SF550 REVISOR **CKM** S0550-1 1st Engrossment

SENATE STATE OF MINNESOTA NINETIETH SESSION

A bill for an act

S.F. No. 550

(SENATE AUTHORS: WESTROM, Dahms, Dziedzic, Tomassoni and Hoffman) **DATE** 02/02/2017 D-PG **OFFICIAL STATUS**

Introduction and first reading Referred to Environment and Natural Resources Finance 489

1.1

03/08/2017 1156a Comm report: To pass as amended and re-refer to Finance

05/10/2017 Comm report: To pass as amended

Second reading

relating to natural resources; appropriating money from environment and natural 1.2 resources trust fund; modifying requirements for receipt of fund money; amending 13 Minnesota Statutes 2016, sections 116P.05, subdivision 2; 116P.17, subdivision 1.4 1.5 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA: 1.6 Section 1. APPROPRIATIONS. 1.7 The sums shown in the columns marked "Appropriations" are appropriated to the agencies 1.8 and for the purposes specified in this act. The appropriations are from the environment and 1.9 natural resources trust fund, or another named fund, and are available for the fiscal years 1 10 indicated for each purpose. The figures "2017," "2018," and "2019" used in this act mean 1.11 that the appropriations listed under them are available for the fiscal year ending June 30, 1.12 2017, June 30, 2018, or June 30, 2019, respectively. "The first year" is fiscal year 2018. 1.13 "The second year" is fiscal year 2019. "The biennium" is fiscal years 2018 and 2019. 1.14 Appropriations for fiscal year 2017 are available the day following final enactment. 1.15 **APPROPRIATIONS** 1.16 Available for the Year 1.17 **Ending June 30** 1.18 1.19 2017 2018 2019 Sec. 2. MINNESOTA RESOURCES 1.20 Subdivision 1. **Total** 1.21

Sec. 2.

\$

8,428,000 \$

50,732,500 \$

-0-

Appropriation

1.22

2.1	The amounts that may be spent for each		
2.2	purpose are specified in the following		
2.3	subdivisions. Appropriations for fiscal years		
2.4	2018 and 2019 are available for two years		
2.5	beginning July 1, 2017, for fiscal year 2018		
2.6	appropriations and beginning July 1, 2018, for		
2.7	fiscal year 2019 appropriations, unless		
2.8	otherwise stated in the appropriation. Any		
2.9	unencumbered balance remaining in the first		
2.10	year does not cancel and is available for the		
2.11	second year or until the end of the		
2.12	appropriation. Appropriations for fiscal year		
2.13	2017 are available until June 30, 2018, unless		
2.14	otherwise stated in the appropriation.		
2.15	Subd. 2. Definition		
2.16	"Trust fund" means the Minnesota		
2.17	environment and natural resources trust fund		
2.18	established under the Minnesota Constitution,		
2.19	article XI, section 14.		
2.20 2.21 2.22	Natural Resource Data and	7,872,000	-0-
2.23			
2.24	\$4,729,000 in fiscal year 2017 is from the trust		
2.25			
2.26	of Minnesota, Minnesota Geological Survey,		
2.27	to continue acceleration of the production of		
2.28	county geologic atlases for the purpose of		
2.29	sustainable management of surface water and		
2.30	groundwater resources. This appropriation is		
2.31	to complete Part A of county geologic atlases,		
2.32	which focuses on the properties and		
2.33	distribution of earth materials in order to		
2.34	define aquifer boundaries and the connection		
2.35	of aquifers to the land surface and surface		
2.36	water resources. This appropriation is		
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3.1	available until June 30, 2020, by which time
3.2	the project must be completed and final
3.3	products delivered.
3.4 3.5	(b) Assessment of Public Benefits of Protecting Source Water
3.6	\$320,000 the first year is from the trust fund
3.7	to the Board of Regents of the University of
3.8	Minnesota to map and quantify source water
3.9	risks, determine ecosystem service valuation
3.10	of clean water, and provide analyses of equity
3.11	and community capacity to improve decisions
3.12	about the protection and management of
3.13	groundwater and surface water. This
3.14	appropriation is available until June 30, 2020,
3.15	by which time the project must be completed
3.16	and final products delivered.
3.17 3.18	(c) Preserving Minnesota Prairie Plant Diversity - Phase II
3.19	\$900,000 the first year is from the trust fund
3.19 3.20	\$900,000 the first year is from the trust fund to the Board of Regents of the University of
	<u> </u>
3.20	to the Board of Regents of the University of
3.20 3.21	to the Board of Regents of the University of Minnesota to continue collecting and
3.20 3.21 3.22	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout
3.20 3.21 3.22 3.23	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial
3.20 3.21 3.22 3.23 3.24	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local
3.20 3.21 3.22 3.23 3.24 3.25	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity
3.20 3.21 3.22 3.23 3.24 3.25 3.26	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time the project must be completed and final
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered.
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (d) Minnesota Biological Survey - Continuation
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3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30 3.31 3.32	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (d) Minnesota Biological Survey - Continuation \$2,900,000 the first year is from the trust fund to the commissioner of natural resources for
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30 3.31 3.32 3.33	to the Board of Regents of the University of Minnesota to continue collecting and preserving germplasm of plants throughout Minnesota's prairie region, study the microbial effects that promote plant health, analyze local adaptation, and evaluate the adaptive capacity of prairie plant populations. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (d) Minnesota Biological Survey - Continuation \$2,900,000 the first year is from the trust fund to the commissioner of natural resources for continuation of the Minnesota biological

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4.1	delivering data on plant and animal
4.2	distribution and ecology, native plant
4.3	communities, and functional landscapes. This
4.4	appropriation is available until June 30, 2020,
4.5	by which time the project must be completed
4.6	and final products delivered.
4.7 4.8	(e) Minnesota Wildflowers Online Botanical Reference - Phase II
4.9	\$270,000 the first year is from the trust fund
4.10	to the commissioner of natural resources for
4.11	an agreement with Minnesota Wildflowers
4.12	Information to continue surveying and imaging
4.13	plant species and publishing species profiles
4.14	for a plant identification reference Web site
4.15	available to the public and land managers.
4.16	Images acquired and information compiled
4.17	using these funds are for purposes of public
4.18	information available on a Web site. If the
4.19	organization is no longer able to maintain the
4.20	Web site, the organization must work with the
4.21	state and the University of Minnesota, Bell
4.22	Museum of Natural History, to ensure the
4.23	materials remain publicly available on the
4.24	Web. This appropriation is available until June
4.25	30, 2020, by which time the project must be
4.26	completed and final products delivered.
4.27 4.28	(f) Assessment of Microbes for Improving Wild Rice Restoration
4.29	\$334,000 the first year is from the trust fund
4.30	to the Board of Regents of the University of
4.31	Minnesota, Natural Resources Research
4.32	<u>Institute</u> , to evaluate the microbial
4.33	communities and nutrients associated with
4.34	wild rice and competing vegetation, with the
4.35	goal of enhancing restoration success to
4.36	increase the abundance of wild rice. This

