## SENATE STATE OF MINNESOTA EIGHTY-NINTH SESSION

A bill for an act

relating to natural resources; appropriating money from environment and natural

resources trust fund; adding requirements for use of trust fund money; proposing

S.F. No. 2963

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

DATE D-PG OFFICIAL STATUS

03/17/2016 5122 Introduction and first reading Referred to Finance

04/28/2016 Comm report: To pass as amended Second reading

1.1

1.2

1.3

coding for new law in Minnesota Statutes, chapter 116P. 1.4 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA: 1.5 Section 1. APPROPRIATIONS. 1.6 The sums shown in the columns marked "Appropriations" are appropriated to the 1.7 agencies and for the purposes specified in this act. The appropriations are from the 1.8 environment and natural resources trust fund, or another named fund, and are available for 19 the fiscal years indicated for each purpose. The figures "2016" and "2017" used in this act 1.10 mean that the appropriations listed under them are available for the fiscal year ending June 1 11 30, 2016, or June 30, 2017, respectively. "The first year" is fiscal year 2016. "The second 1.12 year" is fiscal year 2017. "The biennium" is fiscal years 2016 and 2017. 1.13 **APPROPRIATIONS** 1.14 Available for the Year 1.15 1.16 **Ending June 30** 2017 1 17 2016 Sec. 2. MINNESOTA RESOURCES 1.18 Subdivision 1. Total Appropriation \$ -0- \$ 46,337,000 1.19 Appropriations by Fund 1.20 2016 2017 1 21

Sec. 2.

-0-

46,337,000

Environment and

natural resources

trust fund

1.22

1.23

2.1	The amounts that may be spent for each		
2.2	purpose are specified in the following		
2.3	subdivisions. Appropriations are available		
2.4	for two years beginning July 1, 2016, unless		
2.5	otherwise stated in the appropriation. Any		
2.6	unencumbered balance remaining in the		
2.7	first year does not cancel and is available		
2.8	for the second year or until the end of the		
2.9	appropriation.		
2.10	Subd. 2. <b>Definition.</b>		
2.11	"Trust fund" means the Minnesota		
2.12	environment and natural resources trust fund		
2.13	established under Minnesota Constitution,		
2.14	article XI, section 14.		
2.15 2.16	Subd. 3. Foundational Natural Resource Data and Information	<u>-0-</u>	8,328,000
2.17 2.18	(a) Data-Driven Pollinator Conservation <u>Strategies</u>		
2.19	\$520,000 the second year is from the trust		
2.20	fund to the Board of Regents of the University		
2.21	of Minnesota to improve understanding of the		
2.22	relationships and interactions between native		
2.23	bee pollinators and rare and declining plant		
2.24	species and to determine optimal placement		
2.25	and species plantings for pollinator habitat		
2.26	in order to develop guidelines for planning,		
2.27	designing, and planting pollinator habitat.		
2.28	This appropriation is available until June		
2.29	30, 2019, by which time the project must be		
2.30	completed and final products delivered.		
2.31 2.32	(b) Native Bee Surveys in Minnesota Prairie and Forest Habitats		
2.33	\$600,000 the second year is from the trust		
2.34	fund to the commissioner of natural resources		
2.35	to continue to assess the current status and		

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as introduced

3.1	distribution of native bee pollinators in
3.2	Minnesota by expanding surveys into the
3.3	prairie-forest border region and facilitating
3.4	interagency collaboration and public
3.5	outreach on pollinators. This appropriation
3.6	is available until June 30, 2019, by which
3.7	time the project must be completed and final
3.8	products delivered.
3.9 3.10	(c) Prairie Butterfly Conservation, Research, and Breeding - Phase II
3.11	\$750,000 the second year is from the trust
3.12	fund. Of this amount, \$421,000 is to the
3.13	Minnesota Zoological Garden and \$329,000
3.14	is to the commissioner of natural resources in
3.15	collaboration with the United States Fish and
3.16	Wildlife Service to continue efforts to prevent
3.17	the extinction of imperiled native Minnesota
3.18	butterfly species through breeding, research,
3.19	field surveys, and potential reintroduction.
3.20	This appropriation is available until June
3.21	30, 2019, by which time the project must be
3.22	completed and final products delivered.
3.23 3.24	(d) Statewide Monitoring Network for Changing Habitats in Minnesota
3.25	\$500,000 the second year is from the
3.26	trust fund to the commissioner of natural
3.27	resources to develop a consolidated statewide
3.28	network of permanent habitat monitoring
3.29	sites in prairies, forests, and wetlands to
3.30	help guide and prioritize habitat protection
3.31	and management decisions in response to
3.32	environmental change. The design and
3.33	testing methodologies of monitoring plots
3.34	must address the status of pollinators and
3.35	pollination. This appropriation is available
3.36	until June 30, 2019, by which time the

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4.1	project must be completed and final products
4.2	delivered.
4.3 4.4	(e) Completing National Wetland Inventory Update for Minnesota
4.5	\$1,500,000 the second year is from the trust
4.6	fund to the commissioner of natural resources
4.7	to complete the update and enhancement
4.8	of wetland inventory maps for counties in
4.9	central and northwestern Minnesota. This
4.10	appropriation is available until June 30,
4.11	2019, by which time the project must be
4.12	completed and final products delivered.
4.13 4.14	(f) Minnesota Vegetative Buffer Assessment and Prioritization to Protect Water Quality
4.15	\$170,000 the second year is from the
4.16	trust fund to the Board of Regents of
4.17	the University of Minnesota to develop
4.18	a geographic information system (GIS)
4.19	assessment of riparian vegetative buffers
4.20	in 70 agricultural counties in Minnesota
4.21	using aerial imagery and light detection and
4.22	ranging (LiDAR) terrain analysis in order to
4.23	protect water quality.
4.24 4.25 4.26	(g) Assessment Tool for Understanding Vegetation Growth Impacts on Groundwater Recharge
4.27	\$212,000 the second year is from the
4.28	trust fund to the Board of Regents of the
4.29	University of Minnesota to develop a
4.30	statewide assessment tool to help understand
4.31	the relationship between vegetation growth
4.32	and impacts on groundwater recharge
4.33	under changing land use and climate. This
4.34	appropriation is available until June 30,
4.35	2019, by which time the project must be
4.36	completed and final products delivered.

as introduced

5.1 5.2	(h) Sentinel Lakes Monitoring and Data Synthesis – Phase III
5.3	\$401,000 the second year is from the trust
5.4	fund to the commissioner of natural resources
5.5	for the third and final phase of a monitoring
5.6	and multidisciplinary research effort on
5.7	25 sentinel lakes in Minnesota, which will
5.8	integrate and synthesize previously collected
5.9	data to enhance understanding of how
5.10	lakes respond to large-scale environmental
5.11	stressors and provide for improved ability
5.12	to predict and respond to lake changes
5.13	for water and fisheries management. This
5.14	appropriation is available until June 30,
5.15	2019, by which time the project must be
5.16	completed and final products delivered.
5.17 5.18	(i) State Spring Inventory for Resource Management and Protection - Phase II
5.19	\$370,000 the second year is from the trust
5.20	fund to the commissioner of natural resources
5.21	to continue a systematic inventory of springs
5.22	statewide to provide fundamental data
5.23	needed to maintain spring flows and protect
5.24	groundwater-dependent resources. Increased
5.25	outreach to the public and other entities must
5.26	be conducted to assist in the identification,
5.27	documentation, and publication of spring
5.28	locations. This appropriation is available
5.29	until June 30, 2019, by which time the
5.30	project must be completed and final products
5.31	delivered.
5.32 5.33	(j) Enhancing Understanding of Minnesota River Aquatic Ecosystem
5.34	\$500,000 the second year is from the trust
5.35	fund to the commissioner of natural resources
5.36	to accelerate collection of baseline data to

