science Center**

19.31 \$500,000 the second year is from the trust  
 19.32 fund to the commissioner of natural resources  
 19.33 for an agreement with the Wildlife Science  
 19.34 Center to provide environmental education  
 19.35 programs using ambassador wild animals.

20.1 Subd. 6. **Aquatic and Terrestrial Invasive**  
 20.2 **Species** -0- 5,660,000

20.3 (a) **Minnesota Invasive Terrestrial Plants and**  
 20.4 **Pests Center - Phase III**

20.5 \$3,750,000 the second year is from the  
 20.6 trust fund to the Board of Regents of the  
 20.7 University of Minnesota for the Invasive  
 20.8 Terrestrial Plants and Pests Center to conduct  
 20.9 research to prevent, minimize, and mitigate  
 20.10 the threats and impacts posed by terrestrial  
 20.11 invasive plants, pathogens, and pests to  
 20.12 the state's prairies, forests, wetlands, and  
 20.13 agricultural resources. This appropriation  
 20.14 is available until June 30, 2023, by which  
 20.15 time the project must be completed and final  
 20.16 products delivered.

20.17 (b) **Developing Membrane Filtration System to**  
 20.18 **Treat Lake Superior Ballast Water**

23.8 \$151,000 the second year is from the trust  
 23.9 fund to the Board of Regents of the University  
 23.10 of Minnesota to develop a filtration system  
 23.11 utilizing bioactive membrane technologies  
 23.12 for use in treating Lake Superior ballast  
 23.13 water to remove at least 90 percent of  
 23.14 suspended pathogens, invasive species, and  
 23.15 contaminants. This appropriation is subject  
 23.16 to Minnesota Statutes, section 116P.10. This  
 23.17 appropriation is available until June 30,  
 23.18 2019, by which time the project must be  
 23.19 completed and final products delivered.

23.20 **(c) Advancing Microbial Invasive Species**  
 23.21 **Monitoring from Ballast Discharge**

23.22 \$368,000 the second year is from the  
 23.23 trust fund to the Board of Regents of  
 23.24 the University of Minnesota to identify  
 23.25 bacteria in ship ballast water and St. Louis  
 23.26 River estuary sediments, assess the risks  
 23.27 posed by invasive bacteria, and evaluate  
 23.28 treatment techniques for effectiveness at  
 23.29 removing the bacteria from ballast water.  
 23.30 This appropriation is available until June  
 23.31 30, 2019, by which time the project must be  
 23.32 completed and final products delivered.

23.33 **(d) Biological Control of White Nose Syndrome**  
 23.34 **in Bats - Phase II**

23.35 \$452,000 the second year is from the  
 23.36 trust fund to the Board of Regents of the  
 24.1 University of Minnesota to continue research  
 24.2 to identify, develop, and optimize biocontrol  
 24.3 agents for white nose syndrome in bats by  
 24.4 evaluating the biocontrol effectiveness of  
 24.5 microbes collected at additional hibernacula  
 24.6 throughout the state and conducting baseline  
 24.7 characterization of the total bat microbiomes.  
 24.8 This appropriation is available until June  
 24.9 30, 2019, by which time the project must be  
 24.10 completed and final products delivered.

20.19 \$151,000 the second year is from the trust  
 20.20 fund to the Board of Regents of the University  
 20.21 of Minnesota to develop a filtration system  
 20.22 utilizing bioactive membrane technologies  
 20.23 for use in treating Lake Superior ballast  
 20.24 water to remove at least 90 percent of  
 20.25 suspended pathogens, invasive species, and  
 20.26 contaminants. This appropriation is subject  
 20.27 to Minnesota Statutes, section 116P.10. This  
 20.28 appropriation is available until June 30,  
 20.29 2019, by which time the project must be  
 20.30 completed and final products delivered.

20.31 **(c) Advancing Microbial Invasive Species**  
 20.32 **Monitoring from Ballast Discharge**

20.33 \$368,000 the second year is from the  
 20.34 trust fund to the Board of Regents of  
 20.35 the University of Minnesota to identify  
 20.36 bacteria in ship ballast water and St. Louis  
 21.1 River estuary sediments, assess the risks  
 21.2 posed by invasive bacteria, and evaluate  
 21.3 treatment techniques for effectiveness at  
 21.4 removing the bacteria from ballast water.  
 21.5 This appropriation is available until June  
 21.6 30, 2019, by which time the project must be  
 21.7 completed and final products delivered.

21.8 **(d) Biological Control of White Nose Syndrome**  
 21.9 **in Bats - Phase II**

21.10 \$452,000 the second year is from the  
 21.11 trust fund to the Board of Regents of the  
 21.12 University of Minnesota to continue research  
 21.13 to identify, develop, and optimize biocontrol  
 21.14 agents for white nose syndrome in bats by  
 21.15 evaluating the biocontrol effectiveness of  
 21.16 microbes collected at additional hibernacula  
 21.17 throughout the state and conducting baseline  
 21.18 characterization of the total bat microbiomes.  
 21.19 This appropriation is available until June  
 21.20 30, 2019, by which time the project must be  
 21.21 completed and final products delivered.

24.11 **(e) Elimination of Target Invasive Plant Species**  
 24.12 **- Phase II**

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

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

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

24.34 **(g) Invasive Carp Management Research in**  
 24.35 **Lake Nokomis Subwatershed**

25.1 \$189,000 the second year is from the  
 25.2 trust fund to the commissioner of natural  
 25.3 resources for an agreement with the  
 25.4 Minneapolis Park and Recreation Board to  
 25.5 apply current invasive carp management  
 25.6 research to the entire Lake Nokomis  
 25.7 subwatershed and provide demonstration  
 25.8 guidance for large-scale carp management.  
 25.9 This appropriation is available until June  
 25.10 30, 2020, by which time the project must be  
 25.11 completed and final products delivered.

21.22 **(e) Elimination of Target Invasive Plant Species**  
 21.23 **- Phase II**

21.24 \$750,000 the second year is from the trust  
 21.25 fund. Of this amount, \$511,000 is to the  
 21.26 commissioner of agriculture and \$239,000  
 21.27 is to the Board of Regents of the University  
 21.28 of Minnesota to train volunteers and  
 21.29 professionals to find, control, and monitor  
 21.30 targeted newly emergent invasive plant  
 21.31 species. This appropriation is available until  
 21.32 June 30, 2019, by which time the project must  
 21.33 be completed and final products delivered.

21.34 **(f) Invasive Carp Management Research in**  
 21.35 **Lake Nokomis Subwatershed**

22.1 \$189,000 the second year is from the  
 22.2 trust fund to the commissioner of natural  
 22.3 resources for an agreement with the  
 22.4 Minneapolis Park and Recreation Board to  
 22.5 apply current invasive carp management  
 22.6 research to the entire Lake Nokomis  
 22.7 subwatershed and provide demonstration  
 22.8 guidance for large-scale carp management.  
 22.9 This appropriation is available until June  
 22.10 30, 2020, by which time the project must be  
 22.11 completed and final products delivered.

25.12 Subd. 7. **Air Quality, Climate Change, and**  
 25.13 **Renewable Energy** -0- 3,889,000

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

25.15 \$388,000 the second year is from the  
 25.16 trust fund to the Board of Regents of  
 25.17 the University of Minnesota to develop  
 25.18 inexpensive, high-efficiency solar energy by  
 25.19 simple roll-to-roll advanced manufacturing  
 25.20 technology, using Perovskite, a new  
 25.21 photovoltaic material. This appropriation  
 25.22 is subject to Minnesota Statutes, section  
 25.23 116P.10. This appropriation is available until  
 25.24 June 30, 2019, by which time the project must  
 25.25 be completed and final products delivered.

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

25.27 \$490,000 the second year is from the trust  
 25.28 fund to the commissioner of natural resources  
 25.29 for an agreement with Rural Renewable  
 25.30 Energy Alliance to install a 200-kilowatt  
 25.31 community solar garden to provide for  
 25.32 electrical distribution in Cass, Beltrami,  
 25.33 Hubbard, and Itasca Counties, to assist  
 25.34 households in the Minnesota low-income  
 25.35 housing energy assistance program in  
 26.1 meeting electrical energy needs and serve as  
 26.2 a model for low-income energy assistance  
 26.3 elsewhere in the state. This appropriation is  
 26.4 not subject to Minnesota Statutes, section  
 26.5 116P.10.

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

22.12 Subd. 7. **Air Quality, Climate Change, and**  
 22.13 **Renewable Energy** -0- 1,490,000

22.14 (a) **Community Solar Garden Installation**

22.15 \$490,000 the second year is from the trust  
 22.16 fund to the commissioner of natural resources  
 22.17 for an agreement with Rural Renewable  
 22.18 Energy Alliance to install a 200-kilowatt  
 22.19 community solar garden to provide for  
 22.20 electrical distribution in Cass, Beltrami,  
 22.21 Hubbard, and Itasca Counties, to assist  
 22.22 households in the Minnesota low-income  
 22.23 housing energy assistance program in  
 22.24 meeting electrical energy needs and serve as  
 22.25 a model for low-income energy assistance  
 22.26 elsewhere in the state. This appropriation is  
 22.27 not subject to Minnesota Statutes, section  
 22.28 116P.10.

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

26.18 **(d) Geotargeted Distributed Clean Energy**  
 26.19 **Initiative**

26.20 \$800,000 the second year is from the trust  
 26.21 fund to the commissioner of natural resources  
 26.22 for an agreement with the Center for Energy  
 26.23 and Environment. Of this amount, up to  
 26.24 \$600,000 is for analysis of community  
 26.25 distributed clean energy investments as  
 26.26 alternatives to utility transmission and  
 26.27 distribution upgrade capital investments  
 26.28 to meet forecasted electrical loads. Up  
 26.29 to \$200,000 is to conduct pilot programs  
 26.30 using energy efficiency and other distributed  
 26.31 energy resources to achieve forecasted  
 26.32 electric energy loads in communities and  
 26.33 is contingent on a \$200,000 match of an  
 26.34 equal or greater amount of nonstate money.  
 26.35 This appropriation is available until June  
 27.1 30, 2019, by which time the project must be  
 27.2 completed and final products delivered.