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5.1	appropriation is available until June 30, 2020,
5.2	by which time the project must be completed
5.3	and final products delivered.
5.4 5.5	(g) Drainage Records Modernization Cost Share - Phase II
5.6	\$540,000 the first year is from the trust fund
5.7	to the Board of Water and Soil Resources to
5.8	facilitate statewide modernization of public
5.9	drainage records under Minnesota Statutes,
5.10	chapter 103E, and integrate new specifications
5.11	into existing drainage records modernization
5.12	guidelines through matching cost-share grants
5.13	to drainage authorities. This appropriation is
5.14	available until June 30, 2020, by which time
5.15	the project must be completed and final
5.16	products delivered.
5.17	(h) Groundwater Contamination Mapping
5.18	\$400,000 the first year is from the trust fund
5.19	to the commissioner of the Pollution Control
5.20	Agency to develop a Web-based interactive
5.21	map of groundwater contamination to improve
5.22	protection of groundwater resources for
5.23	drinking water. This appropriation is available
5.24	until June 30, 2020, by which time the project
5.25	must be completed and final products
5.26	delivered.
5.27 5.28	(i) Landslide Susceptibility, Mapping, and Management Tools
5.29	\$500,000 the first year is from the trust fund
5.30	to the Board of Regents of the University of
5.31	Minnesota to create landslide susceptibility
5.32	maps using a landslide inventory and
5.33	quantitative analysis of LiDAR to provide
5.34	tools and data for mitigation and restoration
5.35	to reduce impacts on water resources. This
5.36	appropriation is available until June 30, 2020,

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6.1	by which ti	ime the project must	be completed
6.2	and final p	roducts delivered.	
6.3	(j) Moose	Calf Surveys and M	<u>lonitoring</u>
6.4	\$348,000 ti	he first year is from t	the trust fund
6.5	to the Boar	d of Regents of the U	University of
6.6	Minnesota	to assess the use of u	ınmanned
6.7	aerial vehic	cles in natural resour	ce monitoring
6.8	of moose p	opulations and chang	ges in
6.9	ecosystems	<u>5.</u>	
6.10 6.11		Creek Natural Area	a Wolf
6.12	\$398,000 t	he first year is from t	the trust fund
6.13	to the Boar	d of Regents of the U	University of
6.14	Minnesota,	, Cedar Creek Ecosys	stem Science
6.15	Reserve, to	assess wolf recoloniz	zation impacts
6.16	on wildlife,	, biodiversity, and nat	ural resources
6.17	and provide	e educational opportu	nities at Cedar
6.18	Creek Ecos	system Science Rese	rve. This
6.19	appropriati	on is available until J	une 30, 2020,
6.20	by which ti	ime the project must	be completed
6.21	and final p	roducts delivered.	
6.22 6.23	(l) Effects and Deer	of Wolf Predation o	on Beaver, Moose,
6.24	\$293,000 ti	he first year is from t	the trust fund
6.25	to the com	missioner of natural	resources for
6.26	an agreeme	ent with Voyageurs N	lational Park
6.27	to assess th	ne effects of wolf pre	dation on
6.28	beaver, mo	ose, and deer in the l	Border Lakes
6.29	region. Thi	s appropriation is av	ailable until
6.30	June 30, 20	20, by which time the	e project must
6.31	be complet	ed and final products	s delivered.
6.32 6.33	`	ing Taxonomy and law of Minnesota Fres	
6.34	\$258,000 ti	he first year is from t	the trust fund
6.35	to the Boar	d of Regents of the U	University of
6.36	Minnesota,	Crookston, to determ	ine freshwater

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7.1	sponge distribution, identify and quantify	
7.2	accumulated contaminants, and provide	
7.3	educational research opportunities to	
7.4	undergraduate students. This appropriation is	
7.5	available until June 30, 2020, by which time	
7.6	the project must be completed and final	
7.7	products delivered.	
7.8 7.9	(n) Analyzing Climate Data to Aid Local Planning Implementation Efforts	
7.10	\$411,000 the first year is from the trust fund	
7.11	to the Board of Regents of the University of	
7.12	Minnesota to produce localized climate	
7.13	information statewide to be used for long-term	
7.14	planning and implementation of management	
7.15	strategies at the local level for natural	
7.16	resources, infrastructure, and human health.	
7.17	This appropriation is available until June 30,	
7.18	2020, by which time the project must be	
7.19	completed and final products delivered.	
7.20	<u>Subd. 4.</u> <u>Water Resources</u> <u>-0-</u> <u>3,175,000</u>	0-
7.21 7.22	(a) Assessment of Household Chemicals and Herbicides in Rivers and Lakes	
7.23	\$236,000 the first year is from the trust fund	
7.24	to the Board of Regents of the University of	
7.25	Minnesota to quantify environmental levels	
7.26	of household chemical and herbicide	
7.27	ingredients in rivers and lakes and assess their	
7.28	potential to form toxic by-products.	
7.29 7.30	(b) Wastewater Nitrogen Removal Technology to Protect Water Quality	
7.31	\$450,000 the first year is from the trust fund	
7.32	to the Board of Regents of the University of	
7.33	Minnesota to develop a technology for	
7.34	inexpensive low-energy nitrogen removal in	
7.35	wastewater. This appropriation is subject to	
7.36	Minnesota Statutes, section 116P.10. This	

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8.1	appropriation is available until June 30, 2020,
8.2	by which time the project must be completed
8.3	and final products delivered.
8.4 8.5	(c) Rearing Native Mussels for Reintroduction and Expanding Water Quality Awareness
8.6	\$591,000 the first year is from the trust fund
8.7	to the Minnesota Zoological Garden in
8.8	cooperation with the Department of Natural
8.9	Resources to accelerate the reintroduction of
8.10	native mussels into Minnesota rivers and
8.11	streams through expanded mussel rearing,
8.12	research, and statewide educational activities
8.13	promoting mussel conservation and water
8.14	quality. This appropriation is available until
8.15	June 30, 2020, by which time the project must
8.16	be completed and final products delivered.
8.17 8.18	(d) Water Quality Monitoring in Southeastern Minnesota Trout Streams
8.19	\$500,000 the first year is from the trust fund
8.20	to the Board of Trustees of Minnesota State
8.21	Colleges and Universities, Winona State
8.22	University, to develop a system of biological
8.23	monitoring for water quality protection of trout
8.24	streams in southeastern Minnesota. This
8.25	appropriation is available until June 30, 2020,
8.26	by which time the project must be completed
8.27	and final products delivered.
8.28 8.29	(e) Reassessing Toxicity of Petrochemical Spills on Groundwater and Surface Waters
8.30	\$300,000 the first year is from the trust fund
8.31	to the commissioner of natural resources for
8.32	an agreement with the University of St.
8.33	Thomas to reassess long-term effects of oil
8.34	spills through the analysis of chemical
8.35	parameters related to oil degradation and
	parameters related to on degradation and