6.1	enhance understanding of the Minnesota
6.2	River ecosystem, measure future impacts
6.3	of changing climate and landscapes on
6.4	the aquatic ecosystem, and guide future
6.5	management efforts. This appropriation
6.6	is available until June 30, 2019, by which
6.7	time the project must be completed and final
6.8	products delivered.
6.9 6.10	(k) Improving Brook Trout Stream Habitat Through Beaver Management
6.11	\$225,000 the second year is from the
6.12	trust fund to the Board of Trustees of the
6.13	Minnesota State Colleges and Universities
6.14	system for Bemidji State University to
6.15	quantify how beaver activity influences
6.16	habitat quality in streams for brook trout in
6.17	northeastern Minnesota in order to improve
6.18	current and future management practices.
6.19	This appropriation is available until June
6.20	30, 2019, by which time the project must be
6.21	completed and final products delivered.
6.22 6.23	(l) Evaluate Temperature, Streamflow, and Hydrogeology Impact on Brook Trout Habitat
6.24	\$115,000 the second year is from the
6.25	trust fund to the Board of Regents of the
6.26	University of Minnesota for the Minnesota
6.27	Geological Survey to evaluate links between
6.28	southeastern Minnesota stream temperatures,
6.29	trout habitat, and bedrock hydrogeology to
6.30	improve trout stream management. This
6.31	appropriation is available until June 30,
6.32	2019, by which time the project must be
6.33	completed and final products delivered.
6.34 6.35	(m) Restoration of Elk to Northeastern Minnesota

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7.1	\$300,000 the	second year is	from the
7.2	trust fund to	the Board of Re	gents of the
7.3	University of	Minnesota in co	operation with
7.4	the Fond du	Lac Band and Ro	ocky Mountain
7.5	Elk Foundati	on to determine	the habitat
7.6	suitability an	d levels of publi	c support for
7.7	restoring elk	to northeastern	Minnesota.
7.8	This appropr	iation is availabl	e until June
7.9	30, 2019, by	which time the p	project must be
7.10	completed an	nd final products	delivered.
7.11	(n) Game ar	nd Nongame Bir	rd Pesticide
7.12	<b>Exposure</b>		
7.13	\$349,000 the	second year is f	from the trust
7.14	fund to the Bo	oard of Regents o	of the University
7.15	of Minnesota	to evaluate the	potential risk
7.16	to game and	nongame birds f	rom exposure
7.17	to neonicotin	oid-treated agric	ultural seeds.
7.18	This appropr	iation is availabl	e until June
7.19	30, 2019, by	which time the p	project must be
7.20	completed an	nd final products	delivered.
7.21		ng Insecticide E Vildlife on Publi	xposure Risk for
7.22	Grassianu v	viidille oli Fubli	ic Lanus
7.23	\$250,000 the	second year is f	from the trust
7.24	fund to the co	ommissioner of n	atural resources
7.25	to evaluate e	xposure risks of	grassland
7.26	wildlife to so	ybean aphid inso	ecticides, to
7.27	guide grassla	nd management	in farmland
7.28	regions of M	innesota for the	protection of
7.29	birds, benefic	cial insects, and o	other grassland
7.30	wildlife. This	s appropriation is	s available until
7.31	June 30, 2019	b, by which time	the project must
7.32	be completed	l and final produc	ets delivered.
7.33			ive Cost-Saving
7.34	Methodolog	y for Forest Inv	entory
7.35	\$1.000.000 tl	he second year is	s from the

as introduced

Sec. 2. 7

trust fund to the commissioner of natural

8.1	resources to develop and pilot a new and more
8.2	cost-effective methodology for an enhanced
8.3	stand-based forest inventory, with the goal
8.4	of extending the methodology statewide.
8.5	This appropriation is available until June
8.6	30, 2019, by which time the project must be
8.7	completed and final products delivered.
8.8 8.9	(q) Evaluation of Tree Retention Guidelines Pertaining to Wildlife
8.10	\$232,000 the second year is from the
8.11	trust fund to the Board of Regents of the
8.12	University of Minnesota for the Natural
8.13	Resources Research Institute in Duluth to
8.14	assess the effectiveness of the Minnesota
8.15	Forest Resources Council tree retention
8.16	guidelines in sustaining Minnesota's wildlife
8.17	populations, by quantifying and evaluating
8.18	the impacts on birds, small mammals, and
8.19	amphibian diversity. This appropriation
8.20	is available until June 30, 2019, by which
8.21	time the project must be completed and final
8.22	products delivered.
8.23 8.24 8.25	(r) Determine Impacts on Wildlife From Emerald Ash Borer Infection of Black Ash Forests
8.26	\$334,000 the second year is from the
8.27	trust fund to the Board of Regents of the
8.28	University of Minnesota for the Natural
8.29	Resources Research Institute in Duluth
8.30	to assess impacts of emerald ash borer
8.31	and adaptive management on wildlife
8.32	diversity in black ash forests and to develop
8.33	recommendations to mitigate wildlife
8.34	impacts. This appropriation is available until
8.35	June 30, 2019, by which time the project must
8.36	be completed and final products delivered.

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as introduced

8,349,000

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This work must be done in cooperation with

the St. Croix Watershed Research Station

of the Science Museum of Minnesota and

the Minnesota Pollution Control Agency.

This appropriation is available until June

completed and final products delivered.

30, 2019, by which time the project must be

9.29

9.30

9.31

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9.33

9.34

10.1	Lakes  (c) Restoring Native Mussels in Streams and Lakes
10.3	\$600,000 the second year is from the
10.4	trust fund to the commissioner of natural
10.5	resources in cooperation with the Minnesota
10.6	Zoological Garden for a statewide mussel
10.7	program to rear, restore, and re-establish
10.8	native mussel species in streams and rivers.
10.9	This appropriation is available until June
10.10	30, 2019, by which time the project must be
10.11	completed and final products delivered.
10.12 10.13 10.14	(d) Assessing Techniques for Eliminating Contaminants to Protect Native Fish and Mussels
10.15	\$287,000 the second year is from the
10.16	trust fund to the commissioner of natural
10.17	resources for an agreement with the
10.18	University of St. Thomas to evaluate the
10.19	use of ultraviolet treatment of wastewater
10.20	to remove certain commonly detected
10.21	wastewater contaminants, in order to reduce
10.22	the contaminants' toxicity to native fish and
10.23	mussels. This appropriation is available until
10.24	June 30, 2019, by which time the project must
10.25	be completed and final products delivered.
10.26 10.27	(e) Assessing Neonicotinoid Insecticide Effects on Aquatic and Soil Communities
10.28	\$400,000 the second year is from the trust
10.29	fund to the Board of Regents of the University
10.30	of Minnesota to identify neonicotinoid
10.31	insecticide breakdown components produced
10.32	in water and plant leaves and assess their
10.33	toxicity to soil and aquatic species and related
10.34	biotic communities. This appropriation is
10.35	available until June 30, 2019, by which time