27.3 **(e) Waste Heat Recovery with Efficient**  
 27.4 **Thermoelectric Energy Generators**

22.29 **(b) Waste Heat Recovery with Efficient**  
 22.30 **Thermoelectric Energy Generators**

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

27.17 **(f) Hydrogen Fuel from Wind-Produced**  
 27.18 **Renewable Ammonia**

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

27.31 **(g) Utilization of Dairy Farm Wastewater for**  
 27.32 **Sustainable Production**

22.31 \$400,000 the second year is from the  
 22.32 trust fund to the Board of Regents of  
 22.33 the University of Minnesota to develop  
 22.34 thermoelectric energy generators using  
 22.35 advanced, high-performance materials able  
 22.36 to more efficiently capture waste heat and  
 23.1 transform the heat into electricity. This  
 23.2 appropriation is subject to Minnesota  
 23.3 Statutes, section 116P.10. This appropriation  
 23.4 is available until June 30, 2019, by which  
 23.5 time the project must be completed and final  
 23.6 products delivered.

23.7 **(c) Utilization of Dairy Farm Wastewater for**  
 23.8 **Sustainable Production**

27.33 \$500,000 the second year is from the trust  
 27.34 fund to the Board of Regents of the University  
 27.35 of Minnesota for the West Central Research  
 27.36 and Outreach Center in Morris to develop and  
 28.1 evaluate an integrated system that recycles  
 28.2 and uses nutrients in dairy wastewater  
 28.3 from feedlots and milk processing, thereby  
 28.4 reducing nutrients from agricultural runoff,  
 28.5 and to provide outreach on adoption of new  
 28.6 technologies. This appropriation is subject  
 28.7 to Minnesota Statutes, section 116P.10. This  
 28.8 appropriation is available until June 30,  
 28.9 2019, by which time the project must be  
 28.10 completed and final products delivered.

28.11 **(h) Solar Energy Utilization for Minnesota**  
 28.12 **Swine Farms - Phase II**

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

28.25 **Subd. 8. Methods to Protect, Restore, and**  
 28.26 **Enhance Land, Water, and Habitat**

-0- 4,515,000

28.27 **(a) Bee Pollinator Habitat Enhancement -**  
 28.28 **Phase II**

23.9 \$300,000 the second year is from the trust  
 23.10 fund to the Board of Regents of the University  
 23.11 of Minnesota for the West Central Research  
 23.12 and Outreach Center in Morris to develop and  
 23.13 evaluate an integrated system that recycles  
 23.14 and uses nutrients in dairy wastewater  
 23.15 from feedlots and milk processing, thereby  
 23.16 reducing nutrients from agricultural runoff,  
 23.17 and to provide outreach on adoption of new  
 23.18 technologies. This appropriation is subject  
 23.19 to Minnesota Statutes, section 116P.10. This  
 23.20 appropriation is available until June 30,  
 23.21 2019, by which time the project must be  
 23.22 completed and final products delivered.

23.23 **(d) Solar Energy Utilization for Minnesota**  
 23.24 **Swine Farms - Phase II**

23.25 \$300,000 the second year is from the trust  
 23.26 fund to the Board of Regents of the University  
 23.27 of Minnesota for the West Central Research  
 23.28 and Outreach Center in Morris to continue to  
 23.29 develop and evaluate the utilization of solar  
 23.30 photovoltaic systems at swine facilities to  
 23.31 improve energy and economic performance,  
 23.32 reduce fossil fuel usage and emissions, and  
 23.33 optimize water usage. This appropriation  
 23.34 is available until June 30, 2019, by which  
 23.35 time the project must be completed and final  
 23.36 products delivered.

24.1 **Subd. 8. Methods to Protect, Restore, and**  
 24.2 **Enhance Land, Water, and Habitat**

-0- 8,373,000

24.3 **(a) Bee Pollinator Habitat Enhancement -**  
 24.4 **Phase II**

28.29 \$387,000 the second year is from the trust  
 28.30 fund to the Board of Regents of the University  
 28.31 of Minnesota to continue assessment of the  
 28.32 potential to supplement traditional turf grass  
 28.33 by providing critical floral plant resources  
 28.34 to enhance bee pollinator habitat. Plant  
 28.35 materials and seeds must follow the Board of  
 28.36 Water and Soil Resources' native vegetation  
 29.1 establishment and enhancement guidelines.  
 29.2 This appropriation is available until June  
 29.3 30, 2019, by which time the project must be  
 29.4 completed and final products delivered.

29.5 **(b) Measuring Pollen and Seed Dispersal for**  
 29.6 **Prairie Fragment Connectivity**

29.7 \$556,000 the second year is from the  
 29.8 trust fund to the Board of Regents of the  
 29.9 University of Minnesota to determine  
 29.10 habitat connectivity between prairie  
 29.11 fragments by measuring plant movement  
 29.12 by dispersal of pollen and seeds to improve  
 29.13 prairie restoration implementation. This  
 29.14 appropriation is available until June 30,  
 29.15 2019, by which time the project must be  
 29.16 completed and final products delivered.

29.17 **(c) Establishment of Permanent Habitat Strips**  
 29.18 **Within Row Crops**

29.19 \$179,000 the second year is from the trust  
 29.20 fund to the Science Museum of Minnesota  
 29.21 for the St. Croix Watershed Research Station  
 29.22 to research the viability of establishing  
 29.23 prairie forbs and alfalfa as permanent cover  
 29.24 strips in the bare soil between selected rows  
 29.25 of corn and soybeans as potential pollinator,  
 29.26 monarch, and gamebird habitat. Monitoring  
 29.27 of the native plant strips must evaluate the  
 29.28 effects of pesticides from adjacent crops on  
 29.29 pollinators, including determining whether  
 29.30 there is a reduction of pollinators that results  
 29.31 in reduced setting of seeds on the native

24.5 \$387,000 the second year is from the trust  
 24.6 fund to the Board of Regents of the University  
 24.7 of Minnesota to continue assessment of the  
 24.8 potential to supplement traditional turf grass  
 24.9 by providing critical floral plant resources  
 24.10 to enhance bee pollinator habitat. Plant  
 24.11 materials and seeds must follow the Board of  
 24.12 Water and Soil Resources' native vegetation  
 24.13 establishment and enhancement guidelines.  
 24.14 This appropriation is available until June  
 24.15 30, 2019, by which time the project must be  
 24.16 completed and final products delivered.

24.17 **(b) Establishment of Permanent Habitat Strips**  
 24.18 **Within Row Crops**

24.19 \$179,000 the second year is from the trust  
 24.20 fund to the Science Museum of Minnesota  
 24.21 for the St. Croix Watershed Research Station  
 24.22 to research the viability of establishing  
 24.23 prairie forbs and alfalfa as permanent cover  
 24.24 strips in the bare soil between selected rows  
 24.25 of corn and soybeans as potential pollinator,  
 24.26 monarch, and gamebird habitat. Monitoring  
 24.27 of the native plant strips must evaluate the  
 24.28 effects of pesticides from adjacent crops on  
 24.29 pollinators, including determining whether  
 24.30 there is a reduction of pollinators that results  
 24.31 in reduced setting of seeds on the native

29.32 plants. This appropriation is available until  
 29.33 June 30, 2019, by which time the project must  
 29.34 be completed and final products delivered.

30.1 **(d) Evaluate Prescribed Burning Techniques to**  
 30.2 **Improve Habitat Management for Brushland**  
 30.3 **Species**

30.4 \$267,000 the second year is from the trust  
 30.5 fund to the Board of Regents of the University  
 30.6 of Minnesota to compare the effects on  
 30.7 brushland habitat of conducting prescribed  
 30.8 burning in spring, summer, and fall to  
 30.9 provide improved management guidelines  
 30.10 for wildlife habitat. This appropriation is  
 30.11 available until June 30, 2020, by which time  
 30.12 the project must be completed and final  
 30.13 products delivered.

30.14 **(e) Controlling Reed Canary Grass to**  
 30.15 **Regenerate Floodplain Forest**

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

30.27 **(f) Forest Management for Mississippi River**  
 30.28 **Drinking Water Protection**

24.32 plants. This appropriation is available until  
 24.33 June 30, 2019, by which time the project must  
 24.34 be completed and final products delivered.

25.1 **(c) Evaluate Prescribed Burning Techniques to**  
 25.2 **Improve Habitat Management for Brushland**  
 25.3 **Species**

25.4 \$267,000 the second year is from the trust  
 25.5 fund to the Board of Regents of the University  
 25.6 of Minnesota to compare the effects on  
 25.7 brushland habitat of conducting prescribed  
 25.8 burning in spring, summer, and fall to  
 25.9 provide improved management guidelines  
 25.10 for wildlife habitat. This appropriation is  
 25.11 available until June 30, 2020, by which time  
 25.12 the project must be completed and final  
 25.13 products delivered.

25.14 **(d) Controlling Reed Canary Grass to**  
 25.15 **Regenerate Floodplain Forest**

25.16 \$218,000 the second year is from the trust  
 25.17 fund to the commissioner of natural resources  
 25.18 for an agreement with the Minnesota state  
 25.19 office of the National Audubon Society to  
 25.20 determine the most effective regeneration  
 25.21 methods for restoration of floodplain forests  
 25.22 in southeast Minnesota impacted by invasive  
 25.23 reed canary grass. This appropriation is  
 25.24 available until June 30, 2019, by which time  
 25.25 the project must be completed and final  
 25.26 products delivered.

25.27 **(e) Forest Management for Mississippi River**  
 25.28 **Drinking Water Protection**

30.29 \$300,000 the second year is from the trust  
 30.30 fund to the commissioner of natural resources  
 30.31 for an agreement with the Crow Wing Soil  
 30.32 and Water Conservation District to pilot a  
 30.33 water protection approach for the watershed  
 30.34 through development of forest stewardship  
 30.35 plans and targeted riparian forest restoration  
 30.36 projects. Any expenditures from this  
 31.1 appropriation spent on forest management  
 31.2 plans or restoration must be for lands with  
 31.3 a long-term contract commitment for forest  
 31.4 conservation, and the restoration must follow  
 31.5 the Board of Water and Soil Resources' native  
 31.6 vegetation establishment and enhancement  
 31.7 guidelines. This appropriation is available  
 31.8 until June 30, 2019, by which time the  
 31.9 project must be completed and final products  
 31.10 delivered.