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9.1	groundwater, and surface waters. This
9.2	appropriation is available until June 30, 2021,
9.3	by which time the project must be completed
9.4	and final products delivered.
9.5	(f) Assessment of Water Quality for Reuse
9.6	\$148,000 the first year is from the trust fund
9.7	to the Board of Regents of the University of
9.8	Minnesota to collect and analyze pathogen
9.9	data for evaluation of water reuse in order to
9.10	maximize water reuse and protect groundwater
9.11	and surface water quality.
9.12 9.13	(g) Identification of Chemicals of Emerging Concern in Minnesota Fish
9.14	\$400,000 the first year is from the trust fund
9.15	to the commissioner of natural resources for
9.16	an agreement with the Grand Portage Band of
9.17	Lake Superior Chippewa to identify chemicals
9.18	of emerging concern and metals in fish, water,
9.19	and sediments from approximately 30 water
9.20	bodies in northeastern Minnesota used for
9.21	subsistence harvest and recreation. This
9.22	appropriation is available until June 30, 2020,
9.23	by which time the project must be completed
9.24	and final products delivered.
9.25 9.26	(h) Techniques for Water Storage Estimates in Central Minnesota
9.27	\$250,000 the first year is from the trust fund
9.28	to the Board of Regents of the University of
9.29	Minnesota to improve water storage estimates
9.30	in groundwater, soil moisture, streams, lakes,
9.31	and wetlands through integration of satellite
9.32	monitoring and ground-based measurements
9.33	in central Minnesota. This appropriation is
9.34	available until June 30, 2020, by which time
9.35	the project must be completed and final
9.36	products delivered.

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0.1	(i) Assessing Release of Mercury and Sulfur Aquatic Communities	<u>on</u>		
0.3	\$300,000 the first year is from the trust fund			
10.4	to the Board of Regents of the University of			
10.5	Minnesota to determine the effects of			
10.6	increased temperatures on the release of			
10.7	mercury and sulfur from Minnesota peatlands			
10.8	to predict impacts on aquatic communities and			
10.9	fish health. This appropriation is available			
10.10	until June 30, 2020, by which time the project			
10.11	must be completed and final products			
10.12	delivered.			
10.13 10.14	Subd. 5. Environmental Education	<u>-0-</u>	4,421,000	<u>-0-</u>
10.15 10.16	(a) Connecting Youth to Minnesota Waterwathrough Outdoor Classrooms	<u>ays</u>		
10.17	\$1,200,000 the first year is from the trust fund			
10.18	to the commissioner of natural resources for			
10.19	an agreement with Wilderness Inquiry to			
10.20	provide place-based environmental education			
10.21	science water experiences to approximately			
10.22	20,000 middle- and high-school students. This			
10.23	appropriation is available until June 30, 2020,			
10.24	by which time the project must be completed			
10.25	and final products delivered.			
10.26	(b) Youth Convening Minnesota - Phase II			
10.27	\$300,000 the first year is from the trust fund			
10.28	to the commissioner of natural resources for			
10.29	an agreement with Climate Generation: A Will			
10.30	Steger Legacy to plan and conduct forums,			
10.31	workshops, and training for youth on			
10.32	Minnesota's climate and its impact on natural			
10.33	resources. This appropriation is available until			
10.34	June 30, 2020, by which time the project must			
10.35	be completed and final products delivered.			
10.36 10.37	(c) Increasing Diversity in Environmental Careers			

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\$1,487,000 the first year is from the trust fund
to the commissioner of natural resources in
cooperation with Conservation Corps
Minnesota and Iowa to encourage a diversity
of students to pursue careers in environment
and natural resources through internships and
mentorships with the Department of Natural
Resources, the Board of Water and Soil
Resources, and the Pollution Control Agency.
This appropriation is available until June 30,
2022, by which time the project must be
completed and final products delivered.
(d) Interactive Water Resource Programs for
Planetariums in Minnesota
\$500,000 the first year is from the trust fund
to the Board of Regents of the University of
Minnesota, Bell Museum of Natural History,
to create an interactive planetarium program
on water resources, reaching approximately
400,000 citizens statewide through the Bell
Museum Planetarium, St. Paul Public Schools,
Mayo High School, Mankato East High
School, Southwest Minnesota State University,
Minnesota State University Moorhead, and
University of Minnesota Duluth. This
appropriation is available until June 30, 2022,
by which time the project must be completed
and final products delivered.
(e) Expanding Raptor Center Online Education
\$270,000 the first year is from the trust fund
to the Board of Regents of the University of
Minnesota, Raptor Center, to provide
environmental education for approximately
15,000 middle-school students and 600
teachers, combining classroom learning and
outdoor experiences with technology,

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12.1	scientific investigation of birds, and
12.2	conservation projects. This appropriation is
12.3	available until June 30, 2022, by which time
12.4	the project must be completed and final
12.5	products delivered.
12.6 12.7	(f) Local Planning and Implementation Efforts for Bird Habitat
12.8	\$280,000 the first year is from the trust fund
12.9	to the commissioner of natural resources for
12.10	an agreement with the National Audubon
12.11	Society, Minnesota office, to engage
12.12	approximately 60 communities and 400,000
12.13	citizens in bird habitat improvement through
12.14	local planning and implementation efforts
12.15	using the National Audubon Bird City
12.16	program. This appropriation is available until
12.17	June 30, 2020, by which time the project must
12.18	be completed and final products delivered.
12.10	et tempreted dire initial products delivered.
12.19 12.20	(g) Developing Youth Watershed Stewardship in Northwest Minnesota
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12.19 12.20	(g) Developing Youth Watershed Stewardship in Northwest Minnesota
12.19 12.20 12.21	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund
12.19 12.20 12.21 12.22	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for
12.19 12.20 12.21 12.22 12.23	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science
12.19 12.20 12.21 12.22 12.23 12.24	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental
12.19 12.20 12.21 12.22 12.23 12.24 12.25	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28 12.29	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation is available until June 30, 2020, by which time
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28 12.29 12.30	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation is available until June 30, 2020, by which time the project must be completed and final
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28 12.29 12.30 12.31 12.32	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (h) Increasing Residential Environmental
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28 12.29 12.30 12.31 12.32 12.33	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (h) Increasing Residential Environmental Learning Center Opportunities
12.19 12.20 12.21 12.22 12.23 12.24 12.25 12.26 12.27 12.28 12.29 12.30 12.31 12.32 12.33	(g) Developing Youth Watershed Stewardship in Northwest Minnesota \$121,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Headwaters Science Center to accelerate a multiyear environmental science club for middle-school students focused on water quality, watershed evaluation, and aquatic invasive species in northwestern Minnesota. This appropriation is available until June 30, 2020, by which time the project must be completed and final products delivered. (h) Increasing Residential Environmental Learning Center Opportunities \$130,000 the first year is from the trust fund