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11.1	the project must be completed and final
11.2	products delivered.
11.3	(f) Bacterial Assessment of Groundwater
11.3	Supplies Used for Drinking Water
	\$200,000 d
11.5	\$299,000 the second year is from the
11.6	trust fund to the Board of Regents of the
11.7	University of Minnesota to characterize and
11.8	analyze bacterial communities in Minnesota
11.9	groundwater used as drinking water supplies
11.10	and link the microbiological data to other
11.11	water quality indicators for drinking water
11.12	supply safety. This appropriation is available
11.13	until June 30, 2019, by which time the
11.14	project must be completed and final products
11.15	delivered.
11.16	(g) Understanding Bedrock Fracture Flow to
11.17	Improve Groundwater Quality
11.18	\$183,000 the second year is from the
11.19	trust fund to the Board of Regents of the
11.20	University of Minnesota for the Minnesota
11.21	Geological Survey to use new techniques of
11.22	borehole testing and rock fracture mapping in
11.23	the Twin Cities metropolitan area to achieve
11.24	a better understanding of groundwater
11.25	flow through fractured bedrock, in order to
11.26	improve groundwater management. This
11.27	appropriation is available until June 30,
11.28	2019, by which time the project must be
11.29	completed and final products delivered.
11.30	(h) Protection of State's Confined Drinking
11.31	Water Aquifers - Phase II
11.32	\$433,000 the second year is from the
11.33	trust fund to the commissioner of natural
11.34	resources for an agreement with the United
11.35	States Geological Survey to continue to test
11.36	methods of defining properties of confined

as introduced

12.1	drinking water aquifers, in order to improve
12.2	water management. This appropriation is
12.3	not subject to Minnesota Statutes, section
12.4	116P.10. This appropriation is available until
12.5	June 30, 2019, by which time the project must
12.6	be completed and final products delivered.
12.7 12.8	(i) Techniques for Water Storage Estimates in Central Minnesota
12.9	\$250,000 the second year is from the
12.10	trust fund to the Board of Regents of the
12.11	University of Minnesota to improve water
12.12	storage estimates in groundwater, soil
12.13	moisture, streams, lakes, and wetlands
12.14	through integration of satellite monitoring
12.15	and ground-based measurements in central
12.16	Minnesota. This appropriation is available
12.17	until June 30, 2019, by which time the
12.18	project must be completed and final products
12.19	delivered.
12.20 12.21	(j) Assessment of Surface Water Quality with Satellite Sensors
12.22	\$345,000 the second year is from the trust
12.23	fund to the Board of Regents of the University
12.24	
	of Minnesota for a statewide assessment of
12.25	of Minnesota for a statewide assessment of water quality using new satellite sensors
12.25 12.26	
	water quality using new satellite sensors
12.26	water quality using new satellite sensors for high frequency measurement of major
12.26 12.27	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers.
12.26 12.27 12.28	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June
12.26 12.27 12.28 12.29	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June 30, 2019, by which time the project must be
12.26 12.27 12.28 12.29 12.30 12.31	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (k) Development of Innovative Sensor
12.26 12.27 12.28 12.29 12.30 12.31 12.32	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (k) Development of Innovative Sensor Technologies for Water Monitoring
12.26 12.27 12.28 12.29 12.30 12.31 12.32	water quality using new satellite sensors for high frequency measurement of major water quality indicators in lakes and rivers. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (k) Development of Innovative Sensor Technologies for Water Monitoring  \$509,000 the second year is from the

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13.1	and wireless sensor networks for continuous
13.2	monitoring of contaminants in lakes and
13.3	rivers in Minnesota. This appropriation
13.4	is subject to Minnesota Statutes, section
13.5	116P.10. This appropriation is available until
13.6	June 30, 2019, by which time the project must
13.7	be completed and final products delivered.
13.8 13.9	(l) Wastewater Treatment Process Improvements
13.10	\$398,000 the second year is from the trust
13.11	fund to the Board of Regents of the University
13.12	of Minnesota to characterize and quantify
13.13	the nutrient-removing microorganisms used
13.14	for municipal wastewater treatment, in order
13.15	to improve the process used to reduce total
13.16	nitrogen discharge. This appropriation is
13.17	available until June 30, 2019, by which time
13.18	the project must be completed and final
13.19	products delivered.
13.20 13.21	(m) Membrane-Based Process for Decentralized Drinking Water Production
13.22	\$191,000 the second year is from the trust
13.23	fund to the Board of Regents of the University
13.24	of Minnesota to develop a low-energy use,
13.25	membrane-based treatment technology
13.26	to produce drinking water locally from
13.27	surface waters by removing heavy metals
13.28	and contaminants of emerging concern,
13.29	including pesticides and pharmaceuticals.
13.30	This appropriation is subject to Minnesota
13.31	Statutes, section 116P.10. This appropriation
13.32	is available until June 30, 2019, by which
13.33	time the project must be completed and final
13.34	products delivered.
13.35 13.36	(n) Analyzing Alternatives for Municipal Wastewater Treatment

as introduced

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microbes from Soudan Iron Mine in

northern Minnesota for removing salts and

metals from groundwater and surface water

resources. This appropriation is subject to

Minnesota Statutes, section 116P.10. This

appropriation is available until June 30,

14.30

14.31

14.32

14.33

14.34

15.1	2019, by which time the project must be
15.2	completed and final products delivered.
15.3 15.4	(q) Engineered Biofilter for Sulfate and Metal Removal from Mine Waters
15.5	\$440,000 the second year is from the
15.6	trust fund to the Board of Regents of
15.7	the University of Minnesota to develop
15.8	an efficient, low-cost, biomass-derived
15.9	adsorbent material for use in bioactive filters
15.10	able to remove sulfate and metals from
15.11	mining-impacted waters. This appropriation
15.12	is subject to Minnesota Statutes, section
15.13	116P.10. This appropriation is available until
15.14	June 30, 2019, by which time the project must
15.15	be completed and final products delivered.
15.16 15.17	(r) Developing Biosponge Technology for Removal of Nitrates from Minnesota Waters
15.18	\$198,000 the second year is from the
15.19	trust fund to the Board of Regents of the
15.20	University of Minnesota to adapt and test
15.21	an inexpensive biosponge technology for
15.22	its effectiveness at removing nitrates from
15.23	drinking water. This appropriation is subject
15.24	to Minnesota Statutes, section 116P.10. This
15.25	appropriation is available until June 30,
15.26	2019, by which time the project must be
15.27	completed and final products delivered.
15.28 15.29	(s) Morrison County Performance Drainage and Hydrology Management
15.30	\$209,000 the second year is from the trust
15.31	fund to the commissioner of natural resources
15.32	for an agreement with the Morrison Soil
15.33	and Water Conservation District to conduct
15.34	an assessment of drainage infrastructure,
15.35	in order to develop hydrology restoration

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as introduced

as introduced

Sec. 2. 16

effectiveness of the pilot treatment system

and Geo-Engineering to evaluate the

16.35

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17.1	so that it maximi	zes benefits and	can be
17.2	replicated elsewh		
17.3	is available until	•	
17.4	time the project i		
17.5	products delivere		<u> </u>
17.6	(v) Assessing Ef		Vetland
17.7	Restorations for		
17.8	\$420,000 the sec	ond year is from	the trust
17.9	fund to the Board	of Regents of the	<u>University</u>
17.10	of Minnesota to	quantify the envi	ronmental
17.11	benefits of sedim	ent removal and	native
17.12	plant communitie	es in wetland rest	torations by
17.13	measuring result	ing reductions in	nitrogen
17.14	and phosphorus of	delivery to groun	dwater and
17.15	surface water. Th	nis appropriation	is available
17.16	until June 30, 20	19, by which tin	ne the
17.17	project must be c	ompleted and fin	nal products
17.18	delivered.		
17.19	(w) Assessing C		
17.20 17.21	Release of Merc Ecosystems	ury and Sulfur	into Aquatic
17.22	\$300,000 the sec	ond year is from	n the
17.23	trust fund to the	Board of Regent	s of the
17.24	University of Mi	nnesota to deterr	nine the
17.25	effects of increas	sed temperatures	on the
17.26	release of mercur	y and sulfur from	n Minnesota
17.27	peatlands in orde	er to help predict	impacts
17.28	on aquatic ecosy	stems and fish he	ealth. This
17.29	appropriation is	available until Ju	ine 30,
17.30	2019, by which t	time the project 1	must be
17.31	completed and fi	nal products deli	vered.
17.32 17.33	(x) Integrated T Tools with Citiz		hed Planning
17.34	\$169,000 the sec	ond year is from	n the
17.35	trust fund to the	<u>-</u>	
17.36	Minnesota State	Colleges and Un	iversities