31.11 **(g) Upland, Wetland, and Shoreline Restoration**  
 31.12 **in Greater Metropolitan Area**

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

25.29 \$300,000 the second year is from the trust  
 25.30 fund to the commissioner of natural resources  
 25.31 for an agreement with the Crow Wing Soil  
 25.32 and Water Conservation District to pilot a  
 25.33 water protection approach for the watershed  
 25.34 through development of forest stewardship  
 25.35 plans and targeted riparian forest restoration  
 25.36 projects. Any expenditures from this  
 26.1 appropriation spent on forest management  
 26.2 plans or restoration must be for lands with  
 26.3 a long-term contract commitment for forest  
 26.4 conservation, and the restoration must follow  
 26.5 the Board of Water and Soil Resources' native  
 26.6 vegetation establishment and enhancement  
 26.7 guidelines. This appropriation is available  
 26.8 until June 30, 2019, by which time the  
 26.9 project must be completed and final products  
 26.10 delivered.

26.11 **(f) Upland, Wetland, and Shoreline Restoration**  
 26.12 **in Greater Metropolitan Area**

26.13 \$509,000 the second year is from the  
 26.14 trust fund to the commissioner of natural  
 26.15 resources for an agreement with Great River  
 26.16 Greening to restore approximately 150 acres  
 26.17 of forest, prairie, woodland, and wetland  
 26.18 and 0.15 miles of shoreline throughout  
 26.19 the greater Twin Cities metropolitan area,  
 26.20 using volunteers, and to conduct restoration  
 26.21 evaluation on previously restored parcels. A  
 26.22 list of proposed restorations and evaluations  
 26.23 must be provided as part of the required work  
 26.24 plan. Plant and seed materials must follow  
 26.25 the Board of Water and Soil Resources' native  
 26.26 vegetation establishment and enhancement  
 26.27 guidelines. This appropriation is available  
 26.28 until June 30, 2019, by which time the  
 26.29 project must be completed and final products  
 26.30 delivered.

31.31 **(h) Bluffland Restoration and Monitoring in**  
 31.32 **Winona**

31.33 \$99,000 the second year is from the trust fund  
 31.34 to the Board of Trustees of the Minnesota  
 31.35 State Colleges and Universities system  
 31.36 for Winona State University to inventory,  
 32.1 restore, and monitor the 40-acre Garvin  
 32.2 Heights Natural Area in Winona and provide  
 32.3 related public outreach and education. Plant  
 32.4 and seed materials must follow the Board of  
 32.5 Water and Soil Resources' native vegetation  
 32.6 establishment and enhancement guidelines.  
 32.7 This appropriation is available until June  
 32.8 30, 2019, by which time the project must be  
 32.9 completed and final products delivered.

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

32.11 \$2,000,000 the second year is from the  
 32.12 trust fund to the commissioner of natural  
 32.13 resources for an agreement with the city  
 32.14 of Champlin to restore the Champlin Mill  
 32.15 Pond shoreline and adjacent habitat. Plant  
 32.16 and seed materials must follow the Board of  
 32.17 Water and Soil Resources' native vegetation  
 32.18 establishment and enhancement guidelines.  
 32.19 This appropriation is available until June  
 32.20 30, 2019, by which time the project must be  
 32.21 completed and final products delivered.

26.31 **(g) Bluffland Restoration and Monitoring in**  
 26.32 **Winona**

26.33 \$99,000 the second year is from the trust fund  
 26.34 to the Board of Trustees of the Minnesota  
 26.35 State Colleges and Universities system  
 26.36 for Winona State University to inventory,  
 27.1 restore, and monitor the 40-acre Garvin  
 27.2 Heights Natural Area in Winona and provide  
 27.3 related public outreach and education. Plant  
 27.4 and seed materials must follow the Board of  
 27.5 Water and Soil Resources' native vegetation  
 27.6 establishment and enhancement guidelines.  
 27.7 This appropriation is available until June  
 27.8 30, 2019, by which time the project must be  
 27.9 completed and final products delivered.

27.10 **(h) Champlin Mill Pond Shoreland Restoration**

27.11 \$2,000,000 the second year is from the  
 27.12 trust fund to the commissioner of natural  
 27.13 resources for an agreement with the city  
 27.14 of Champlin to restore the Champlin Mill  
 27.15 Pond shoreline and adjacent habitat. Plant  
 27.16 and seed materials must follow the Board of  
 27.17 Water and Soil Resources' native vegetation  
 27.18 establishment and enhancement guidelines.  
 27.19 This appropriation is available until June  
 27.20 30, 2019, by which time the project must be  
 27.21 completed and final products delivered.

27.22 **(i) Reinvest In Minnesota (RIM)**

27.23 \$2,214,000 the second year is from the  
 27.24 trust fund to the Board of Water and Soil  
 27.25 Resources to acquire permanent conservation  
 27.26 easements and restore wetlands and  
 27.27 associated upland habitat under Minnesota  
 27.28 Statutes, section 103F.515.

27.29 **(j) Pollinator Highway Demonstration Projects**

27.30 \$2,200,000 the second year is from the trust  
 27.31 fund to the commissioner of transportation  
 27.32 to restore and enhance wildlife habitat along  
 27.33 trunk highways, including: marked Interstate  
 27.34 Highway 35, one north and one south of  
 28.1 the metropolitan area; marked Interstate  
 28.2 Highway 90; and two locations along marked  
 28.3 Interstate Highway 94. Of this amount,  
 28.4 up to \$25,000 may be used to monitor  
 28.5 and study the effects of different levels of  
 28.6 native plant diversity on roadside pollinators  
 28.7 and the timing of mowing on pollinator  
 28.8 abundance and diversity. The commissioner  
 28.9 must submit a report to the chairs and  
 28.10 ranking minority members of the house of  
 28.11 representatives and senate committees and  
 28.12 divisions with jurisdiction over transportation  
 28.13 and environment and natural resources by  
 28.14 January 15, 2017. This appropriation is  
 28.15 available until June 30, 2022, and must  
 28.16 include a five-year restoration process. This  
 28.17 appropriation is not subject to Minnesota  
 28.18 Statutes, sections 116P.05, subdivision 2,  
 28.19 paragraph (b), and 116P.09, subdivision 4.

32.22 Subd. 9. Land Acquisition, Habitat, and

32.23 Recreation

-0-

12,624,000

28.20 Subd. 9. Land Acquisition, Habitat, and

28.21 Recreation

-0-

8,065,000

32.24 (a) State Parks and Trails Land Acquisition

32.25 \$2,445,000 the second year is from the  
 32.26 trust fund to the commissioner of natural  
 32.27 resources to acquire approximately 300 acres  
 32.28 from willing sellers for authorized state  
 32.29 trails and critical parcels within the statutory  
 32.30 boundaries of state parks. Of this amount, at  
 32.31 least \$445,000 must be used for state parks  
 32.32 and trails along the Minnesota River. State  
 32.33 park land acquired with this appropriation  
 32.34 must be sufficiently improved to meet at  
 32.35 least minimum management standards, as  
 33.1 determined by the commissioner of natural  
 33.2 resources. A list of proposed acquisitions  
 33.3 must be provided as part of the required work  
 33.4 plan. This appropriation is available until  
 33.5 June 30, 2019, by which time the project must  
 33.6 be completed and final products delivered.

33.7 **(b) Scientific and Natural Area Acquisition and**  
 33.8 **Restoration**

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

28.22 **(a) Scientific and Natural Area Restoration**

28.23 \$1,386,000 the second year is from the trust  
 28.24 fund to the commissioner of natural resources  
 28.25 to restore and improve approximately 750  
 28.26 acres of scientific and natural areas. A list  
 28.27 of proposed restorations must be provided  
 28.28 as part of the required work plan. This  
 28.29 appropriation is available until June 30,  
 28.30 2019, by which time the project must be  
 28.31 completed and final products delivered.

33.31 **(c) Minnesota Point Pine Forest Scientific and**  
 33.32 **Natural Area Acquisition**

33.33 \$500,000 the second year is from the  
 33.34 trust fund to the commissioner of natural  
 33.35 resources in cooperation with the Duluth  
 33.36 Airport Authority to acquire approximately  
 34.1 ten acres as an addition to the designated  
 34.2 Minnesota Point Pine Forest Scientific and  
 34.3 Natural Area located along the shores of  
 34.4 Lake Superior in Duluth.

34.5 **(d) Conservation Easements in Avon Hills -**  
 34.6 **Phase III**

34.7 \$1,300,000 the second year is from the  
 34.8 trust fund to the commissioner of natural  
 34.9 resources for an agreement with Saint John's  
 34.10 University in cooperation with Minnesota  
 34.11 Land Trust to secure permanent conservation  
 34.12 easements on approximately 500 acres  
 34.13 of high-quality habitat in Stearns County,  
 34.14 prepare conservation management plans, and  
 34.15 provide public outreach. A list of proposed  
 34.16 easement acquisitions must be provided as  
 34.17 part of the required work plan. An entity  
 34.18 that acquires a conservation easement with  
 34.19 appropriations from the trust fund must have  
 34.20 a long-term stewardship plan for the easement  
 34.21 and a fund established for monitoring and  
 34.22 enforcing the agreement. Funding for the  
 34.23 long-term monitoring and enforcement  
 34.24 fund must come from nonstate sources for  
 34.25 easements acquired with this appropriation.  
 34.26 The state may enforce requirements in the  
 34.27 conservation easements on land acquired  
 34.28 with this appropriation and the conservation  
 34.29 easement document must state this authority  
 34.30 and explicitly include requirements for  
 34.31 water quality and quantity protection. This  
 34.32 appropriation is available until June 30,  
 34.33 2019, by which time the project must be

28.32 **(b) Conservation Easements in Avon Hills -**  
 28.33 **Phase III**

28.34 \$1,300,000 the second year is from the  
 28.35 trust fund to the commissioner of natural  
 28.36 resources for an agreement with Saint John's  
 29.1 University in cooperation with Minnesota  
 29.2 Land Trust to secure permanent conservation  
 29.3 easements on approximately 500 acres  
 29.4 of high-quality habitat in Stearns County,  
 29.5 prepare conservation management plans, and  
 29.6 provide public outreach. A list of proposed  
 29.7 easement acquisitions must be provided as  
 29.8 part of the required work plan. An entity  
 29.9 that acquires a conservation easement with  
 29.10 appropriations from the trust fund must have  
 29.11 a long-term stewardship plan for the easement  
 29.12 and a fund established for monitoring and  
 29.13 enforcing the agreement. Funding for the  
 29.14 long-term monitoring and enforcement  
 29.15 fund must come from nonstate sources for  
 29.16 easements acquired with this appropriation.  
 29.17 The state may enforce requirements in the  
 29.18 conservation easements on land acquired  
 29.19 with this appropriation and the conservation  
 29.20 easement document must state this authority  
 29.21 and explicitly include requirements for  
 29.22 water quality and quantity protection. This  
 29.23 appropriation is available until June 30,  
 29.24 2019, by which time the project must be

34.34 completed and final products delivered.