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13.1	North Woods to provide scholarship		
13.2	opportunities for a minimum of 1,000 students		
13.3	that are not currently served through other		
13.4	residential environmental education learning		
13.5	centers. This appropriation is available until		
13.6	June 30, 2020, by which time the project must		
13.7	be completed and final products delivered.		
13.8 13.9	(i) Workshops and Outreach to Protect Raptors from Lead Poisoning		
13.10	\$133,000 the first year is from the trust fund		
13.11	to the Board of Regents of the University of		
13.12	Minnesota, Raptor Center, in cooperation with		
13.13	the Department of Natural Resources and other		
13.14	conservation partners to provide hunters with		
13.15	outreach and workshops on alternatives to lead		
13.16	hunting ammunition, including copper		
13.17	ammunition as an alternative, and to promote		
13.18	voluntary selection of nontoxic ammunition		
13.19	to protect raptors and other wildlife in		
13.20	Minnesota from accidental lead poisoning		
13.21	caused by ingestion of ammunition fragments.		
13.22 13.23	Subd. 6. Aquatic and Terrestrial Invasive Species 2,700,000	2,021,000	<u>-0-</u>
13.24 13.25	(a) Aquatic Invasive Species Research Center - Phase II		
13.26	\$2,700,000 in fiscal year 2017 is from the trust		
13.27	fund to the Board of Regents of the University		
13.28	of Minnesota to support the Minnesota		
13.29	Aquatic Invasive Species Research Center in		
13.30	finding solutions to Minnesota's aquatic		
13.31	invasive species problems through research,		
13.32	control, prevention, and early detection of		
13.33	existing and emerging aquatic invasive species		
13.34	threats. This appropriation is available until		
13.35	June 30, 2021, by which time the project must		
13.36	be completed and final products delivered.		
13.37	(b) Emerald Ash Borer Biocontrol - Phase III		

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14.1	\$729,000 the first year is from the trust fund
14.2	to the commissioner of agriculture in
14.3	cooperation with the Board of Regents of the
14.4	University of Minnesota to implement
14.5	biocontrol of emerald ash borer using a newly
14.6	approved parasitic wasp, assess the impact of
14.7	the statewide program, and engage citizen
14.8	volunteers. This appropriation is available
14.9	until June 30, 2020, by which time the project
14.10	must be completed and final products
14.11	delivered.
14.12 14.13	(c) Invasive Bighead and Silver Carp and Native Fish Evaluation - Phase II
14.14	\$500,000 the first year is from the trust fund
14.15	to the commissioner of natural resources to
14.16	continue invasive bighead and silver carp
14.17	monitoring in the Mississippi River and
14.18	tributaries through advanced acoustic
14.19	telemetry and assess food chains to determine
14.20	how native species might prevent invasive
14.21	bighead and silver carp establishment. This
14.22	appropriation is available until June 30, 2020,
14.23	by which time the project must be completed
14.24	and final products delivered.
14.25 14.26	(d) Adapting Stream Barriers to Remove Common Carp
14.27	\$301,000 the first year is from the trust fund
14.28	to the Board of Regents of the University of
14.29	Minnesota to conduct field tests at existing
14.30	barrier sites and laboratory experiments to
14.31	adapt a technology to remove common carp
14.32	from streams during carp spawning migrations
14.33	in Minnesota.
14.34 14.35	(e) Tactical Invasive Plant Management Plan <u>Development</u>

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15.1	\$296,000 the first year is from the trust fund			
15.2	to the commissioner of agriculture in			
15.3	cooperation with the Board of Regents of the			
15.4	University of Minnesota to develop regional			
15.5	priorities and an interagency action plan for			
15.6	invasive plant management to protect and			
15.7	promote habitat and native species. This			
15.8	appropriation is available until June 30, 2020,			
15.9	by which time the project must be completed			
15.10	and final products delivered.			
15.11 15.12	(f) Maximize Value of Water Impoundment Wildlife	ts to		
15.13	\$195,000 the first year is from the trust fund			
15.14	to the commissioner of natural resources for			
15.15	an agreement with the National Audubon			
15.16	Society, Minnesota office, to control invasive			
15.17	hybrid cattails in water impoundments to			
15.18	improve habitat quality for migrating and			
15.19	breeding birds. This appropriation is available			
15.20	until June 30, 2020, by which time the project			
15.21	must be completed and final products			
15.22	delivered.			
15.23 15.24 15.25	Subd. 7. Air Quality, Climate Change, and Renewable Energy (a) Solar Colla Manufacturing Passarah	<u>-0-</u>	4,738,000	<u>-0-</u>
15.26	(a) Solar Cells Manufacturing Research			
15.27	\$388,000 the first year is from the trust fund			
15.28	to the Board of Regents of the University of			
15.29	Minnesota to develop inexpensive,			
15.30	high-efficiency solar energy by simple			
15.31	roll-to-roll advanced manufacturing			
15.32	technology using Perovskite, a new			
15.33	photovoltaic material. This appropriation is			
15.34	subject to Minnesota Statutes, section 116P.10.			
15.35	This appropriation is available until June 30,			
15.36	2020, by which time the project must be			
15.37	completed and final products delivered.			

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16.1 16.2	(b) Community-Scale Energy Storage Guide for Renewable Energy
16.3	\$500,000 the first year is from the trust fund
16.4	to the Board of Regents of the University of
16.5	Minnesota to create a research-based energy
16.6	storage guide for community-scale sites and
16.7	implement three geographically dispersed
16.8	battery storage demonstration projects. This
16.9	appropriation is available until June 30, 2020,
16.10	by which time the project must be completed
16.11	and final products delivered.
16.12 16.13	(c) Extraction of Solar Thermal Energy in Minnesota
16.14	\$250,000 the first year is from the trust fund
16.15	to the Board of Regents of the University of
16.16	Minnesota to develop new solar particle
16.17	receivers as a low-cost, high-efficiency, and
16.18	clean technology to absorb, store, and utilize
16.19	solar thermal energy. This appropriation is
16.20	subject to Minnesota Statutes, section 116P.10.
16.21	This appropriation is available until June 30,
16.22	2020, by which time the project must be
16.23	completed and final products delivered.
16.24	(d) Assessment of Urban Air Quality
16.25	\$700,000 the first year is from the trust fund
16.26	to the commissioner of the Pollution Control
16.27	Agency to set up and operate a network of 250
16.28	air pollution sensors at 50 sites to monitor fine
16.29	particles, ozone, nitrogen oxides, sulfur
16.30	dioxide, and carbon monoxide in each zip code
16.31	for the cities of Minneapolis and St. Paul to
16.32	assess variability of urban air pollution. This
16.33	appropriation is available until June 30, 2020,
16.34	by which time the project must be completed
16.35	and final products delivered.