as introduced

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18.1	system for the Water Resources Center		
18.2	at Minnesota State University, Mankato,		
18.3	to use geographic information system		
18.4	(GIS) prioritization and modeling tools		
18.5	to develop pollution reduction strategies		
18.6	in five priority subwatersheds in the Le		
18.7	Sueur River watershed and to promote		
18.8	implementation of the reduction strategies		
18.9	through citizen involvement and outreach.		
18.10	This appropriation is available until June		
18.11	30, 2019, by which time the project must be		
18.12	completed and final products delivered.		
18.13 18.14	(y) Roseau Lake Watershed Targeted Water Quality Improvement		
18.15	\$65,000 the second year is from the		
18.16	trust fund to the commissioner of natural		
18.17	resources to develop targeted water quality		
18.18	improvements for the Roseau Lake watershed		
18.19	by coordinating with partner agencies to		
18.20	identify the top priority field scale best		
18.21	management and conservation practices to		
18.22	implement in the region.		
18.23	Subd. 5. Environmental Education	<u>-0-</u>	2,562,000
18.24 18.25	(a) Minnesota Conservation Apprentice <u>Academy</u>		
18.26	\$433,000 the second year is from the		
18.27	trust fund to the Board of Water and Soil		
18.28	Resources in cooperation with Conservation		
18.29	Corps Minnesota and Iowa for the final		
18.30	phase of a program to train and mentor future		
18.31	conservation professionals by providing		
18.32	apprenticeship service opportunities with		
18.33	local soil and water conservation districts in		
18.34	Minnesota. This appropriation is available		
18.35	until June 30, 2019, by which time the		

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as introduced

as introduced

Sec. 2. 19

wildlife habitat, and invasive species,

as introduced

Sec. 2. 20

deliver hands-on learning in 12 southwestern

(g) Standards-Based Dakota Indian Land

Minnesota high schools.

**Stewardship Education** 

20.32

20.33

20.34

21.1	\$197,000 the second year is from the trust
21.2	fund to the commissioner of natural resources
21.3	for an agreement with Dakota Wicohan
21.4	to enhance the capacity of approximately
21.5	1,250 students to be stewards of the land in
21.6	Minnesota by learning about Dakota Indian
21.7	values and environmental principles through
21.8	a standards-based experiential multimedia
21.9	curriculum. This appropriation is available
21.10	until June 30, 2019, by which time the
21.11	project must be completed and final products
21.12	delivered.
21.13 21.14	(h) Wolf Management Education in the Classroom - Phase II
21.15	\$240,000 the second year is from the trust
21.16	<u>fund to the commissioner of natural resources</u>
21.17	for an agreement with the International
21.18	Wolf Center to expand the Wolves at Our
21.19	Door classroom education program to
21.20	assist students in understanding wolves and
21.21	associated management issues.
21.22	(i) Master Water Steward Program Expansion
21.23	\$116,000 the second year is from the trust
21.24	fund to the commissioner of natural resources
21.25	for an agreement with the Freshwater Society
21.26	to train community volunteers as master
21.27	water stewards who will work with
21.28	neighborhoods to install water management
21.29	projects that preserve and restore water
21.30	quality. This appropriation is available until
21.31	June 30, 2019, by which time the project must
21.32	be completed and final products delivered.
21.33 21.34 21.35	(j) Promoting Water Quality Stewardship through Student Mentoring and River Monitoring

22.1	\$39,000 the second year is from the trust		
22.2	fund to the commissioner of natural resources		
22.3	for an agreement with Southwest Minnesota		
22.4	State University to partner with area schools		
22.5	to deliver inquiry-based, hands-on learning		
22.6	and mentoring on water quality stewardship		
22.7	between university agriculture students and		
22.8	high school and middle school students.		
22.9 22.10	(k) Analysis of Thermally Modified Wood Nesting Boxes for Birds		
22.11	\$117,000 the second year is from the		
22.12	trust fund to the Board of Regents of the		
22.13	University of Minnesota for the Natural		
22.14	Resources Research Institute in Duluth to		
22.15	verify the performance and market readiness		
22.16	of bird nest boxes made from thermally		
22.17	modified Minnesota ash wood, by placing the		
22.18	nest boxes in nature centers, environmental		
22.19	learning centers, and school forests statewide		
22.20	for testing, collecting pertinent bird		
22.21	conservation data, and delivering related		
22.22	environmental education.		
22.23	Subd. 6. Aquatic and Terrestrial Invasive	0	5,060,000
22.24	Species	<u>-0-</u>	5,860,000
22.25 22.26	(a) Minnesota Invasive Terrestrial Plants and Pests Center - Phase III		
22.27	\$3,750,000 the second year is from the		
22.28	trust fund to the Board of Regents of the		
22.29	University of Minnesota for the Invasive		
22.30	Terrestrial Plants and Pests Center to conduct		
22.31	research to prevent, minimize, and mitigate		
22.32	the threats and impacts posed by terrestrial		
22.33	invasive plants, pathogens, and pests to		
22.34	the state's prairies, forests, wetlands, and		
22.35	agricultural resources. This appropriation		
22.36	is available until June 30, 2023, by which		

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23.1	time the project must be completed and final
23.2	products delivered.
23.3 23.4	(b) Developing Membrane Filtration System to Treat Lake Superior Ballast Water
23.5	\$151,000 the second year is from the trust
23.6	fund to the Board of Regents of the University
23.7	of Minnesota to develop a filtration system
23.8	utilizing bioactive membrane technologies
23.9	for use in treating Lake Superior ballast
23.10	water to remove at least 90 percent of
23.11	suspended pathogens, invasive species, and
23.12	contaminants. This appropriation is subject
23.13	to Minnesota Statutes, section 116P.10. This
23.14	appropriation is available until June 30,
23.15	2019, by which time the project must be
23.16	completed and final products delivered.
23.17 23.18	(c) Advancing Microbial Invasive Species  Monitoring from Ballast Discharge
23.19	\$368,000 the second year is from the
<ul><li>23.19</li><li>23.20</li></ul>	\$368,000 the second year is from the trust fund to the Board of Regents of
23.20	trust fund to the Board of Regents of
23.20 23.21	trust fund to the Board of Regents of the University of Minnesota to identify
23.20 23.21 23.22	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis
23.20 23.21 23.22 23.23	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks
23.20 23.21 23.22 23.23 23.24	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate
23.20 23.21 23.22 23.23 23.24 23.25	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at
23.20 23.21 23.22 23.23 23.24 23.25 23.26	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water.
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27 23.28	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27 23.28 23.29 23.30	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (d) Biological Control of White Nose Syndrome
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27 23.28 23.29 23.30 23.31	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (d) Biological Control of White Nose Syndrome in Bats - Phase II
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27 23.28 23.29 23.30 23.31	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (d) Biological Control of White Nose Syndrome in Bats - Phase II  \$452,000 the second year is from the
23.20 23.21 23.22 23.23 23.24 23.25 23.26 23.27 23.28 23.29 23.30 23.31 23.32 23.32	trust fund to the Board of Regents of the University of Minnesota to identify bacteria in ship ballast water and St. Louis River estuary sediments, assess the risks posed by invasive bacteria, and evaluate treatment techniques for effectiveness at removing the bacteria from ballast water. This appropriation is available until June 30, 2019, by which time the project must be completed and final products delivered.  (d) Biological Control of White Nose Syndrome in Bats - Phase II  \$452,000 the second year is from the trust fund to the Board of Regents of the