29.25 completed and final products delivered.

34.35 **(e) Wilder Forest Acquisition**

35.1 \$500,000 the second year is from the trust  
 35.2 fund to the commissioner of natural resources  
 35.3 for an agreement with Washington County  
 35.4 in cooperation with the Minnesota Food  
 35.5 Association to partially acquire property  
 35.6 in Washington County known as Wilder  
 35.7 Forest to be used in organic agricultural  
 35.8 production and habitat conservation. Any  
 35.9 land to be acquired must be identified in  
 35.10 an approved work plan, publicly owned,  
 35.11 and open to public use. The county must  
 35.12 evaluate and provide a long-term plan for  
 35.13 the conservation of the Wilder Forest area  
 35.14 to the Legislative-Citizen Commission on  
 35.15 Minnesota Resources before the acquisition  
 35.16 is completed. This appropriation must be  
 35.17 matched by at least an equal amount of  
 35.18 nonstate funds.

35.19 **(f) Lincoln Pipestone Rural Water System**  
 35.20 **Acquisition for Wellhead Protection**

35.21 \$1,500,000 the second year is from the  
 35.22 trust fund to the commissioner of natural  
 35.23 resources for an agreement with Lincoln  
 35.24 Pipestone Rural Water to acquire and  
 35.25 restore lands designated under an approved  
 35.26 wellhead protection plan. Lands acquired  
 35.27 with this appropriation must be from willing  
 35.28 sellers and be identified by the Department  
 35.29 of Health as targeted vulnerable lands for  
 35.30 wellhead protection. Lands must be restored  
 35.31 to permanent vegetative cover, but may be  
 35.32 used for recreation and renewable energy if  
 35.33 adequate protection of the drinking water  
 35.34 aquifer is provided. A list of proposed  
 35.35 acquisitions must be provided as part of the  
 35.36 required work plan. Plant and seed materials  
 36.1 must follow the Board of Water and Soil

29.26 **(c) Lincoln Pipestone Rural Water System**  
 29.27 **Acquisition for Wellhead Protection**

29.28 \$1,500,000 the second year is from the  
 29.29 trust fund to the commissioner of natural  
 29.30 resources for an agreement with Lincoln  
 29.31 Pipestone Rural Water to acquire and  
 29.32 restore lands designated under an approved  
 29.33 wellhead protection plan. Lands acquired  
 29.34 with this appropriation must be from willing  
 29.35 sellers and be identified by the Department  
 29.36 of Health as targeted vulnerable lands for  
 30.1 wellhead protection. Lands must be restored  
 30.2 to permanent vegetative cover, but may be  
 30.3 used for recreation and renewable energy if  
 30.4 adequate protection of the drinking water  
 30.5 aquifer is provided. A list of proposed  
 30.6 acquisitions must be provided as part of the  
 30.7 required work plan. Plant and seed materials  
 30.8 must follow the Board of Water and Soil

36.2 Resources' native vegetation establishment  
 36.3 and enhancement guidelines. Income  
 36.4 derived from the lands acquired with funds  
 36.5 appropriated under this paragraph is exempt  
 36.6 from Minnesota Statutes, section 116P.10,  
 36.7 if used for additional wellhead protection as  
 36.8 provided under this paragraph until adequate  
 36.9 wellhead protection has been achieved,  
 36.10 as determined by the commissioner of  
 36.11 health. Any income earned after that must  
 36.12 be returned to the environment and natural  
 36.13 resources trust fund. This appropriation  
 36.14 is available until June 30, 2019, by which  
 36.15 time the project must be completed and final  
 36.16 products delivered.

36.17 **(g) Mesabi Trail Segment from Highway 135**  
 36.18 **to Town of Embarrass**

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

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

36.31 \$679,000 the second year is from the trust  
 36.32 fund to the commissioner of natural resources  
 36.33 for an agreement with the city of Tower to  
 36.34 construct recreational trails along the harbor  
 36.35 in Tower and to connect to the Mesabi Trail.  
 37.1 This appropriation is available until June  
 37.2 30, 2019, by which time the project must be  
 37.3 completed and final products delivered.

30.9 Resources' native vegetation establishment  
 30.10 and enhancement guidelines. Income  
 30.11 derived from the lands acquired with funds  
 30.12 appropriated under this paragraph is exempt  
 30.13 from Minnesota Statutes, section 116P.10,  
 30.14 if used for additional wellhead protection as  
 30.15 provided under this paragraph until adequate  
 30.16 wellhead protection has been achieved,  
 30.17 as determined by the commissioner of  
 30.18 health. Any income earned after that must  
 30.19 be returned to the environment and natural  
 30.20 resources trust fund. This appropriation  
 30.21 is available until June 30, 2019, by which  
 30.22 time the project must be completed and final  
 30.23 products delivered.

30.24 **(d) Mesabi Trail Segment from Highway 135**  
 30.25 **to Town of Embarrass**

30.26 \$1,200,000 the second year is from the trust  
 30.27 fund to the commissioner of natural resources  
 30.28 for an agreement with the St. Louis and Lake  
 30.29 Counties Regional Railroad Authority for  
 30.30 engineering and construction of segments of  
 30.31 the Mesabi Trail, totaling approximately six  
 30.32 miles between Highway 135 and the town of  
 30.33 Embarrass. This appropriation is available  
 30.34 until June 30, 2019, by which time the  
 30.35 project must be completed and final products  
 30.36 delivered.

31.1 **(e) Tower Historic Harbor Trail Connections**

31.2 \$679,000 the second year is from the trust  
 31.3 fund to the commissioner of natural resources  
 31.4 for an agreement with the city of Tower to  
 31.5 construct recreational trails along the harbor  
 31.6 in Tower and to connect to the Mesabi Trail.  
 31.7 This appropriation is available until June  
 31.8 30, 2019, by which time the project must be  
 31.9 completed and final products delivered.

37.4 (i) Otter Tail River Recreational Trail  
 37.5 Acquisition

37.6 \$500,000 the second year is from the trust  
 37.7 fund to the commissioner of natural resources  
 37.8 for an agreement with the city of Fergus Falls  
 37.9 to acquire approximately 16 acres along the  
 37.10 Otter Tail River for a recreational trail and  
 37.11 park. This appropriation is contingent on at  
 37.12 least an equal match of nonstate money. Prior  
 37.13 to the acquisition, a phase 1 environmental  
 37.14 assessment must be completed and the city  
 37.15 must not accept any liability for previous  
 37.16 contamination of lands acquired with this  
 37.17 appropriation.

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

37.19 (a) Contract Agreement Reimbursement

31.10 (f) Otter Tail River Recreational Trail  
 31.11 Acquisition

31.12 \$500,000 the second year is from the trust  
 31.13 fund to the commissioner of natural resources  
 31.14 for an agreement with the city of Fergus Falls  
 31.15 to acquire approximately 16 acres along the  
 31.16 Otter Tail River for a recreational trail and  
 31.17 park. This appropriation is contingent on at  
 31.18 least an equal match of nonstate money. Prior  
 31.19 to the acquisition, a phase 1 environmental  
 31.20 assessment must be completed and the city  
 31.21 must not accept any liability for previous  
 31.22 contamination of lands acquired with this  
 31.23 appropriation.

31.24 (g) State Park and Trail Enhancement

31.25 \$1,500,000 the second year is from the trust  
 31.26 fund to the commissioner of natural resources  
 31.27 for enhancement of state parks and trails as  
 31.28 follows: \$800,000 is for enhancement of  
 31.29 state parks and \$700,000 is for enhancement  
 31.30 of state trails. This appropriation is not  
 31.31 subject to Minnesota Statutes, sections  
 31.32 116P.05, subdivision 2, paragraph (b), and  
 31.33 116P.09, subdivision 4.

31.34 Subd. 10. Emerging Issues Account -0- 164,000

32.1 \$164,000 the second year is from the  
 32.2 trust fund to an emerging issues account  
 32.3 authorized in Minnesota Statutes, section  
 32.4 116P.08, subdivision 4, paragraph (d).

32.5 Subd. 11. Administration -0- 210,000

32.6 (a) Contract Agreement Reimbursement

37.20 \$135,000 the second year is from  
 37.21 the trust fund to the commissioner of  
 37.22 natural resources, at the direction of  
 37.23 the Legislative-Citizen Commission on  
 37.24 Minnesota Resources, for expenses incurred  
 37.25 for contract agreement reimbursement for  
 37.26 the agreements specified in this section. The  
 37.27 commissioner shall provide documentation  
 37.28 to the Legislative-Citizen Commission on  
 37.29 Minnesota Resources on the expenditure of  
 37.30 these funds.

37.31 **(b) Grants Management System**

37.32 \$75,000 the second year is from the trust  
 37.33 fund to the Legislative-Citizen Commission  
 37.34 on Minnesota Resources for upgrading and  
 38.1 modernizing a project records management  
 38.2 system.