17.1 17.2	(e) Generation, Storage, and Utilization of Solar Energy
17.3	\$500,000 the first year is from the trust fund
17.4	to the Board of Regents of the University of
17.5	Minnesota, West Central Research and
17.6	Outreach Center, Morris, to develop and
17.7	demonstrate an integrated facility to generate
17.8	electricity, shade dairy cattle, and provide
17.9	energy storage and utilization from solar
17.10	technologies at the West Central Research and
17.11	Outreach Center, Morris. This appropriation
17.12	is available until June 30, 2020, by which time
17.13	the project must be completed and final
17.14	products delivered.
17.15 17.16	(f) District Heating with Renewable Biomass at Camp Ripley Training Center
17.17	\$1,000,000 the first year is from the trust fund
17.18	to the commissioner of military affairs to
17.19	install a 5,000,000-BTU centralized biomass
17.20	boiler system utilizing the forestry
17.21	management at Camp Ripley. This
17.22	appropriation must be matched by at least
17.23	\$900,000 of nonstate money and must be
17.24	committed by December 31, 2017. This
17.25	appropriation is available until June 30, 2020,
17.26	by which time the project must be completed
17.27	and final products delivered.
17.28 17.29	(g) Geotargeted Distributed Clean Energy Initiative
17.30	\$800,000 the first year is from the trust fund
17.31	to the commissioner of natural resources for
17.32	an agreement with the Center for Energy and
17.33	Environment. Of this amount, \$600,000 is for
17.34	analysis of community-distributed clean
17.35	energy investments as alternatives to utility
17.36	capital investments for transmission and

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18.1	distribution upgrades to meet forecasted
18.2	electrical loads, and \$200,000 is to conduct
18.3	pilot programs using energy efficiency and
18.4	other distributed energy resources to achieve
18.5	forecasted electric energy loads in
18.6	communities. The appropriation for pilot
18.7	programs is contingent on a \$200,000 match
18.8	of an equal or greater amount of nonstate
18.9	money. This appropriation is available until
18.10	June 30, 2020, by which time the project must
18.11	be completed and final products delivered.
18.12 18.13	(h) Develop Solar-Powered Robots for Weed Control in Agricultural Fields
18.14	\$600,000 the first year is from the trust fund
18.15	to the Board of Regents of the University of
18.16	Minnesota, West Central Research and
18.17	Outreach Center, Morris, to develop and test
18.18	solar-powered robots to manage weeds in
18.19	pastures as a means to reduce herbicide use.
18.20	This appropriation is subject to Minnesota
18.21	Statutes, section 116P.10. This appropriation
18.22	is available until June 30, 2020, by which time
18.23	the project must be completed and final
18.24	products delivered.
18.25 18.26 18.27 18.28	Subd. 8. Methods to Protect or Restore Land, Water, and Habitat (a) Optimizing the Nutrition of Roadside Plants
18.29	for Pollinators
18.30	\$815,000 the first year is from the trust fund
18.31	to the Board of Regents of the University of
18.32	Minnesota in cooperation with the
18.33	Departments of Agriculture, Natural
18.34	Resources, and Transportation and the Board
18.35	of Water and Soil Resources to produce
18.36	site-specific recommendations for roadside
18.37	plantings in Minnesota to maximize the

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19.1	nutritional health of native bees and monarch
19.2	butterflies that rely on roadside habitat
19.3	corridors. This appropriation is available until
19.4	June 30, 2020, by which time the project must
19.5	be completed and final products delivered.
19.6 19.7	(b) Promoting Conservation Biocontrol of Beneficial Insects
19.8	\$400,000 the first year is from the trust fund
19.9	to the Board of Regents of the University of
19.10	Minnesota to research integrated pest
19.11	management strategies, including insecticide
19.12	alternatives, and overwintering habitat sites
19.13	to conserve beneficial insects, including bees,
19.14	butterflies, and predator insects. The integrated
19.15	pest management strategies will be used to
19.16	develop best management practices to increase
19.17	pollinator and beneficial insect diversity and
19.18	abundance in various restored habitats. This
19.19	appropriation is available until June 30, 2020,
19.20	by which time the project must be completed
19.21	and final products delivered.
19.22 19.23	(c) Evaluating the Use of Bison to Restore and Preserve Savanna Habitat
19.24	\$388,000 the first year is from the trust fund
19.25	to the Board of Regents of the University of
19.26	Minnesota, Cedar Creek Ecosystem Science
19.27	Reserve, to research combined bison grazing
19.28	and fire management strategies to restore
19.29	Minnesota's oak savanna ecosystems. This
19.30	appropriation is available until June 30, 2020,
19.31	by which time the project must be completed
19.32	and final products delivered.
19.33	(d) State Park Pollinator Habitat Restoration
19.34	\$672,000 the first year is from the trust fund
19.35	to the commissioner of natural resources to
19.36	restore at least 520 acres of monarch butterfly

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20.1	and other native pollinator habitats in at least
20.2	seven state parks in the Minnesota Prairie
20.3	Conservation Plan core areas and establish
20.4	pollinator plantings and interpretive exhibits
20.5	in at least ten state parks. This appropriation
20.6	is available until June 30, 2021, by which time
20.7	the project must be completed and final
20.8	products delivered.
20.9 20.10	(e) Enhancing Spawning Habitat Restoration in Minnesota Lakes
20.11	\$294,000 the first year is from the trust fund
20.12	to the Board of Regents of the University of
20.13	Minnesota, St. Anthony Falls Laboratory, in
20.14	cooperation with the Department of Natural
20.15	Resources to enhance efforts to increase
20.16	natural reproduction of fish in Minnesota lakes
20.17	by assessing wave energy impacts on
20.18	near-shore spawning habitat. This
20.19	appropriation is available until June 30, 2020,
20.20	by which time the project must be completed
20.21	and final products delivered.
20.22 20.23	(f) Prescribed-Fire Management for Roadside Prairies
20.24	\$345,000 the first year is from the trust fund
20.25	to the commissioner of transportation to
20.26	enhance the prescribed-fire program to manage
20.27	roadsides to protect and increase biodiversity
20.27	and pollinator habitat. This appropriation is
20.29	available until June 30, 2020, by which time
20.30	the project must be completed and final
20.31	products delivered.
20.3220.33	(g) Minnesota Bee and Beneficial Species Habitat Restoration
20.34	\$732,000 the first year is from the trust fund
20.35	to the commissioner of natural resources for
20.36	an agreement with Pheasants Forever in

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21.1	cooperation with the University of Minnesota
21.2	and the Minnesota Honey Producers
21.3	Association to restore approximately 800 acres
21.4	of permanently protected land to enhance bee,
21.5	butterfly, beneficial insect, and grassland bird
21.6	habitats. This appropriation is available until
21.7	June 30, 2021, by which time the project must
21.8	be completed and final products delivered.
21.9 21.10 21.11	(h) Mississippi and Vermillion Rivers Restoration of Prairie, Savanna, and Forest Habitat - Phase X
21.12	\$213,000 the first year is from the trust fund
21.13	to the commissioner of natural resources for
21.14	an agreement with Friends of the Mississippi
21.15	River for continued implementation of the
21.16	Metro Conservation Corridors partnership by
21.17	improving at least 80 acres of habitat at
21.18	approximately seven sites along the
21.19	Mississippi River and Vermillion River
21.20	corridors. Expenditures are limited to the
21.21	identified project corridor areas as defined in
21.22	the work plan. A list of proposed restoration
21.23	sites must be provided as part of the required
21.24	work plan. Plant and seed materials must
21.25	follow the Board of Water and Soil Resources'
21.26	native vegetation establishment and
21.27	enhancement guidelines. This appropriation
21.28	is available until June 30, 2020, by which time
21.29	the project must be completed and final
21.30	products delivered.
21.31 21.32	(i) Community Stewardship to Restore Urban Natural Resources - Phase X
21.33	\$524,000 the first year is from the trust fund
21.34	to the commissioner of natural resources for
21.35	an agreement with Great River Greening to
21.36	work with volunteers for continued
21.37	implementation of the Metro Conservation