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24.1	evaluating the bio	control effective	veness of
24.2	microbes collecte	d at additional	hibernacula
24.3	throughout the sta	te and conduct	ing baseline
24.4	characterization o	f the total bat m	nicrobiomes.
24.5	This appropriation	n is available u	ntil June
24.6	30, 2019, by which	h time the proj	ect must be
24.7	completed and fin	al products del	ivered.
24.8 24.9	(e) Elimination o - Phase II	f Target Invasi	ive Plant Species
24.10	\$750,000 the seco	ond year is fron	n the trust
24.11	fund. Of this amo	ount, \$511,000	is to the
24.12	commissioner of	agriculture and	\$239,000
24.13	is to the Board of	Regents of the	University
24.14	of Minnesota to t	rain volunteers	and
24.15	professionals to fi	nd, control, and	d monitor
24.16	targeted newly en	nergent invasiv	e plant
24.17	species. This app	copriation is av	ailable until
24.18	June 30, 2019, by	which time the	project must
24.19	be completed and	final products	delivered.
24.20	(f) Dutch Elm Di	sease Resistan	ce - Phase II
24.21	\$200,000 the seco	ond year is fron	n the trust
24.22	fund to the Board	of Regents of th	e University
24.23	of Minnesota to c	ontinue to iden	tify and
24.24	evaluate native M	innesota elms	that are
24.25	resistant to Dutch	elm disease ar	nd begin
24.26	propagating disea	se-resistant spe	ecimens
24.27	for field trial testi	ng. This appro	priation
24.28	is available until.	June 30, 2019,	by which
24.29	time the project m	nust be complet	ed and final
24.30	products delivered	<u>d.</u>	
24.31 24.32	(g) Invasive Car Lake Nokomis S		t Research in
24.33	\$189,000 the seco	ond year is from	m the

as introduced

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trust fund to the commissioner of natural

resources for an agreement with the

24.34

25.1	Minneapolis Park and Recreation Board to		
25.2	apply current invasive carp management		
25.3	research to the entire Lake Nokomis		
25.4	subwatershed and provide demonstration		
25.5	guidance for large-scale carp management.		
25.6	This appropriation is available until June		
25.7	30, 2020, by which time the project must be		
25.8	completed and final products delivered.		
25.9 25.10	Subd. 7. Air Quality, Climate Change, and Renewable Energy	<u>-0-</u>	3,889,000
25.11	(a) Solar Cells Manufacturing Research		
25.12	\$388,000 the second year is from the		
25.13	trust fund to the Board of Regents of		
25.14	the University of Minnesota to develop		
25.15	inexpensive, high-efficiency solar energy by		
25.16	simple roll-to-roll advanced manufacturing		
25.17	technology, using Perovskite, a new		
25.18	photovoltaic material. This appropriation		
25.19	is subject to Minnesota Statutes, section		
25.20	116P.10. This appropriation is available until		
25.21	June 30, 2019, by which time the project must		
25.22	be completed and final products delivered.		
25.23	(b) Community Solar Garden Installation		
25.24	\$490,000 the second year is from the trust		
25.25	fund to the commissioner of natural resources		
25.26	for an agreement with Rural Renewable		
25.27	Energy Alliance to install a 200-kilowatt		
25.28	community solar garden to provide for		
25.29	electrical distribution in Cass and Crow		
25.30	Wing Counties, to assist households in the		
25.31	Minnesota low-income housing energy		
25.32	assistance program in meeting electrical		
25.33	energy needs and serve as a model for		
25.34	low-income energy assistance elsewhere in		

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26.1	the state. This	appropriation is no	ot subject to
26.2	Minnesota Stat	utes, section 116P.	10.
26.3 26.4		ution Climate Pr g and Implement	-
26.5	\$411,000 the se	econd year is from	the trust
26.6	fund to the Boa	rd of Regents of the	e University
26.7	of Minnesota to	produce statewid	e localized
26.8	climate model	projections to be u	used for
26.9	long-term plan	ning and implemen	ntation of
26.10	adaptation strat	egies for natural r	esources,
26.11	infrastructure, a	and human health	at the local
26.12	level. This app	ropriation is availa	able until
26.13	June 30, 2019,	by which time the p	project must
26.14	be completed a	nd final products of	lelivered.
26.15 26.16	(d) Geotargete Initiative	ed Distributed Clo	ean Energy
26.17	\$800,000 the se	econd year is from	the trust
26.18	fund to the com	missioner of natur	al resources
26.19	for an agreeme	nt with the Center	for Energy
26.20	and Environme	ent. Of this amoun	nt, up to
26.21	\$600,000 is for	analysis of comn	nunit <u>y</u>
26.22	distributed clea	n energy investme	ents as
26.23	alternatives to	utility transmissio	n and
26.24	distribution up	grade capital inves	stments
26.25	to meet forecas	sted electrical load	ls. Up
26.26	to \$200,000 is	to conduct pilot pr	rograms
26.27	using energy ef	ficiency and other	distributed
26.28	energy resource	es to achieve fored	casted
26.29	electric energy	loads in communi	ities and
26.30	is contingent of	n a \$200,000 mate	ch of an
26.31	equal or greate	r amount of nonsta	ate money.
26.32	This appropriat	tion is available ur	ntil June
26.33	30, 2019, by w	hich time the proje	ect must be
26.34	completed and	final products deli	vered.
26.35 26.36		t Recovery with c Energy Genera	

as introduced

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29.1 29.2	(b) Measuring Pollen and Seed Dispersal for Prairie Fragment Connectivity
29.3	\$556,000 the second year is from the
29.4	trust fund to the Board of Regents of the
29.5	University of Minnesota to determine
29.6	habitat connectivity between prairie
29.7	fragments by measuring plant movement
29.8	by dispersal of pollen and seeds to improve
29.9	prairie restoration implementation. This
29.10	appropriation is available until June 30,
29.11	2019, by which time the project must be
29.12	completed and final products delivered.
29.13 29.14	(c) Establishment of Permanent Habitat Strips Within Row Crops
29.15	\$179,000 the second year is from the trust
29.16	fund to the Science Museum of Minnesota
29.17	for the St. Croix Watershed Research Station
29.18	to research the viability of establishing
29.19	prairie forbs and alfalfa as permanent cover
29.20	strips in the bare soil between selected rows
29.21	of corn and soybeans as potential pollinator,
29.22	monarch, and gamebird habitat. Monitoring
29.23	of the native plant strips must evaluate the
29.24	effects of pesticides from adjacent crops on
29.25	pollinators, including determining whether
29.26	there is a reduction of pollinators that results
29.27	in reduced setting of seeds on the native
29.28	plants. This appropriation is available until
29.29	June 30, 2019, by which time the project must
29.30	be completed and final products delivered.
29.31	(d) Evaluate Prescribed Burning Techniques to
29.32 29.33	Improve Habitat Management for Brushland Species
29.34	\$267,000 the second year is from the trust
29.35	fund to the Board of Regents of the University
29.36	of Minnesota to compare the effects on

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31.1	guidelines. This appropriation is available
31.2	until June 30, 2019, by which time the
31.3	project must be completed and final products
31.4	<u>delivered.</u>
31.5 31.6	(g) Upland, Wetland, and Shoreline Restoration in Greater Metropolitan Area
31.7	\$509,000 the second year is from the
31.8	trust fund to the commissioner of natural
31.9	resources for an agreement with Great River
31.10	Greening to restore approximately 150 acres
31.11	of forest, prairie, woodland, and wetland
31.12	and 0.15 miles of shoreline throughout
31.13	the greater Twin Cities metropolitan area,
31.14	using volunteers, and to conduct restoration
31.15	evaluation on previously restored parcels. A
31.16	list of proposed restorations and evaluations
31.17	must be provided as part of the required work
31.18	plan. Plant and seed materials must follow
31.19	the Board of Water and Soil Resources' native
31.20	vegetation establishment and enhancement
31.21	guidelines. This appropriation is available
31.22	until June 30, 2019, by which time the
31.23	project must be completed and final products
31.24	<u>delivered.</u>
31.25 31.26	(h) Bluffland Restoration and Monitoring in Winona
31.27	\$99,000 the second year is from the trust fund
31.28	to the Board of Trustees of the Minnesota
31.29	State Colleges and Universities system
31.30	for Winona State University to inventory,
31.31	restore, and monitor the 40-acre Garvin
31.32	Heights Natural Area in Winona and provide
31.33	related public outreach and education. Plant
31.34	and seed materials must follow the Board of
31.35	Water and Soil Resources' native vegetation
31.36	establishment and enhancement guidelines.