38.3 **Subd. 11. Availability of Appropriations**

38.4 Money appropriated in this section may  
 38.5 not be spent on activities unless they are  
 38.6 directly related to and necessary for a specific  
 38.7 appropriation and are specified in the work  
 38.8 plan approved by the Legislative-Citizen  
 38.9 Commission on Minnesota Resources.  
 38.10 Money appropriated in this section must  
 38.11 not be spent on indirect costs or other  
 38.12 institutional overhead charges that are  
 38.13 not directly related to and necessary for a  
 38.14 specific appropriation. Costs that are directly  
 38.15 related to and necessary for an appropriation,  
 38.16 including financial services, human  
 38.17 resources, information services, rent, and  
 38.18 utilities, are eligible only if the costs can be  
 38.19 clearly justified and individually documented  
 38.20 specific to the appropriation's purpose and  
 38.21 would not be generated by the recipient  
 38.22 but for the receipt of the appropriation. No  
 38.23 broad allocations for costs in either dollars or  
 38.24 percentages are allowed. Unless otherwise

32.7 \$135,000 the second year is from  
 32.8 the trust fund to the commissioner of  
 32.9 natural resources, at the direction of  
 32.10 the Legislative-Citizen Commission on  
 32.11 Minnesota Resources, for expenses incurred  
 32.12 for contract agreement reimbursement for  
 32.13 the agreements specified in this section. The  
 32.14 commissioner shall provide documentation  
 32.15 to the Legislative-Citizen Commission on  
 32.16 Minnesota Resources on the expenditure of  
 32.17 these funds.

32.18 **(b) Grants Management System**

32.19 \$75,000 the second year is from the trust  
 32.20 fund to the Legislative-Citizen Commission  
 32.21 on Minnesota Resources for upgrading and  
 32.22 modernizing a project records management  
 32.23 system.

32.24 **Subd. 12. Availability of Appropriations**

32.25 Money appropriated in this section may  
 32.26 not be spent on activities unless they are  
 32.27 directly related to and necessary for a specific  
 32.28 appropriation and are specified in the work  
 32.29 plan approved by the Legislative-Citizen  
 32.30 Commission on Minnesota Resources.  
 32.31 Money appropriated in this section must  
 32.32 not be spent on indirect costs or other  
 32.33 institutional overhead charges that are  
 32.34 not directly related to and necessary for a  
 33.1 specific appropriation. Costs that are directly  
 33.2 related to and necessary for an appropriation,  
 33.3 including financial services, human  
 33.4 resources, information services, rent, and  
 33.5 utilities, are eligible only if the costs can be  
 33.6 clearly justified and individually documented  
 33.7 specific to the appropriation's purpose and  
 33.8 would not be generated by the recipient  
 33.9 but for the receipt of the appropriation. No  
 33.10 broad allocations for costs in either dollars or  
 33.11 percentages are allowed. Unless otherwise

38.25 provided, the amounts in this section are  
 38.26 available until June 30, 2018, when projects  
 38.27 must be completed and final products  
 38.28 delivered. For acquisition of real property,  
 38.29 the appropriations in this section are available  
 38.30 for an additional fiscal year if a binding  
 38.31 contract for acquisition of the real property is  
 38.32 entered into before the expiration date of the  
 38.33 appropriation. If a project receives a federal  
 38.34 grant, the time period of the appropriation is  
 38.35 extended to equal the federal grant period.

39.1 Subd. 12. Data Availability Requirements

39.2 Data collected by the projects funded under  
 39.3 this section must conform to guidelines  
 39.4 and standards adopted by MN.IT Services.  
 39.5 Spatial data also must conform to additional  
 39.6 guidelines and standards designed to support  
 39.7 data coordination and distribution that have  
 39.8 been published by the Minnesota Geospatial  
 39.9 Information Office. Descriptions of spatial  
 39.10 data must be prepared as specified in  
 39.11 the state's geographic metadata guideline  
 39.12 and must be submitted to the Minnesota  
 39.13 Geospatial Information Office. All data must  
 39.14 be accessible and free to the public unless  
 39.15 made private under the Data Practices Act,  
 39.16 Minnesota Statutes, chapter 13. To the extent  
 39.17 practicable, summary data and results of  
 39.18 projects funded under this section should  
 39.19 be readily accessible on the Internet and  
 39.20 identified as having received funding from  
 39.21 the environment and natural resources trust  
 39.22 fund.

39.23 Subd. 13. Project Requirements

33.12 provided, the amounts in this section are  
 33.13 available until June 30, 2018, when projects  
 33.14 must be completed and final products  
 33.15 delivered. For acquisition of real property,  
 33.16 the appropriations in this section are available  
 33.17 for an additional fiscal year if a binding  
 33.18 contract for acquisition of the real property is  
 33.19 entered into before the expiration date of the  
 33.20 appropriation. If a project receives a federal  
 33.21 grant, the time period of the appropriation is  
 33.22 extended to equal the federal grant period.

33.23 Subd. 13. Data Availability Requirements

33.24 Data collected by the projects funded under  
 33.25 this section must conform to guidelines  
 33.26 and standards adopted by MN.IT Services.  
 33.27 Spatial data also must conform to additional  
 33.28 guidelines and standards designed to support  
 33.29 data coordination and distribution that have  
 33.30 been published by the Minnesota Geospatial  
 33.31 Information Office. Descriptions of spatial  
 33.32 data must be prepared as specified in  
 33.33 the state's geographic metadata guideline  
 33.34 and must be submitted to the Minnesota  
 33.35 Geospatial Information Office. All data must  
 33.36 be accessible and free to the public unless  
 34.1 made private under the Data Practices Act,  
 34.2 Minnesota Statutes, chapter 13. To the extent  
 34.3 practicable, summary data and results of  
 34.4 projects funded under this section should  
 34.5 be readily accessible on the Internet and  
 34.6 identified as having received funding from  
 34.7 the environment and natural resources trust  
 34.8 fund.

34.9 Subd. 14. Project Requirements

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

40.5 (b) A recipient of money appropriated in  
 40.6 this section that conducts a restoration using  
 40.7 funds appropriated in this section must use  
 40.8 native plant species according to the Board of  
 40.9 Water and Soil Resources' native vegetation  
 40.10 establishment and enhancement guidelines  
 40.11 and include an appropriate diversity of  
 40.12 native species selected to provide habitat for  
 40.13 pollinators throughout the growing season as  
 40.14 required under Minnesota Statutes, section  
 40.15 84.973.

40.16 (c) For all restorations conducted with money  
 40.17 appropriated under this section, a recipient  
 40.18 must prepare an ecological restoration  
 40.19 and management plan that, to the degree  
 40.20 practicable, is consistent with the highest  
 40.21 quality conservation and ecological goals for  
 40.22 the restoration site. Consideration should  
 40.23 be given to soil, geology, topography, and  
 40.24 other relevant factors that would provide  
 40.25 the best chance for long-term success and  
 40.26 durability of the restoration project. The  
 40.27 plan must include the proposed timetable  
 40.28 for implementing the restoration, including  
 40.29 site preparation, establishment of diverse

34.10 (a) As a condition of accepting an  
 34.11 appropriation under this section, an agency  
 34.12 or entity receiving an appropriation or a  
 34.13 party to an agreement from an appropriation  
 34.14 must comply with paragraphs (b) to (l)  
 34.15 and Minnesota Statutes, chapter 116P, and  
 34.16 must submit a work plan and semiannual  
 34.17 progress reports in the form determined  
 34.18 by the Legislative-Citizen Commission on  
 34.19 Minnesota Resources for any project funded  
 34.20 in whole or in part with funds from the  
 34.21 appropriation. Modifications to the approved  
 34.22 work plan and budget expenditures must  
 34.23 be made through the amendment process  
 34.24 established by the Legislative-Citizen  
 34.25 Commission on Minnesota Resources.

34.26 (b) A recipient of money appropriated in  
 34.27 this section that conducts a restoration using  
 34.28 funds appropriated in this section must use  
 34.29 native plant species according to the Board of  
 34.30 Water and Soil Resources' native vegetation  
 34.31 establishment and enhancement guidelines  
 34.32 and include an appropriate diversity of  
 34.33 native species selected to provide habitat for  
 34.34 pollinators throughout the growing season as  
 35.1 required under Minnesota Statutes, section  
 35.2 84.973.

35.3 (c) For all restorations conducted with money  
 35.4 appropriated under this section, a recipient  
 35.5 must prepare an ecological restoration  
 35.6 and management plan that, to the degree  
 35.7 practicable, is consistent with the highest  
 35.8 quality conservation and ecological goals for  
 35.9 the restoration site. Consideration should  
 35.10 be given to soil, geology, topography, and  
 35.11 other relevant factors that would provide  
 35.12 the best chance for long-term success and  
 35.13 durability of the restoration project. The  
 35.14 plan must include the proposed timetable  
 35.15 for implementing the restoration, including  
 35.16 site preparation, establishment of diverse

40.30 plant species, maintenance, and additional  
 40.31 enhancement to establish the restoration;  
 40.32 identify long-term maintenance and  
 40.33 management needs of the restoration and  
 40.34 how the maintenance, management, and  
 40.35 enhancement will be financed; and take  
 40.36 advantage of the best available science and  
 41.1 include innovative techniques to achieve the  
 41.2 best restoration.

41.3 (d) An entity receiving an appropriation in  
 41.4 this section for restoration activities must  
 41.5 provide an initial restoration evaluation  
 41.6 at the completion of the appropriation  
 41.7 and an evaluation three years beyond the  
 41.8 completion of the expenditure. Restorations  
 41.9 must be evaluated relative to the stated  
 41.10 goals and standards in the restoration plan,  
 41.11 current science, and, when applicable, the  
 41.12 Board of Water and Soil Resources' native  
 41.13 vegetation establishment and enhancement  
 41.14 guidelines. The evaluation must determine  
 41.15 whether the restorations are meeting planned  
 41.16 goals, identify any problems with the  
 41.17 implementation of the restorations, and,  
 41.18 if necessary, give recommendations on  
 41.19 improving restorations. The evaluation must  
 41.20 be focused on improving future restorations.

41.21 (e) All restoration and enhancement projects  
 41.22 funded with money appropriated in this  
 41.23 section must be on land permanently  
 41.24 protected by a conservation easement or  
 41.25 public ownership.

41.26 (f) A recipient of money from an  
 41.27 appropriation under this section must  
 41.28 give consideration to contracting with  
 41.29 Conservation Corps Minnesota for contract  
 41.30 restoration and enhancement services.

41.31 (g) All conservation easements acquired with  
 41.32 money appropriated under this section must:

35.17 plant species, maintenance, and additional  
 35.18 enhancement to establish the restoration;  
 35.19 identify long-term maintenance and  
 35.20 management needs of the restoration and  
 35.21 how the maintenance, management, and  
 35.22 enhancement will be financed; and take  
 35.23 advantage of the best available science and  
 35.24 include innovative techniques to achieve the  
 35.25 best restoration.