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22.1	Corridors partnership to restore approximately
22.2	250 acres of forest, prairie, woodland, wetland,
22.3	and shoreline throughout the greater Twin
22.4	Cities metropolitan area. Expenditures are
22.5	$\underline{\text{limited to the identified project corridor areas}}$
22.6	as defined in the work plan. A list of proposed
22.7	restoration sites and evaluations must be
22.8	provided as part of the required work plan.
22.9	$\underline{\textbf{Plant and seed materials must follow the Board}}$
22.10	$\underline{of\ Water\ and\ Soil\ Resources'\ native\ vegetation}$
22.11	establishment and enhancement guidelines.
22.12	This appropriation is available until June 30,
22.13	2020, by which time the project must be
22.14	completed and final products delivered.
22.15	(j) Economic Assessment of Precision
22.16	Conservation and Agriculture
22.17	\$400,000 the first year is from the trust fund
22.18	to the commissioner of natural resources for
22.19	an agreement with Pheasants Forever to
22.20	demonstrate a new approach to promote
22.21	conservation practices utilizing
22.22	return-on-investment analysis and identifying
22.23	revenue-negative acres on agricultural land to
22.24	assist farmers in implementing conservation
22.25	practices that will provide environmental and
22.26	economic benefits. This appropriation is
22.27	available until June 30, 2020, by which time
22.28	the project must be completed and final
22.29	products delivered.
22.30 22.31	(k) Mississippi River Habitat Restoration Planning at Halls Island
22.32	\$25,000 the first year is from the trust fund to
22.33	the commissioner of natural resources for an
22.34	agreement with the Minneapolis Park and
22.35	Recreation Board to develop a habitat
22.36	restoration plan to guide the development,

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23.1	engineering, and construction of Halls Island
23.2	in the Mississippi River. The plan must be
23.3	coordinated with the Department of Natural
23.4	Resources and the United States Army Corps
23.5	of Engineers. This appropriation is available
23.6	until June 30, 2022, by which time the project
23.7	must be completed and final products
23.8	<u>delivered.</u>
23.9 23.10	(l) Conservation Reserve Enhancement Program (CREP) Outreach and Implementation
23.11	\$6,000,000 the first year is from the trust fund
23.12	to the Board of Water and Soil Resources to
23.13	fund staff at soil and water conservation
23.14	districts to assist landowners participating in
23.15	the federal Conservation Reserve
23.16	Enhancement Program. This appropriation is
23.17	contingent upon receipt of federal funds for
23.18	implementation. This appropriation is
23.19	available until June 30, 2020, by which time
23.20	the project must be completed and final
23.21	products delivered.
23.22 23.23	Subd. 9. Land Acquisition, Habitat, and Recreation 999,000 16,358,000 -0-
23.24 23.25	(a) Metropolitan Regional Parks System Land Acquisition
23.26	\$1,500,000 the first year is from the trust fund
23.27	to the Metropolitan Council for grants to
23.28	acquire approximately 197 acres of land within
23.29	the approved park boundaries of the
23.30	metropolitan regional park system. This
23.31	appropriation may not be used to purchase
23.32	habitable residential structures. A list of
23.33	proposed fee title acquisitions must be
23.34	provided as part of the required work plan.
23.35	This appropriation must be matched by at least
23.36	40 percent of nonstate money that must be
23.37	committed by December 31, 2017. This

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24.1	appropriation is available until June 30, 2020,
24.2	by which time the project must be completed
24.3	and final products delivered.
24.4 24.5	(b) Scientific and Natural Areas Acquisition and Restoration, Citizen Science, and Engagement
24.6	\$4,500,000 the first year is from the trust fund
24.7	to the commissioner of natural resources to
24.8	acquire at least 250 acres of land with
24.9	high-quality native plant communities and rare
24.10	features to be established as scientific and
24.11	natural areas as provided in Minnesota
24.12	Statutes, section 86A.05, subdivision 5, restore
24.13	and improve at least 1,000 acres of scientific
24.14	and natural areas, and provide technical
24.15	assistance and outreach, including site steward
24.16	events. At least one-third of the appropriation
24.17	must be spent on restoration activities. A list
24.18	of proposed acquisitions and restorations must
24.19	be provided as part of the required work plan.
24.20	Land acquired with this appropriation must
24.21	be sufficiently improved to meet at least
24.22	minimum management standards, as
24.23	determined by the commissioner of natural
24.24	resources. When feasible, consideration must
24.25	be given to accommodate trails on lands
24.26	acquired. This appropriation is available until
24.27	June 30, 2020, by which time the project must
24.28	be completed and final products delivered.
24.29 24.30	(c) Minnesota State Parks and State Trails Land Acquisition
24.31	\$1,500,000 the first year is from the trust fund
24.32	to the commissioner of natural resources to
24.33	acquire approximately 373 acres from willing
24.34	sellers for authorized state trails and critical
24.35	parcels within the statutory boundaries of state
24.36	parks. State park land acquired with this

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25.1	appropriation must be sufficiently improved
25.2	to meet at least minimum management
25.3	standards, as determined by the commissioner
25.4	of natural resources. A list of proposed
25.5	acquisitions must be provided as part of the
25.6	required work plan. This appropriation is
25.7	available until June 30, 2020, by which time
25.8	the project must be completed and final
25.9	products delivered.
25.10 25.11	(d) Minnesota State Trails Acquisition, Development, and Enhancement
25.12	\$999,000 in fiscal year 2017 and \$39,000 the
25.13	first year are from the trust fund to the
25.14	commissioner of natural resources for state
25.15	trail acquisition, development, and
25.16	enhancement in southern Minnesota. A
25.17	proposed list of trail projects on authorized
25.18	state trails must be provided as part of the
25.19	required work plan. This appropriation is
25.20	available until June 30, 2020, by which time
25.21	the project must be completed and final
25.22	products delivered.
25.23 25.24	(e) Native Prairie Stewardship and Prairie Bank Easement Acquisition
25.25	\$3,500,000 the first year is from the trust fund
25.26	to the commissioner of natural resources to
25.27	acquire native prairie bank easements in
25.28	accordance with Minnesota Statutes, section
25.29	84.96, on approximately 335 acres, prepare
25.30	baseline property assessments, restore and
25.31	enhance at least 570 acres of native prairie
25.32	sites, and provide technical assistance to
25.33	landowners. Of this amount, up to \$132,000
25.34	may be deposited in a conservation easement
25.35	stewardship account. Deposits into the
25.36	conservation easement stewardship account