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32.1	This appropriation is available until June		
32.2	30, 2019, by which time the project must be		
32.3	completed and final products delivered.		
32.4	(i) Champlin Mill Pond Shoreland Restoration		
32.5	\$2,000,000 the second year is from the		
32.6	trust fund to the commissioner of natural		
32.7	resources for an agreement with the city		
32.8	of Champlin to restore the Champlin Mill		
32.9	Pond shoreline and adjacent habitat. Plant		
32.10	and seed materials must follow the Board of		
32.11	Water and Soil Resources' native vegetation		
32.12	establishment and enhancement guidelines.		
32.13	This appropriation is available until June		
32.14	30, 2019, by which time the project must be		
32.15	completed and final products delivered.		
32.16 32.17	Subd. 9. Land Acquisition, Habitat, and Recreation	<u>-0-</u>	12,624,000
32.18	(a) State Parks and Trails Land Acquisition		
•••	©2 445 000 d 1 C d -		
32.19	\$2,445,000 the second year is from the		
32.20	trust fund to the commissioner of natural		
32.21	resources to acquire approximately 150 acres		
32.22	from willing sellers for authorized state		
32.23	trails and critical parcels within the statutory		
32.24	boundaries of state parks. Of this amount, at		
32.25	least \$445,000 must be used for state parks		
32.26	and trails along the Minnesota River. State		
32.27	park land acquired with this appropriation		
32.28	must be sufficiently improved to meet at		
32.29	least minimum management standards, as		
32.30	determined by the commissioner of natural		
32.31	resources. A list of proposed acquisitions		
32.32	must be provided as part of the required work		
32.33	plan. This appropriation is available until		
32.34	June 30, 2019, by which time the project must		
32.35	be completed and final products delivered.		

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33.1 33.2	(b) Scientific and Natural Area Acquisition and Restoration
33.3	\$4,000,000 the second year is from the
33.4	trust fund to the commissioner of natural
33.5	resources to acquire approximately 400
33.6	acres of land with high-quality native plant
33.7	communities and rare features from willing
33.8	sellers, to be established as scientific and
33.9	natural areas as provided in Minnesota
33.10	Statutes, section 86A.05, subdivision 5,
33.11	and restore and improve approximately
33.12	750 acres of scientific and natural areas.
33.13	Of this appropriation, at least \$1,300,000
33.14	is designated for restoration. A list of
33.15	proposed acquisitions and restorations must
33.16	be provided as part of the required work
33.17	plan. Land acquired with this appropriation
33.18	must be sufficiently improved to meet at
33.19	least minimum management standards, as
33.20	determined by the commissioner of natural
33.21	resources. This appropriation is available
33.22	until June 30, 2019, by which time the
33.23	project must be completed and final products
33.24	<u>delivered.</u>
33.25 33.26	(c) Minnesota Point Pine Forest Scientific and Natural Area Acquisition
33.27	\$500,000 the second year is from the
33.28	trust fund to the commissioner of natural
33.29	resources in cooperation with the Duluth
33.30	Airport Authority to acquire approximately
33.31	ten acres as an addition to the designated
33.32	Minnesota Point Pine Forest Scientific and
33.33	Natural Area located along the shores of
33.34	Lake Superior in Duluth.
33.35 33.36	(d) Conservation Easements in Avon Hills - Phase III

34.1	\$1,300,000 the second year is from the
34.2	trust fund to the commissioner of natural
34.3	resources for an agreement with Saint John's
34.4	University in cooperation with Minnesota
34.5	Land Trust to secure permanent conservation
34.6	easements on approximately 500 acres
34.7	of high-quality habitat in Stearns County,
34.8	prepare conservation management plans, and
34.9	provide public outreach. A list of proposed
34.10	easement acquisitions must be provided as
34.11	part of the required work plan. An entity
34.12	that acquires a conservation easement with
34.13	appropriations from the trust fund must have
34.14	a long-term stewardship plan for the easement
34.15	and a fund established for monitoring and
34.16	enforcing the agreement. Funding for the
34.17	long-term monitoring and enforcement
34.18	fund must come from nonstate sources for
34.19	easements acquired with this appropriation.
34.20	The state may enforce requirements in the
34.21	conservation easements on land acquired
34.22	with this appropriation and the conservation
34.23	easement document must state this authority
34.24	and explicitly include requirements for
34.25	water quality and quantity protection. This
34.26	appropriation is available until June 30,
34.27	2019, by which time the project must be
34.28	completed and final products delivered.
34.29	(e) Wilder Forest Acquisition
34.30	\$500,000 the second year is from the trust
34.31	fund to the commissioner of natural resources
34.32	for an agreement with Washington County
34.33	in cooperation with the Minnesota Food
34.34	Association to partially acquire property
34.35	in Washington County known as Wilder
34.36	Forest to be used in organic agricultural

35.1	production and habitat conservation. Any
35.2	land to be acquired must be identified in
35.3	an approved work plan, publicly owned,
35.4	and open to public use. The county must
35.5	evaluate and provide a long-term plan for
35.6	the conservation of the Wilder Forest area
35.7	to the Legislative-Citizen Commission on
35.8	Minnesota Resources before the acquisition
35.9	is completed. This appropriation must be
35.10	matched by at least an equal amount of
35.11	nonstate funds.
35.12	(f) Lincoln Pipestone Rural Water System
35.13	<b>Acquisition for Wellhead Protection</b>
35.14	\$1,500,000 the second year is from the
35.15	trust fund to the commissioner of natural
35.16	resources for an agreement with Lincoln
35.17	Pipestone Rural Water to acquire and
35.18	restore lands designated under an approved
35.19	wellhead protection plan. Lands acquired
35.20	with this appropriation must be from willing
35.21	sellers and be identified by the Department
35.22	of Health as targeted vulnerable lands for
35.23	wellhead protection. Lands must be restored
35.24	to permanent vegetative cover, but may be
35.25	used for recreation and renewable energy if
35.26	adequate protection of the drinking water
35.27	aquifer is provided. A list of proposed
35.28	acquisitions must be provided as part of the
35.29	required work plan. Plant and seed materials
35.30	must follow the Board of Water and Soil
35.31	Resources' native vegetation establishment
35.32	and enhancement guidelines. Income
35.33	derived from the lands acquired with funds
35.34	appropriated under this paragraph is exempt
35.35	from Minnesota Statutes, section 116P.10,
35.36	if used for additional wellhead protection as