35.26 (d) An entity receiving an appropriation in  
 35.27 this section for restoration activities must  
 35.28 provide an initial restoration evaluation  
 35.29 at the completion of the appropriation  
 35.30 and an evaluation three years beyond the  
 35.31 completion of the expenditure. Restorations  
 35.32 must be evaluated relative to the stated  
 35.33 goals and standards in the restoration plan,  
 35.34 current science, and, when applicable, the  
 35.35 Board of Water and Soil Resources' native  
 35.36 vegetation establishment and enhancement  
 36.1 guidelines. The evaluation must determine  
 36.2 whether the restorations are meeting planned  
 36.3 goals, identify any problems with the  
 36.4 implementation of the restorations, and,  
 36.5 if necessary, give recommendations on  
 36.6 improving restorations. The evaluation must  
 36.7 be focused on improving future restorations.

36.8 (e) All restoration and enhancement projects  
 36.9 funded with money appropriated in this  
 36.10 section must be on land permanently  
 36.11 protected by a conservation easement or  
 36.12 public ownership.

36.13 (f) A recipient of money from an  
 36.14 appropriation under this section must  
 36.15 give consideration to contracting with  
 36.16 Conservation Corps Minnesota for contract  
 36.17 restoration and enhancement services.

36.18 (g) All conservation easements acquired with  
 36.19 money appropriated under this section must:

41.33 (1) be permanent;

41.34 (2) specify the parties to an easement in the

41.35 easement;

42.1 (3) specify all of the provisions of an

42.2 agreement that are permanent;

42.3 (4) be sent to the Legislative-Citizen

42.4 Commission on Minnesota Resources in an

42.5 electronic format at least ten business days

42.6 prior to closing;

42.7 (5) include a long-term monitoring and

42.8 enforcement plan and funding for monitoring

42.9 and enforcing the easement agreement; and

42.10 (6) include requirements in the easement

42.11 document to address specific groundwater

42.12 and surface water quality protection activities

42.13 such as keeping water on the landscape,

42.14 reducing nutrient and contaminant loading,

42.15 protecting groundwater, and not permitting

42.16 artificial hydrological modifications.

42.17 (h) For any acquisition of lands or interest

42.18 in lands, a recipient of money appropriated

42.19 under this section must not agree to pay

42.20 more than 100 percent of the appraised value

42.21 for a parcel of land using this money to

42.22 complete the purchase, in part or in whole,

42.23 except that up to ten percent above the

42.24 appraised value may be allowed to complete

42.25 the purchase, in part or in whole, using this

42.26 money if permission is received in advance

42.27 of the purchase from the Legislative-Citizen

42.28 Commission on Minnesota Resources.

36.20 (1) be permanent;

36.21 (2) specify the parties to an easement in the

36.22 easement;

36.23 (3) specify all of the provisions of an

36.24 agreement that are permanent;

36.25 (4) be sent to the Legislative-Citizen

36.26 Commission on Minnesota Resources in an

36.27 electronic format at least ten business days

36.28 prior to closing;

36.29 (5) include a long-term monitoring and

36.30 enforcement plan and funding for monitoring

36.31 and enforcing the easement agreement; and

36.32 (6) include requirements in the easement

36.33 document to address specific groundwater

36.34 and surface water quality protection activities

37.1 such as keeping water on the landscape,

37.2 reducing nutrient and contaminant loading,

37.3 protecting groundwater, and not permitting

37.4 artificial hydrological modifications.

37.5 (h) For any acquisition of lands or interest

37.6 in lands, a recipient of money appropriated

37.7 under this section must not agree to pay

37.8 more than 100 percent of the appraised value

37.9 for a parcel of land using this money to

37.10 complete the purchase, in part or in whole,

37.11 except that up to ten percent above the

37.12 appraised value may be allowed to complete

37.13 the purchase, in part or in whole, using this

37.14 money if permission is received in advance

37.15 of the purchase from the Legislative-Citizen

37.16 Commission on Minnesota Resources.

42.29 (i) For any acquisition of land or interest in  
 42.30 land, a recipient of money appropriated under  
 42.31 this section must give priority to high-quality  
 42.32 natural resources or conservation lands that  
 42.33 provide natural buffers to water resources.

42.34 (j) For new lands acquired with money  
 42.35 appropriated under this section, a recipient  
 43.1 must prepare an ecological restoration  
 43.2 and management plan in compliance with  
 43.3 paragraph (c), including sufficient funding  
 43.4 for implementation unless the work plan  
 43.5 addresses why a portion of the money is  
 43.6 not necessary to achieve a high-quality  
 43.7 restoration.

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

37.17 (i) For any acquisition of land or interest in  
 37.18 land, a recipient of money appropriated under  
 37.19 this section must give priority to high-quality  
 37.20 natural resources or conservation lands that  
 37.21 provide natural buffers to water resources.

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 37.23 appropriated under this section, a recipient  
 37.24 must prepare an ecological restoration  
 37.25 and management plan in compliance with  
 37.26 paragraph (c), including sufficient funding  
 37.27 for implementation unless the work plan  
 37.28 addresses why a portion of the money is  
 37.29 not necessary to achieve a high-quality  
 37.30 restoration.

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 37.32 the use of public funds, within 60 days  
 37.33 of the transaction, a recipient of money  
 37.34 appropriated under this section must provide  
 37.35 to the Legislative-Citizen Commission on  
 38.1 Minnesota Resources documentation of the  
 38.2 selection process used to identify parcels  
 38.3 acquired and provide documentation of all  
 38.4 related transaction costs, including but not  
 38.5 limited to appraisals, legal fees, recording  
 38.6 fees, commissions, other similar costs,  
 38.7 and donations. This information must be  
 38.8 provided for all parties involved in the  
 38.9 transaction. The recipient must also report  
 38.10 to the Legislative-Citizen Commission on  
 38.11 Minnesota Resources any difference between  
 38.12 the acquisition amount paid to the seller and  
 38.13 the state-certified or state-reviewed appraisal,  
 38.14 if a state-certified or state-reviewed appraisal  
 38.15 was conducted.

43.28 (l) A recipient of an appropriation from  
 43.29 the trust fund under this section must  
 43.30 acknowledge financial support from  
 43.31 the Minnesota environment and natural  
 43.32 resources trust fund in project publications,  
 43.33 signage, and other public communications  
 43.34 and outreach related to work completed  
 43.35 using the appropriation. Acknowledgment  
 43.36 may occur, as appropriate, through use of  
 44.1 the trust fund logo or inclusion of language  
 44.2 attributing support from the trust fund. Each  
 44.3 direct recipient of money appropriated in  
 44.4 this section, as well as each recipient of a  
 44.5 grant awarded pursuant to this section, must  
 44.6 satisfy all reporting and other requirements  
 44.7 incumbent upon constitutionally dedicated  
 44.8 funding recipients as provided in Minnesota  
 44.9 Statutes, section 3.303, subdivision 10, and  
 44.10 chapter 116P.

44.11 **Subd. 14. Payment Conditions and Capital**  
 44.12 **Equipment Expenditures**

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

38.16 (l) A recipient of an appropriation from  
 38.17 the trust fund under this section must  
 38.18 acknowledge financial support from  
 38.19 the Minnesota environment and natural  
 38.20 resources trust fund in project publications,  
 38.21 signage, and other public communications  
 38.22 and outreach related to work completed  
 38.23 using the appropriation. Acknowledgment  
 38.24 may occur, as appropriate, through use of  
 38.25 the trust fund logo or inclusion of language  
 38.26 attributing support from the trust fund. Each  
 38.27 direct recipient of money appropriated in  
 38.28 this section, as well as each recipient of a  
 38.29 grant awarded pursuant to this section, must  
 38.30 satisfy all reporting and other requirements  
 38.31 incumbent upon constitutionally dedicated  
 38.32 funding recipients as provided in Minnesota  
 38.33 Statutes, section 3.303, subdivision 10, and  
 38.34 chapter 116P.

38.35 **Subd. 15. Payment Conditions and Capital**  
 38.36 **Equipment Expenditures**

39.1 (a) All agreements, grants, or contracts  
 39.2 referred to in this section must be  
 39.3 administered on a reimbursement basis  
 39.4 unless otherwise provided in this section.  
 39.5 Notwithstanding Minnesota Statutes, section  
 39.6 16A.41, expenditures made on or after  
 39.7 July 1, 2016, or the date the work plan is  
 39.8 approved, whichever is later, are eligible for  
 39.9 reimbursement unless otherwise provided  
 39.10 in this section. Periodic payment must be  
 39.11 made upon receiving documentation that  
 39.12 the deliverable items articulated in the  
 39.13 approved work plan have been achieved,  
 39.14 including partial achievements as evidenced  
 39.15 by approved progress reports. Reasonable  
 39.16 amounts may be advanced to projects to  
 39.17 accommodate cash flow needs or match  
 39.18 federal money. The advances must be  
 39.19 approved as part of the work plan. No

44.32 expenditures for capital equipment are  
 44.33 allowed unless expressly authorized in the  
 44.34 project work plan.

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

45.1 Subd. 15. **Purchase of Recycled and Recyclable**  
 45.2 **Materials**

45.3 A political subdivision, public or private  
 45.4 corporation, or other entity that receives an  
 45.5 appropriation under this section must use the  
 45.6 appropriation in compliance with Minnesota  
 45.7 Statutes, section 16C.0725, regarding  
 45.8 purchase of recycled, repairable, and durable  
 45.9 materials; and Minnesota Statutes, section  
 45.10 16C.073, regarding purchase and use of  
 45.11 paper stock and printing.

45.12 Subd. 16. **Energy Conservation and**  
 45.13 **Sustainable Building Guidelines**

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

45.30 Subd. 17. **Accessibility**

39.20 expenditures for capital equipment are  
 39.21 allowed unless expressly authorized in the  
 39.22 project work plan.