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26.1	must be made upon closing on conservation				
26.2	easements or at a time otherwise approved in				
26.3	the work plan. A list of proposed easement				
26.4	acquisitions must be provided as part of the				
26.5	required work plan. This appropriation is				
26.6	available until June 30, 2020, by which time				
26.7	the project must be completed and final				
26.8	products delivered.				
26.9	(f) Leech Lake Acquisition				
26.10	\$1,500,000 the first year is from the trust fund				
26.11	to the commissioner of natural resources for				
26.12	an agreement with the Leech Lake Band of				
26.13	Ojibwe to acquire approximately 45 acres,				
26.14	including 0.67 miles of shoreline of				
26.15	high-quality aquatic and wildlife habitat at the				
26.16	historic meeting place between Henry				
26.17	Schoolcraft and the Anishinabe people. The				
26.18	land must be open to public use including				
26.19	hunting and fishing. The band must provide a				
26.20	commitment that land will not be put in a				
26.21	federal trust through the Bureau of Indian				
26.22	Affairs.				
26.23	(g) Mesabi Trail Development				
26.24	\$2,269,000 the first year is from the trust fund				
26.25	to the commissioner of natural resources for				
26.26	an agreement with the St. Louis and Lake				
26.27	Counties Regional Railroad Authority for				
26.28	engineering and constructing segments of the				
26.29	Mesabi Trail. This appropriation is available				
26.30	until June 30, 2020, by which time the project				
26.31	must be completed and final products				
26.32	delivered.				
26.33 26.34	(h) Tower Trailhead Boat Landing and Habitat Improvement - Phase II				
26.35	\$600,000 the first year is from the trust fund				
26.36	to the commissioner of natural resources for				

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27.1	an agreement with the city of Tower to	
27.2	construct a trailhead and boat landing and	
27.3	restore vegetative habitat on city-owned	
27.4	property. Plant and seed materials must follow	
27.5	the Board of Water and Soil Resources' native	
27.6	vegetation establishment and enhancement	
27.7	guidelines. This appropriation is available until	
27.8	June 30, 2020, by which time the project must	
27.9	be completed and final products delivered.	
27.10 27.11	(i) Land Acquisition for Voyageurs National Park Crane Lake Visitors Center	
27.12	\$950,000 the first year is from the trust fund	
27.13	to the commissioner of natural resources for	
27.14	an agreement with the town of Crane Lake, in	
27.15	partnership with Voyageurs National Park and	
27.16	the Department of Natural Resources, to	
27.17	acquire approximately 30 acres to be used for	
27.18	a visitor center and campground. Income	
27.19	generated by the campground may be used to	
27.20	support the facility.	
27.21 27.22	Subd. 10. Administration and Contract Agreement Reimbursement -0- 1,339,500	0
27.23	<u> </u>	-0-
27.24	(a) Contract Agreement Reimbursement	
27.25	\$135,000 the first year is from the trust fund	
27.26	to the commissioner of natural resources, at	
27.27	the direction of the Legislative-Citizen	
27.28	Commission on Minnesota Resources, for	
27.29	expenses incurred for contract agreement	
27.30	reimbursement for the agreements specified	
27.31	in this section. The commissioner shall provide	
27.32	documentation to the Legislative-Citizen	
27.33	Commission on Minnesota Resources on the	
27.34	expenditure of these funds.	
27.35 27.36	(b) Legislative-Citizen Commission on Minnesota Resources (LCCMR) Administration	

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28.1	\$1,200,000 the first year is from the trust fund				
28.2	to the Legislative-Citizen Commission on				
28.3	Minnesota Resources for administration in				
28.4	fiscal years 2018 and 2019 as provided in				
28.5	Minnesota Statutes, section 116P.09,				
28.6	subdivision 5.				
28.7 28.8	(c) Legislative Coordinating Commission Legacy Web site				
28.9	\$4,500 the second year is from the trust fund				
28.10	to the Legislative Coordinating Commission				
28.11	for the Web site required in Minnesota				
28.12	Statutes, section 3.303, subdivision 10.				
28.13	Subd. 11. Availability of Appropriations				
28.14	Money appropriated in this section may not				
28.15	be spent on activities unless they are directly				
28.16	related to and necessary for a specific				
28.17	appropriation and are specified in the work				
28.18	plan approved by the Legislative-Citizen				
28.19	Commission on Minnesota Resources. Money				
28.20	appropriated in this section must not be spent				
28.21	on indirect costs or other institutional overhead				
28.22	charges that are not directly related to and				
28.23	necessary for a specific appropriation. Costs				
28.24	that are directly related to and necessary for				
28.25	an appropriation, including financial services,				
28.26	human resources, information services, rent,				
28.27	and utilities, are eligible only if the costs can				
28.28	be clearly justified and individually				
28.29	documented specific to the appropriation's				
28.30	purpose and would not be generated by the				
28.31	recipient but for receipt of the appropriation.				
28.32	No broad allocations for costs in either dollars				
28.33	or percentages are allowed. Unless otherwise				
28.34	provided, the amounts in this section are				
28.35	available until June 30, 2019, when projects				
28.36	must be completed and final products				

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29.1	delivered. For acquisition of real property, the				
29.2	appropriations in this section are available for				
29.3	an additional fiscal year if a binding contract				
29.4	for acquisition of the real property is entered				
29.5	into before the expiration date of the				
29.6	appropriation. If a project receives a federal				
29.7	grant, the time period of the appropriation is				
29.8	extended to equal the federal grant period.				
29.9	Subd. 12. Data Availability Requirements				
29.10	Data collected by the projects funded under				
29.11	this section must conform to guidelines and				
29.12	standards adopted by MN.IT Services. Spatial				
29.13	data must also conform to additional				
29.14	guidelines and standards designed to support				
29.15	data coordination and distribution that have				
29.16	been published by the Minnesota Geospatial				
29.17	Information Office. Descriptions of spatial				
29.18	data must be prepared as specified in the state's				
29.19	geographic metadata guideline and must be				
29.20	submitted to the Minnesota Geospatial				
29.21	Information Office. All data must be				
29.22	accessible and free to the public unless made				
29.23	private under the Data Practices Act,				
29.24	Minnesota Statutes, chapter 13. To the extent				
29.25	practicable, summary data and results of				
29.26	projects funded under this section should be				
29.27	readily accessible on the Internet and				
29.28	identified as having received funding from the				
29.29	environment and natural resources trust fund.				
29.30	Subd. 13. Project Requirements				
29.31	(a) As a condition of accepting an				
29.32	appropriation under this section, an agency or				
29.33	entity receiving an appropriation or a party to				
29.34	an agreement from an appropriation must				
29.35	comply with paragraphs (b) to (l) and				

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30.11 <u>Resources.</u>

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30.13 section that conducts a restoration using funds appropriated in this section must use native 30.14 plant species according to the Board of Water 30.15 and Soil Resources' native vegetation 30.16 establishment and enhancement guidelines 30.17 and include an appropriate diversity of native 30.18 species selected to provide habitat for 30.19 pollinators throughout the growing season as 30.20 required under Minnesota Statutes, section 30.21 84.973. 30.22

the amendment process established by the

Legislative-Citizen Commission on Minnesota

(b) A recipient of money appropriated in this

appropriated under this section, a recipient
must prepare an ecological restoration and
management plan that, to the degree
practicable, is consistent with the highest
quality conservation and ecological goals for
the restoration site. Consideration should be
given to soil, geology, topography, and other
relevant factors that would provide the best
chance for long-term success and durability
of the restoration project. The plan must
include the proposed timetable for
implementing the restoration, including site