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36.1	provided under this paragraph until adequate	
36.2	wellhead protection has been achieved,	
36.3	as determined by the commissioner of	
36.4	health. Any income earned after that must	
36.5	be returned to the environment and natural	
36.6	resources trust fund. This appropriation	
36.7	is available until June 30, 2019, by which	
36.8	time the project must be completed and final	
36.9	products delivered.	
36.10	(g) Mesabi Trail Segment from Highway 13	<u>35</u>
36.11	to Town of Embarrass	
36.12	\$1,200,000 the second year is from the trust	
36.13	fund to the commissioner of natural resources	
36.14	for an agreement with the St. Louis and Lake	
36.15	Counties Regional Railroad Authority for	
36.16	engineering and construction of segments of	
36.17	the Mesabi Trail, totaling approximately six	
36.18	miles between Highway 135 and the town of	
36.19	Embarrass. This appropriation is available	
36.20	until June 30, 2019, by which time the	
36.21	project must be completed and final products	
36.22	delivered.	
36.23	(h) Tower Historic Harbor Trail Connection	<u>ns</u>
36.24	\$679,000 the second year is from the trust	
36.25	fund to the commissioner of natural resources	
36.26	for an agreement with the city of Tower to	
36.27	construct recreational trails along the harbor	
36.28	in Tower and to connect to the Mesabi Trail.	
36.29	This appropriation is available until June	
36.30	30, 2019, by which time the project must be	
36.31	completed and final products delivered.	
36.32 36.33	(i) Otter Tail River Recreational Trail Acquisition	

as introduced

Sec. 2. 36

\$500,000 the second year is from the trust

fund to the commissioner of natural resources

36.34

37.1	for an agreement with the city of Fergus Falls		
37.2	to acquire approximately 16 acres along the		
37.3	Otter Tail River for a recreational trail and		
37.4	park. This appropriation is contingent on at		
37.5	least an equal match of nonstate money. Prior		
37.6	to the acquisition, a phase 1 environmental		
37.7	assessment must be completed and the city		
37.8	must not accept any liability for previous		
37.9	contamination of lands acquired with this		
37.10	appropriation.		
37.11	Subd. 10. Administration	<u>-0-</u>	210,000
37.12	(a) Contract Agreement Reimbursement		
37.13	\$135,000 the second year is from		
37.14	the trust fund to the commissioner of		
37.15	natural resources, at the direction of		
37.16	the Legislative-Citizen Commission on		
37.17	Minnesota Resources, for expenses incurred		
37.18	for contract agreement reimbursement for		
37.19	the agreements specified in this section. The		
37.20	commissioner shall provide documentation		
37.21	to the Legislative-Citizen Commission on		
37.22	Minnesota Resources on the expenditure of		
37.23	these funds.		
37.24	(b) Grants Management System		
37.25	\$75,000 the second year is from the trust		
37.26	fund to the Legislative-Citizen Commission		
37.27	on Minnesota Resources for upgrading and		
37.28	modernizing a project records management		
37.29	system.		
37.30	Subd. 11. Availability of Appropriations		
37.31	Money appropriated in this section may		
37.32	not be spent on activities unless they are		
37.33	directly related to and necessary for a specific		
37.34	appropriation and are specified in the work		

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as introduced

38.1	plan approved by the Legislative-Citizen
38.2	Commission on Minnesota Resources.
38.3	Money appropriated in this section must
38.4	not be spent on indirect costs or other
38.5	institutional overhead charges that are
38.6	not directly related to and necessary for
38.7	a specific appropriation. Costs that are
38.8	directly related to and necessary for an
38.9	appropriation, including financial services,
38.10	human resources, information services, rent,
38.11	and utilities, are eligible only if the costs
38.12	can be clearly justified and individually
38.13	documented specific to the appropriation's
38.14	purpose and would not be generated by
38.15	the recipient but for the receipt of the
38.16	appropriation. No broad allocations for costs
38.17	in either dollars or percentages are allowed.
38.18	<u>Unless otherwise provided, the amounts in</u>
38.19	this section are available until June 30, 2018,
38.20	when projects must be completed and final
38.21	products delivered. For acquisition of real
38.22	property, the appropriations in this section
38.23	are available for an additional fiscal year if a
38.24	binding contract for acquisition of the real
38.25	property is entered into before the original
38.26	expiration date of the appropriation. If a
38.27	project receives a federal grant, the time
38.28	period of the appropriation is extended to
38.29	equal the federal grant period.
38.30	Subd. 12. <b>Data Availability Requirements</b>
38.31	Data collected by the projects funded under
38.32	this section must conform to guidelines
38.33	and standards adopted by MN.IT Services.
38.34	Spatial data also must conform to additional
38.35	guidelines and standards designed to support
38.36	data coordination and distribution that have

39.1	been published by the Minnesota Geospatial
39.2	Information Office. Descriptions of spatial
39.3	data must be prepared as specified in
39.4	the state's geographic metadata guideline
39.5	and must be submitted to the Minnesota
39.6	Geospatial Information Office. All data must
39.7	be accessible and free to the public unless
39.8	made private under the Data Practices Act,
39.9	Minnesota Statutes, chapter 13. To the extent
39.10	practicable, summary data and results of
39.11	projects funded under this section should
39.12	be readily accessible on the Internet and
39.13	identified as having received funding from
39.14	the environment and natural resources trust
39.15	<u>fund.</u>
39.16	Subd. 13. Project Requirements
39.17	(a) As a condition of accepting an
39.18	appropriation under this section, an agency
39.19	or entity receiving an appropriation or a
39.20	party to an agreement from an appropriation
39.21	must comply with paragraphs (b) to (l)
39.22	and Minnesota Statutes, chapter 116P, and
39.23	must submit a work plan and semiannual
39.24	progress reports in the form determined
39.25	by the Legislative-Citizen Commission on
39.26	Minnesota Resources for any project funded
39.27	in whole or in part with funds from the
39.28	appropriation. Modifications to the approved
39.29	work plan and budget expenditures must
39.30	be made through the amendment process
39.31	established by the Legislative-Citizen
39.32	Commission on Minnesota Resources.
39.33	(b) A recipient of money appropriated in
39.34	this section that conducts a restoration using
39.35	funds appropriated in this section must use

40.1	native plant species according to the Board of
40.2	Water and Soil Resources' native vegetation
40.3	establishment and enhancement guidelines
40.4	and include an appropriate diversity of
40.5	native species selected to provide habitat for
40.6	pollinators throughout the growing season as
40.7	required under Minnesota Statutes, section
40.8	84.973.
40.9	(c) For all restorations conducted with money
40.10	appropriated under this section, a recipient
40.11	must prepare an ecological restoration
40.12	and management plan that, to the degree
40.13	practicable, is consistent with the highest
40.14	quality conservation and ecological goals for
40.15	the restoration site. Consideration should
40.16	be given to soil, geology, topography, and
40.17	other relevant factors that would provide
40.18	the best chance for long-term success and
40.19	durability of the restoration project. The
40.20	plan must include the proposed timetable
40.21	for implementing the restoration, including
40.22	site preparation, establishment of diverse
40.23	plant species, maintenance, and additional
40.24	enhancement to establish the restoration;
40.25	identify long-term maintenance and
40.26	management needs of the restoration and
40.27	how the maintenance, management, and
40.28	enhancement will be financed; and take
40.29	advantage of the best available science and
40.30	include innovative techniques to achieve the
40.31	best restoration.
40.32	(d) An entity receiving an appropriation in
40.33	this section for restoration activities must
40.34	provide an initial restoration evaluation
40.35	at the completion of the appropriation
40.36	and an evaluation three years beyond the