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

39.25 Subd. 16. **Purchase of Recycled and Recyclable**  
 39.26 **Materials**

39.27 A political subdivision, public or private  
 39.28 corporation, or other entity that receives an  
 39.29 appropriation under this section must use the  
 39.30 appropriation in compliance with Minnesota  
 39.31 Statutes, section 16C.0725, regarding  
 39.32 purchase of recycled, repairable, and durable  
 39.33 materials; and Minnesota Statutes, section  
 39.34 16C.073, regarding purchase and use of  
 39.35 paper stock and printing.

40.1 Subd. 17. **Energy Conservation and**  
 40.2 **Sustainable Building Guidelines**

40.3 A recipient to whom an appropriation is made  
 40.4 under this section for a capital improvement  
 40.5 project must ensure that the project complies  
 40.6 with the applicable energy conservation and  
 40.7 sustainable building guidelines and standards  
 40.8 contained in law, including Minnesota  
 40.9 Statutes, sections 16B.325, 216C.19, and  
 40.10 216C.20, and rules adopted under those  
 40.11 sections. The recipient may use the energy  
 40.12 planning, advocacy, and State Energy Office  
 40.13 units of the Department of Commerce to  
 40.14 obtain information and technical assistance  
 40.15 on energy conservation and alternative  
 40.16 energy development relating to the planning  
 40.17 and construction of the capital improvement  
 40.18 project.

40.19 Subd. 18. **Accessibility**

45.31 Structural and nonstructural facilities must  
 45.32 meet the design standards in the Americans  
 45.33 with Disabilities Act (ADA) accessibility  
 45.34 guidelines.

45.35 Subd. 18. **Carryforward**

46.1 (a) The availability of the appropriations for  
 46.2 the following projects are extended to June  
 46.3 30, 2017:

46.4 (1) Laws 2013, chapter 52, section 2,  
 46.5 subdivision 3, paragraph (c), County  
 46.6 Geologic Atlases - Part B;

46.7 (2) Laws 2013, chapter 52, section 2,  
 46.8 subdivision 4, paragraph (d), Metropolitan  
 46.9 Conservation Corridors (MeCC) - Phase  
 46.10 VII, \$400,000 for the agreement with the  
 46.11 Minnesota Valley National Wildlife Refuge  
 46.12 Trust, Inc. only;

46.13 (3) Laws 2013, chapter 52, section 2,  
 46.14 subdivision 4, paragraph (i), Conservation  
 46.15 Grazing to Improve Wildlife Habitat on  
 46.16 Wildlife Management Areas;

46.17 (4) Laws 2013, chapter 52, section 2,  
 46.18 subdivision 5, paragraph (b), Assessment of  
 46.19 Natural Copper-Nickel Bedrocks on Water  
 46.20 Quality;

46.21 (5) Laws 2013, chapter 52, section 2,  
 46.22 subdivision 5, paragraph (f), Evaluation of  
 46.23 Lake Superior Water Quality Health;

46.24 (6) Laws 2013, chapter 52, section 2,  
 46.25 subdivision 6, paragraph (c), Improving  
 46.26 Emerald Ash Borer Detection Efficacy for  
 46.27 Control;

40.20 Structural and nonstructural facilities must  
 40.21 meet the design standards in the Americans  
 40.22 with Disabilities Act (ADA) accessibility  
 40.23 guidelines.

40.24 Subd. 19. **Carryforward; Extension**

40.25 The availability of the appropriations for the  
 40.26 following projects are extended to June 30,  
 40.27 2017:

40.28 (a) Laws 2013, chapter 52, section 2,  
 40.29 subdivision 3, paragraph (c), County  
 40.30 Geologic Atlases - Part B;

40.31 (b) Laws 2013, chapter 52, section 2,  
 40.32 subdivision 4, paragraph (d), Metropolitan  
 40.33 Conservation Corridors (MeCC) - Phase  
 40.34 VII, \$400,000 for the agreement with the  
 41.1 Minnesota Valley National Wildlife Refuge  
 41.2 Trust, Inc. only;

41.3 (c) Laws 2013, chapter 52, section 2,  
 41.4 subdivision 4, paragraph (i), Conservation  
 41.5 Grazing to Improve Wildlife Habitat on  
 41.6 Wildlife Management Areas;

41.7 (d) Laws 2013, chapter 52, section 2,  
 41.8 subdivision 5, paragraph (b), Assessment of  
 41.9 Natural Copper-Nickel Bedrocks on Water  
 41.10 Quality;

41.11 (e) Laws 2013, chapter 52, section 2,  
 41.12 subdivision 5, paragraph (f), Evaluation of  
 41.13 Lake Superior Water Quality Health;

41.14 (f) Laws 2013, chapter 52, section 2,  
 41.15 subdivision 6, paragraph (c), Improving  
 41.16 Emerald Ash Borer Detection Efficacy for  
 41.17 Control;

46.28 (7) Laws 2014, chapter 226, section 2,  
 46.29 subdivision 3, paragraph (l), Rainwater  
 46.30 Reuse and Valuation Investigation;

46.31 (8) Laws 2014, chapter 226, section  
 46.32 2, subdivision 10, paragraph (c),  
 46.33 Legislative-Citizen Commission on  
 46.34 Minnesota Resources (LCCMR) for upgrade  
 47.1 and modernization of a project records  
 47.2 management system; and

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

47.7 (b) The availability of the appropriations for  
 47.8 the following projects are extended to June  
 47.9 30, 2018:

47.10 (1) Laws 2014, chapter 226, section 2,  
 47.11 subdivision 7, paragraph (e), Martin County  
 47.12 Park and Natural Area Acquisition; and

47.13 (2) Laws 2015, chapter 76, section 2,  
 47.14 subdivision 4, paragraph (d), Preventing  
 47.15 Phosphorous, Nitrogen and Pesticides from  
 47.16 Entering Water Resources through Drain  
 47.17 Tiles.

41.18 (g) Laws 2014, chapter 226, section 2,  
 41.19 subdivision 3, paragraph (l), Rainwater  
 41.20 Reuse and Valuation Investigation;

41.21 (h) Laws 2014, chapter 226, section  
 41.22 2, subdivision 10, paragraph (c),  
 41.23 Legislative-Citizen Commission on  
 41.24 Minnesota Resources (LCCMR) for upgrade  
 41.25 and modernization of a project records  
 41.26 management system; and

41.27 (i) Laws 2014, chapter 226, section 2,  
 41.28 subdivision 8, paragraph (b), Innovative  
 41.29 Groundwater-Enhanced Geothermal Heat  
 41.30 Pump Study.

41.31 Subd. 20. **Waiver of Deadlines**

41.32 Any deadlines established by the  
 41.33 Legislative-Citizen Commission on  
 41.34 Minnesota Resources for submission of  
 42.1 proposals for the commission's fiscal  
 42.2 year 2018 funding recommendations are  
 42.3 waived until August 1, 2016, for proposals  
 42.4 requesting \$750,000 or more.

42.5 Sec. 3. Minnesota Statutes 2014, section 116P.05, subdivision 1, is amended to read:

42.6 Subdivision 1. **Membership.** (a) A Legislative-Citizen Commission on Minnesota  
42.7 Resources of 17 members is created in the legislative branch, consisting of the chairs  
42.8 of the house of representatives and senate committees on environment and natural  
42.9 resources finance or designees appointed for the terms of the chairs, four members of the  
42.10 senate appointed by the Subcommittee on Committees of the Committee on Rules and  
42.11 Administration, and four members of the house of representatives appointed by the speaker.

42.12 At least two members from the senate and two members from the house of  
42.13 representatives must be from the minority caucus. Members are entitled to reimbursement  
42.14 for per diem expenses plus travel expenses incurred in the services of the commission.

42.15 Seven citizens are members of the commission, five appointed by the governor, one  
42.16 appointed by the Senate Subcommittee on Committees of the Committee on Rules and  
42.17 Administration, and one appointed by the speaker of the house. The citizen members  
42.18 are selected and recommended to the appointing authorities according to subdivision  
42.19 1a and must:

42.20 (1) have experience or expertise in the science, policy, or practice of the protection,  
42.21 conservation, preservation, and enhancement of the state's air, water, land, fish, wildlife,  
42.22 and other natural resources;

42.23 (2) have strong knowledge in the state's environment and natural resource issues  
42.24 around the state; and

42.25 (3) have demonstrated ability to work in a collaborative environment.

42.26 (b) Members shall develop procedures to elect a chair that rotates between legislative  
42.27 and citizen members each meeting. A citizen member, a senate member, and a house of  
42.28 representatives member shall serve as chairs. The citizen members, senate members, and  
42.29 house of representatives members must select their respective chairs. The chair shall  
42.30 preside and convene meetings as often as necessary to conduct duties prescribed by this  
42.31 chapter.

42.32 (c) Appointed legislative members shall serve on the commission for two-year  
42.33 terms, beginning in January of each odd-numbered year and continuing through the end  
42.34 of December of the next even-numbered year. Appointed citizen members shall serve  
42.35 four-year terms, beginning in January of the first year and continuing through the end  
43.1 of December of the final year. Citizen and legislative members continue to serve until  
43.2 their successors are appointed.

43.3 (d) A citizen member may be removed by an appointing authority for cause.

43.4 Vacancies occurring on the commission shall not affect the authority of the remaining  
43.5 members of the commission to carry out their duties, and vacancies shall be filled for the  
43.6 remainder of the term in the same manner under paragraph (a).

~~43.7 (e) Citizen members shall be initially appointed according to the following schedule~~  
~~43.8 of terms:~~

~~43.9 (1) two members appointed by the governor for a term ending the first Monday in~~  
~~43.10 January 2010;~~

~~43.11 (2) one member appointed by the senate Subcommittee on Committees of the~~  
~~43.12 Committee on Rules and Administration for a term ending the first Monday in January~~  
~~43.13 2010 and one member appointed by the speaker of the house for a term ending the first~~  
~~43.14 Monday in January 2010;~~

~~43.15 (3) two members appointed by the governor for a term ending the first Monday in~~  
~~43.16 January 2009; and~~

~~43.17 (4) one member appointed by the governor for a term ending the first Monday in~~  
~~43.18 January 2008.~~

~~43.19 (f) (e)~~ Citizen members are entitled to per diem and reimbursement for expenses  
43.20 incurred in the services of the commission, as provided in section 15.059, subdivision 3.

~~43.21 (g) (f)~~ The governor's appointments are subject to the advice and consent of the senate.