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35.1	flow needs or match federal money. The					
35.2	advances must be approved as part of the work					
35.3	plan. No expenditures for capital equipment					
35.4	are allowed unless expressly authorized in the					
35.5	project work plan.					
35.6	(b) Single-source contracts as specified in the					
35.7	approved work plan are allowed.					
35.8 35.9	Subd. 15. Purchase of Recycled and Recyclable Materials					
35.10	A political subdivision, public or private					
35.11	corporation, or other entity that receives an					
35.12	appropriation under this section must use the					
35.13	appropriation in compliance with Minnesota					
35.14	Statutes, section 16C.0725, regarding purchase					
35.15	of recycled, repairable, and durable materials					
35.16	and Minnesota Statutes, section 16C.073,					
35.17	regarding purchase and use of paper stock and					
35.18	printing.					
35.19 35.20	Subd. 16. Energy Conservation and Sustainable Building Guidelines					
35.20	Building Guidelines					
35.20 35.21	A recipient to whom an appropriation is made					
35.20 35.21 35.22	A recipient to whom an appropriation is made under this section for a capital improvement					
35.20 35.21 35.22 35.23	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies					
35.20 35.21 35.22 35.23 35.24	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and					
35.20 35.21 35.22 35.23 35.24 35.25	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards					
35.20 35.21 35.22 35.23 35.24 35.25 35.26	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28 35.29	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28 35.29 35.30	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy planning, advocacy, and State Energy Office					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28 35.29 35.30 35.31	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy planning, advocacy, and State Energy Office units of the Department of Commerce to					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28 35.29 35.30 35.31 35.32	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy planning, advocacy, and State Energy Office units of the Department of Commerce to obtain information and technical assistance					
35.20 35.21 35.22 35.23 35.24 35.25 35.26 35.27 35.28 35.29 35.30 35.31 35.32 35.33	A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy planning, advocacy, and State Energy Office units of the Department of Commerce to obtain information and technical assistance on energy conservation and alternative energy					

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36.1	Structural and nonstructural facilities must						
36.2	meet the design standards in the Americans						
36.3	with Disabilities Act (ADA) accessibility						
36.4	guidelines.						
36.5	Subd. 18. Carryforward; Extension						
36.6	(a) The availability of the appropriations for						
36.7	the following pr	rojects are extend	ded to June				
36.8	<u>30, 2018:</u>						
36.9	(1) Laws 2014,	chapter 226, sec	tion 2,				
36.10	subdivision 3, p	oaragraph (d), Ev	aluation of				
36.11	Wastewater Nitr	rogen and Estrog	en Treatment				
36.12	Options;						
36.13	(2) Laws 2014,	chapter 226, sec	tion 2,				
36.14	subdivision 4, p	oaragraph (f), Bro	<u>own</u>				
36.15	Marmorated Sti	nk Bug Monitori	ing and				
36.16	Bio-Control Ev	aluation;					
36.17	(3) Laws 2014,	chapter 226, sec	tion 2,				
36.18	subdivision 6, p	aragraph (h), Nut	rient Capture				
36.19	through Water I	Management and	Biomass				
36.20	Harvesting;						
36.21	(4) Laws 2015,	chapter 76, secti	on 2,				
36.22	subdivision 3, p	oaragraph (1), Gei	netic and				

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the following projects are extended to June

(6) Laws 2015, chapter 76, section 2,

subdivision 10, Emerging Issues Account.

(b) The availability of the appropriations for

Camera Techniques to Estimate Carnivore

(5) Laws 2015, chapter 76, section 2,

subdivision 7, paragraph (c), Building

Emissions and Solid Waste; and

Deconstruction to Reduce Greenhouse Gas

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36.33 30, 2019:

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Populations;

(1) Laws 2014, chapter 226, section 2, 37.1 subdivision_10, paragraph (c), 37.2 37.3 Legislative-Citizen Commission on Minnesota Resources (LCCMR) as extended by Laws 37.4 2016, chapter 186, section 2, subdivision 18, 37.5 clause (8); 37.6 37.7 (2) Laws 2015, chapter 76, section 2, 37.8 subdivision 7, paragraph (a), Renewable and Sustainable Fertilizers Produced Locally; 37.9 37.10 (3) Laws 2015, chapter 76, section 2, subdivision 8, paragraph (h), Improving 37.11 Community Forests Through Citizen 37.12 Engagement; and 37.13 (4) Laws 2016, chapter 186, section 2, 37.14 subdivision 9, paragraph (b), Minnesota Point 37.15 Pine Forest Scientific and Natural Area 37.16 Acquisition. 37.17 Sec. 3. Minnesota Statutes 2016, section 116P.05, subdivision 2, is amended to read: 37.18 37.19 Subd. 2. **Duties.** (a) The commission shall recommend an annual or biennial legislative bill for appropriations from the environment and natural resources trust fund and shall adopt 37.20 a strategic plan as provided in section 116P.08. Approval of the recommended legislative 37.21 bill requires an affirmative vote of at least 12 members of the commission. 37.22 (b) It is a condition of acceptance of the appropriations made from the Minnesota 37.23 environment and natural resources trust fund, and oil overcharge money under section 4.071, 37.24 37.25 subdivision 2, that the agency or entity receiving the appropriation must submit a work plan and annual or semiannual progress reports in the form determined by the Legislative-Citizen 37.26 Commission on Minnesota Resources, and comply with applicable reporting requirements 37.27 under section 116P.16. None of the money provided may be spent unless the commission 37.28

has approved the pertinent work plan. Modifications to the approved work plan and budget

expenditures shall be made through the amendment process established by the commission.

The commission shall ensure that the expenditures and outcomes described in the work plan

for appropriations funded by the environment and natural resources trust fund are met.

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- (c) The peer review procedures created under section 116P.08 must also be used to review, comment, and report to the commission on research proposals applying for an appropriation from the oil overcharge money under section 4.071, subdivision 2.
 - (d) The commission may adopt operating procedures to fulfill its duties under this chapter.
- (e) As part of the operating procedures, the commission shall:
- (1) ensure that members' expectations are to participate in all meetings related to funding decision recommendations;
- (2) recommend adequate funding for increased citizen outreach and communications for trust fund expenditure planning;
- 38.10 (3) allow administrative expenses as part of individual project expenditures based on need;
- 38.12 (4) provide for project outcome evaluation;

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- 38.13 (5) keep the grant application, administration, and review process as simple as possible; 38.14 and
- 38.15 (6) define and emphasize the leveraging of additional sources of money that project proposers should consider when making trust fund proposals.
- Sec. 4. Minnesota Statutes 2016, section 116P.17, subdivision 1, is amended to read:
 - Subdivision 1. **Commissioner approval.** (a) A recipient of an appropriation from the trust fund who acquires an interest in real property must receive written approval from the commissioner of natural resources prior to the acquisition, if the interest is acquired in whole or in part with the appropriation. A recipient must request the commissioner's approval at least ten business days before the proposed acquisition. When a recipient requests approval under this subdivision, the recipient must simultaneously submit the same information to the commission. Conservation easements to be held by the Board of Water and Soil Resources, acquisitions of land in the metropolitan regional recreation open space systems as defined under section 473.351, subdivision 1, with appropriations to the Metropolitan Council, and acquisitions specifically identified in appropriation laws are not subject to commissioner approval under this section.
- 38.29 (b) The commissioner shall approve acquisitions under this section only when the interest in real property:

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

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

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Sec. 4. 39