41.1	completion of the expenditure. Restorations
41.2	must be evaluated relative to the stated
41.3	goals and standards in the restoration plan,
41.4	current science, and, when applicable, the
41.5	Board of Water and Soil Resources' native
41.6	vegetation establishment and enhancement
41.7	guidelines. The evaluation must determine
41.8	whether the restorations are meeting planned
41.9	goals, identify any problems with the
41.10	implementation of the restorations, and,
41.11	if necessary, give recommendations on
41.12	improving restorations. The evaluation must
41.13	be focused on improving future restorations.
41.14	(e) All restoration and enhancement projects
41.15	funded with money appropriated in this
41.16	section must be on land permanently
41.17	protected by a conservation easement or
41.18	public ownership.
41.19	(f) A recipient of money from an
41.20	appropriation under this section must
41.21	give consideration to contracting with
41.22	Conservation Corps Minnesota for contract
41.23	restoration and enhancement services.
41.24	(g) All conservation easements acquired with
41.25	money appropriated under this section must:
41.26	(1) be permanent;
41.27	(2) specify the parties to an easement in the
41.28	easement;
41.29	(3) specify all of the provisions of an
41.30	agreement that are permanent;
41.31	(4) be sent to the Legislative-Citizen
41.32	Commission on Minnesota Resources in an
41.33	electronic format at least ten business days
41.34	prior to closing;

42.1	(5) include a long-term monitoring and
42.2	enforcement plan and funding for monitoring
42.3	and enforcing the easement agreement; and
42.4	(6) include requirements in the easement
42.5	document to address specific groundwater
42.6	and surface water quality protection activities
42.7	such as keeping water on the landscape,
42.8	reducing nutrient and contaminant loading,
42.9	protecting groundwater, and not permitting
42.10	artificial hydrological modifications.
42.11	(h) For any acquisition of lands or interest
42.12	in lands, a recipient of money appropriated
42.13	under this section must not agree to pay
42.14	more than 100 percent of the appraised value
42.15	for a parcel of land using this money to
42.16	complete the purchase, in part or in whole,
42.17	except that up to ten percent above the
42.18	appraised value may be allowed to complete
42.19	the purchase, in part or in whole, using this
42.20	money if permission is received in advance
42.21	of the purchase from the Legislative-Citizen
42.22	Commission on Minnesota Resources.
42.23	(i) For any acquisition of land or interest in
42.24	land, a recipient of money appropriated under
42.25	this section must give priority to high-quality
42.26	natural resources or conservation lands that
42.27	provide natural buffers to water resources.
42.28	(j) For new lands acquired with money
42.29	appropriated under this section, a recipient
42.30	must prepare an ecological restoration
42.31	and management plan in compliance with
42.32	paragraph (c), including sufficient funding
42.33	for implementation unless the work plan
42.34	addresses why a portion of the money is

restoration.
(k) To ensure public accountability for
the use of public funds, within 60 days
of the transaction, a recipient of money
appropriated under this section must provide
to the Legislative-Citizen Commission on
Minnesota Resources documentation of the
selection process used to identify parcels
acquired and provide documentation of all
related transaction costs, including but not
limited to appraisals, legal fees, recording
fees, commissions, other similar costs,
and donations. This information must be
provided for all parties involved in the
transaction. The recipient must also report
to the Legislative-Citizen Commission on
Minnesota Resources any difference between
the acquisition amount paid to the seller and
the state-certified or state-reviewed appraisal,
if a state-certified or state-reviewed appraisal
was conducted.
(l) A recipient of an appropriation from
the trust fund under this section must
acknowledge financial support from
the Minnesota environment and natural
resources trust fund in project publications,
signage, and other public communications
and outreach related to work completed
using the appropriation. Acknowledgment
may occur, as appropriate, through use of
the trust fund logo or inclusion of language
attributing support from the trust fund. Each
direct recipient of money appropriated in
this section, as well as each recipient of a
grant awarded pursuant to this section, must

not necessary to achieve a high-quality

43.1

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44.1	satisfy all repor	ting and other req	uirements
44.2		constitutionally of	
44.3	funding recipies	nts as provided in	Minnesota
44.4	Statutes, section	n 3.303, subdivisio	on 10, and
44.5	chapter 116P.		
44.6 44.7	Subd. 14. Payr Equipment Ex	ment Conditions penditures	and Capital
44.8	(a) All agreeme	ents, grants, or cor	ntracts
44.9	referred to in the	nis section must b	<u>oe</u>
44.10	administered or	a reimbursement	basis
44.11	unless otherwise	e provided in this	section.
44.12	Notwithstanding	g Minnesota Statu	tes, section
44.13	16A.41, expend	litures made on or	after
44.14	July 1, 2016, or	the date the work	x plan is
44.15	approved, which	hever is later, are o	eligible for
44.16	reimbursement	unless otherwise p	provided
44.17	in this section.	Periodic payment	must be
44.18	made upon rece	eiving documentat	ion that
44.19	the deliverable	items articulated i	in the
44.20	approved work	plan have been ac	chieved,
44.21	including partia	l achievements as	evidenced
44.22	by approved pro	ogress reports. Re	<u>asonable</u>
44.23	amounts may be	e advanced to pro	jects to
44.24	accommodate c	ash flow needs or	match
44.25	federal money.	The advances mu	ist be
44.26	approved as par	t of the work plan	n. No
44.27	expenditures for	r capital equipmen	nt are
44.28	allowed unless	expressly authoriz	ed in the
44.29	project work pla	an.	
44.30	(b) Single-source	ce contracts as spec	cified in the
44.31	approved work	plan are allowed.	
44.32 44.33	Subd. 15. Purc Materials	hase of Recycled	and Recyclable
44.34	A political subc	livision, public or	private
44.35	corporation, or	other entity that re	eceives an
44.36	appropriation un	nder this section m	nust use the

as introduced

Sec. 2. 44

as introduced

Sec. 2. 45

following projects are extended to June 30,

45.32

45.33

2017:

- 46.1 (a) Laws 2013, chapter 52, section 2,
- subdivision 3, paragraph (c), County
- 46.3 Geologic Atlases Part B;
- 46.4 (b) Laws 2013, chapter 52, section 2,
- subdivision 4, paragraph (d), Metropolitan
- 46.6 Conservation Corridors (MeCC) Phase
- VII, \$400,000 for the agreement with the
- 46.8 Minnesota Valley National Wildlife Refuge
- 46.9 Trust, Inc. only;
- 46.10 (c) Laws 2013, chapter 52, section 2,
- 46.11 <u>subdivision 4, paragraph (i), Conservation</u>
- 46.12 Grazing to Improve Wildlife Habitat on
- 46.13 Wildlife Management Areas;
- 46.14 (d) Laws 2013, chapter 52, section 2,
- subdivision 5, paragraph (b), Assessment of
- 46.16 Natural Copper-Nickel Bedrocks on Water
- 46.17 Quality;
- 46.18 (e) Laws 2013, chapter 52, section 2,
- subdivision 5, paragraph (f), Evaluation of
- 46.20 Lake Superior Water Quality Health;
- 46.21 (f) Laws 2013, chapter 52, section 2,
- 46.22 subdivision 6, paragraph (c), Improving
- 46.23 Emerald Ash Borer Detection Efficacy for
- 46.24 Control;
- 46.25 (g) Laws 2014, chapter 226, section 2,
- 46.26 subdivision 3, paragraph (1), Rainwater
- 46.27 Reuse and Valuation Investigation;
- 46.28 (h) Laws 2014, chapter 226, section
- 46.29 2, subdivision 10, paragraph (c),
- 46.30 Legislative-Citizen Commission on
- 46.31 Minnesota Resources (LCCMR) for upgrade
- and modernization of a project records
- 46.33 management system; and

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

47.4 Pump Study.

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## Sec. 3. [116P.19] DONATIONS.

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

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

## Sec. 4. [116P.20] EASEMENT MONITORING AND ENFORCEMENT REQUIREMENTS.

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

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

Sec. 4. 47