43.22 Sec. 4. Minnesota Statutes 2015 Supplement, section 116P.05, subdivision 2, is  
43.23 amended to read:

43.24 Subd. 2. **Duties.** (a) The commission shall recommend an annual or biennial  
43.25 legislative bill for appropriations from the environment and natural resources trust  
43.26 fund and shall adopt a strategic plan as provided in section 116P.08. Approval of the  
43.27 recommended legislative bill requires an affirmative vote of at least 12 members of the  
43.28 commission. When selecting projects or programs for recommendation to the legislature,  
43.29 the commission must give priority to large-scale, on-the-ground projects and programs  
43.30 that provide tangible results.

43.31 (b) It is a condition of acceptance of the appropriations made from the Minnesota  
43.32 environment and natural resources trust fund, and oil overcharge money under section  
43.33 4.071, subdivision 2, that the agency or entity receiving the appropriation must  
43.34 submit a work plan and semiannual progress reports in the form determined by the  
43.35 Legislative-Citizen Commission on Minnesota Resources, and comply with applicable  
44.1 reporting requirements under section 116P.16. None of the money provided may be  
44.2 spent unless the commission has approved the pertinent work plan. Modifications to  
44.3 the approved work plan and budget expenditures shall be made through the amendment  
44.4 process established by the commission. The commission shall ensure that the expenditures  
44.5 and outcomes described in the work plan for appropriations funded by the environment  
44.6 and natural resources trust fund are met.

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

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

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

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

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

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

44.19 (4) provide for project outcome evaluation;

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

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

44.24 Sec. 5. Minnesota Statutes 2014, section 116P.08, subdivision 4, is amended to read:

44.25 Subd. 4. **Legislative recommendations.** (a) Funding may be provided only for  
44.26 those projects that meet the categories established in subdivision 1.

44.27 (b) The commission must recommend an annual or biennial legislative bill to  
44.28 make appropriations from the trust fund for the purposes provided in subdivision 1. The  
44.29 recommendations must be submitted to the governor for inclusion in the biennial budget  
44.30 and supplemental budget submitted to the legislature.

44.31 (c) The commission may recommend regional block grants for a portion of trust  
44.32 fund expenditures to partner with existing regional organizations that have strong citizen  
44.33 involvement, to address unique local needs and capacity, and to leverage all available  
44.34 funding sources for projects.

45.1 (d) The commission may recommend the establishment of an emerging issues  
45.2 account in its legislative bill for funding projects or programs addressing emerging issues  
45.3 requiring urgency, which come up unexpectedly, but which still adhere to the commission's  
45.4 strategic plan, to be approved by the governor after initiation and recommendation by the  
45.5 commission. Projects or programs funded from the emerging issues account must not be  
45.6 projects or programs being considered by the commission for its next legislative bill,  
45.7 unless the project or program receives funding from the emerging issues account sufficient  
45.8 to complete the project or program or otherwise provide measurable outcomes without  
45.9 the need for additional funding.

45.10 (e) Money in the trust fund may not be spent except under an appropriation by law.

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

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

47.25 (1) donations that are not connected with the acquisition transaction; or

47.26 (2) bargain sales, as defined by Code of Federal Regulations, title 26, section

47.27 1.1011-2, provided that the purchase price reimbursed by the state does not exceed the

47.28 purchase price paid by the recipient.

47.29 Sec. 4. **[116P.20] EASEMENT MONITORING AND ENFORCEMENT**47.30 **REQUIREMENTS.**

47.31 A recipient of money appropriated from the trust fund for easement monitoring and  
 47.32 enforcement may spend the money only on activities included in an easement monitoring  
 47.33 and enforcement plan contained within the work plan. Money received for monitoring  
 48.1 and enforcement, including earnings on the money received, must be kept in a monitoring  
 48.2 and enforcement fund held by the recipient and dedicated to monitoring and enforcing  
 48.3 conservation easements in Minnesota. A recipient of an appropriation for easement  
 48.4 monitoring and enforcement must, within 120 days after the close of the recipient's  
 48.5 fiscal year, provide an annual financial report to the commission or the commission's  
 48.6 successor on the easement monitoring and enforcement fund as specified in the work plan.  
 48.7 Money appropriated from the trust fund for monitoring and enforcement of easements and  
 48.8 earnings on the money appropriated revert to the state if:

48.9 (1) the easement transfers to the state;

45.11 Sec. 6. Minnesota Statutes 2015 Supplement, section 116P.08, subdivision 5, is  
 45.12 amended to read:

45.13 Subd. 5. **Public meetings.** (a) Meetings of the commission, committees or  
 45.14 subcommittees of the commission, technical advisory committees, and peer reviewers  
 45.15 must be open to the public and are subject to chapter 13D. The commission shall attempt  
 45.16 to meet throughout various regions of the state during each biennium. For purposes of  
 45.17 this subdivision, a meeting occurs when a quorum is present and action is taken regarding  
 45.18 a matter within the jurisdiction of the commission, a committee or subcommittee of the  
 45.19 commission, a technical advisory committee, or peer reviewers.

45.20 (b) For legislative members of the commission, enforcement of this subdivision is  
 45.21 governed by section 3.055, subdivision 2. For nonlegislative members of the commission,  
 45.22 enforcement of this subdivision is governed by section 13D.06, subdivisions 1 and 2.

45.23 Sec. 7. **[116P.19] DONATIONS.**

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

45.30 (1) donations that are not connected with the acquisition transaction; or

45.31 (2) bargain sales, as defined by Code of Federal Regulations, title 26, section

45.32 1.1011-2, provided that the purchase price reimbursed by the state does not exceed the

45.33 purchase price paid by the recipient.

46.1 Sec. 8. **[116P.20] EASEMENT MONITORING AND ENFORCEMENT**46.2 **REQUIREMENTS.**

46.3 A recipient of money appropriated from the trust fund for easement monitoring and  
 46.4 enforcement may spend the money only on activities included in an easement monitoring  
 46.5 and enforcement plan contained within the work plan. Money received for monitoring  
 46.6 and enforcement, including earnings on the money received, must be kept in a monitoring  
 46.7 and enforcement fund held by the recipient and dedicated to monitoring and enforcing  
 46.8 conservation easements in Minnesota. A recipient of an appropriation for easement  
 46.9 monitoring and enforcement must, within 120 days after the close of the recipient's  
 46.10 fiscal year, provide an annual financial report to the commission or the commission's  
 46.11 successor on the easement monitoring and enforcement fund as specified in the work plan.  
 46.12 Money appropriated from the trust fund for monitoring and enforcement of easements and  
 46.13 earnings on the money appropriated revert to the state if:

46.14 (1) the easement transfers to the state;

48.10 (2) the recipient fails to file an annual financial report and then fails to cure the  
 48.11 default within 30 days of notification of the default by the state; or

48.12 (3) the recipient fails to comply with the terms of the monitoring and enforcement  
 48.13 plan contained within the work plan and fails to cure the default within 90 days of  
 48.14 notification of the default by the state.

48.15 Sec. 5. Minnesota Statutes 2014, section 137.025, is amended by adding a subdivision  
 48.16 to read:

48.17 Subd. 2a. **Appropriations from Minnesota environment and natural resources**  
 48.18 **trust fund.** (a) The commissioner of management and budget shall pay no money to  
 48.19 the University of Minnesota pursuant to a direct appropriation from the Minnesota  
 48.20 environment and natural resources trust fund until the University of Minnesota requests  
 48.21 reimbursement for expenditures related to the direct appropriation. The reimbursement  
 48.22 request shall specify expenditures by appropriation. The commissioner of management  
 48.23 and budget shall reimburse the University of Minnesota by the 25th day of the month  
 48.24 following the reimbursement request. If the 25th day of the month falls on a Saturday,  
 48.25 Sunday, or holiday, the payment must be made by the first business day immediately  
 48.26 following the 25th day of the month.

48.27 (b) For each year the appropriation is available, the University of Minnesota must  
 48.28 submit an encumbrance request to the commissioner of management and budget by  
 48.29 July 31 for the prior fiscal year. The encumbrance request shall identify the amount the  
 48.30 university anticipates it will request for reimbursement for expenses in the prior fiscal  
 48.31 year by appropriation. The commissioner of management and budget shall maintain  
 48.32 this amount as an encumbrance at the state level until the university submits its final  
 48.33 reimbursement request for that fiscal year.

48.34 (c) Final requests for reimbursement must be made within 90 days from the last day  
 48.35 the appropriation is available to reimburse expenditures.

46.15 (2) the recipient fails to file an annual financial report and then fails to cure the  
 46.16 default within 30 days of notification of the default by the state; or

46.17 (3) the recipient fails to comply with the terms of the monitoring and enforcement  
 46.18 plan contained within the work plan and fails to cure the default within 90 days of  
 46.19 notification of the default by the state.

46.20 Sec. 9. Minnesota Statutes 2014, section 137.025, is amended by adding a subdivision  
 46.21 to read:

46.22 Subd. 2a. **Appropriations from Minnesota environment and natural resources**  
 46.23 **trust fund.** (a) The commissioner of management and budget shall pay no money to  
 46.24 the University of Minnesota pursuant to a direct appropriation from the Minnesota  
 46.25 environment and natural resources trust fund until the University of Minnesota requests  
 46.26 reimbursement for expenditures related to the direct appropriation. The reimbursement  
 46.27 request shall specify expenditures by appropriation. The commissioner of management  
 46.28 and budget shall reimburse the University of Minnesota by the 25th day of the month  
 46.29 following the reimbursement request. If the 25th day of the month falls on a Saturday,  
 46.30 Sunday, or holiday, the payment must be made by the first business day immediately  
 46.31 following the 25th day of the month.

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 46.33 submit an encumbrance request to the commissioner of management and budget by  
 46.34 July 31 for the prior fiscal year. The encumbrance request shall identify the amount the  
 46.35 university anticipates it will request for reimbursement for expenses in the prior fiscal  
 47.1 year by appropriation. The commissioner of management and budget shall maintain  
 47.2 this amount as an encumbrance at the state level until the university submits its final  
 47.3 reimbursement request for that fiscal year.

47.4 (c) Final requests for reimbursement must be made within 90 days from the last day  
 47.5 the appropriation is available to reimburse expenditures.