

**Environment and Natural Resources Trust Fund  
HF 4498 (Hansen) with Author's A3 Amendment**

Project	Agency/Grantee	As Introduced	With Author's A3 Amendment			change
		Year	Year	Year	Year	
<b>1</b>	<b>Subdivision 3 Foundational Natural Resource Data and Information</b>	<b>FY 2021</b>	<b>FY2020</b>	<b>FY 2021</b>	<b>FY20-21</b>	
2 a	Geologic Atlases for Water Resource Management	U of MN 2,000	-	2,000	2,000	-
3 b	Expanding Minnesota Ecological Monitoring Network	DNR 800	-	800	800	-
4 c	County Groundwater Atlas	DNR 1,125	-	1,125	1,125	-
5 d	Foundational Hydrology Data For Wetland Protection and Restoration	DNR 400	-	400	400	-
6 e	Voyageurs Wolf Project - Phase II	U of MN 575	-	575	575	-
7 f	Expanding Restoration and Promoting Awareness of Native Mussels	MN Zoo 489	-	489	489	-
8 g	Improving Pollinator Conservation By Revealing Habitat Needs	U of MN 500	-	500	500	-
9 h	Bee Minnesota - Protect Our Native Bumblebees	U of MN 650	-	650	650	-
10 i	Bobcat and Fisher Habitat Use and Interactions	U of MN 400	-	400	400	-
11 j	Healthy Prairies III: Restoring Minnesota Prairie Plant Diversity	U of MN 500	-	500	500	-
12 k	Freshwater Sponges and AIS: Engaging Citizen Scientists	U of MN 400	-	400	400	-
13 l	Do Beavers Buffer Against Droughts and Floods?	DNR-Voyageurs National Park 168	-	168	168	-
14 m	Enhancing Bat Recovery By Optimizing Artificial Roost Structures	DNR 190	-	190	190	-
15 n	Tools For Supporting Healthy Ecosystems and Pollinators	DNR 198	-	198	198	-
16 o	Conserving Black Terns and Forster's Terns In Minnesota	U of MN- NRRRI 198	-	198	198	-
17	<b>Subtotal</b>	<b>8,593</b>	-	<b>8,593</b>	<b>8,593</b>	-
<b>18</b>	<b>Subdivision 4 Water Resources</b>					
19 a	Unprecedented Change Threatens Minnesota's Pristine Lakes	Science Museum 600	849	-	849	249
20 b	Managing Highly Saline Waste From Municipal Water Treatment	U of MN 250	-	250	250	-
21 c	Technology for Energy-Generating On-Site Industrial Wastewater Treatment	U of MN 450	-	450	450	-
22 d	Microplastics: Transporters of Contaminants in Minnesota Waters	U of MN 425	-	425	425	-
23 e	Developing Strategies to Manage PFAS in Land Applied Biosolids	PCA 1,000	-	1,404	1,404	404
24 f	Quantifying New Urban Precipitation and Water Reality	U of MN 500	-	500	500	-
25 g	Innovative Solution for Protecting Minnesota from PFAS Contamination	DNR-Dem-Con 250	-	250	250	-
26 h	Expanding Protection of Minnesota Water Through Industrial Conservation	U of MN 178	-	178	178	-
27 i	COVID-19 Effects on Wastewater Treatment	U of MN	699	-	699	699
28	<b>Subtotal</b>	<b>3,653</b>	<b>1,548</b>	<b>3,457</b>	<b>5,005</b>	<b>1,352</b>
<b>29</b>	<b>Subdivision 5 Technical Assistance, Outreach, and Environmental Education</b>					
30 a	Statewide Environmental Education Via Public Television Outdoor Series	DNR-Pioneer Public Television 300	-	300	300	-
31 b	Minnesota Freshwater Quest: Environmental Education on State Waterways	DNR-Wilderness Inquiry 500	-	500	500	-
32 c	Teach Science: Schools as STEM Living Laboratories	DNR-Climate Generation 250	-	368	368	118
33 d	Mentoring Next Generation of Conservation Professionals	DNR-MVNWRT 500	-	500	500	-
34 e	Jay C. Hormel Nature Center Supplemental Teaching Staff	DNR-Austin 225	-	225	225	-
35 f	375 Underserved Youth Learn Minnesota Ecosystems by Canoe	DNR-YMCA 375	-	375	375	-
36 g	YES! Students Take on Water Quality Challenge - Phase II	DNR-Prairie Woods ELC 199	-	199	199	-
37 h	Engaging Minnesotans With Phenology: Radio, Podcasts, Citizen Science	DNR-Northern Community Radio 198	-	198	198	-
38 i	Driving Conservation Behavior For Native Mussels and Water Quality	MN Zoo 191	-	191	191	-
39 j	Workshops and Outreach to Protect Raptors from Lead Poisoning	U of MN Raptor Center	-	133	133	133
40	<b>Subtotal</b>	<b>2,738</b>	-	<b>2,989</b>	<b>2,989</b>	<b>251</b>
<b>41</b>	<b>Subdivision 6 Aquatic and Terrestrial Invasive Species</b>					
42 a	Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC)-Phase V	U of MN 5,000	-	5,658	5,658	658
43 b	Protect Community Forests by Managing Ash for Emerald Ash Borer	DNR 3,500	320	3,937	4,257	757
44 c	Biological Control of White-Nose Syndrome in Bats-Phase III	DNR (amendment changes to U of MN) 440	-	440	440	-
45 d	Applying New Tools and Techniques Against Invasive Carp	DNR 478	-	478	478	-
46 e	Emerald Ash Borer and Black Ash: Maintaining Forests and Benefits	U of MN 700	-	700	700	-
47 f	Testing Effectiveness of Aquatic Invasive Species Removal Methods	U of MN-NRRRI 110	-	110	110	-
48 g	Invasive <i>Didymosphenia</i> Threatens North Shore Streams	Science Museum 197	-	197	197	-
49	<b>Subtotal</b>	<b>10,425</b>	<b>320</b>	<b>11,520</b>	<b>11,840</b>	<b>1,415</b>

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50	<b>Subdivision 7 Air Quality and Renewable Energy</b>						
51	a Storing Renewable Energy in Flow Batter For Grid Use	U of MN-Morris	250	-	250	250	-
52	b Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	U of MN	193	-	193	193	-
53	c Diverting Unsold Food From Landfills and Reducing Greenhouse Gases	DNR-Second Harvest Heartland	130	-	130	130	-
54		<b>Subtotal</b>	<b>573</b>	<b>-</b>	<b>573</b>	<b>573</b>	<b>-</b>
55	<b>Subdivision 8 Methods to Protect or Restore Land, Water, and Habitat</b>						
56	a Pollinator Central: Habitat Improvement With Citizen Monitoring	DNR-Great River Greening	750	-	750	750	-
57	b Pollinator and Beneficial Insect Strategic Habitat Program	BWSR	750	-	750	750	-
58	c Lignin-Coated Fertilizers For Phosphate Control	U of MN-NRRI	250	-	250	250	-
59	d Implementing Hemp Crop Rotation to Improve Water Quality	MNSCU-Central Lakes College	700	-	700	700	-
60	e Developing Cover-Crop Systems for Sugar Beet Production	U of MN	300	-	300	300	-
61	f Native Eastern Larch Beetle Decimating Minnesota's Tamarack Forests	U of MN	398	-	398	398	-
62	g Habitat Associations of Mississippi Bottomland Forest March Birds	DNR-Audubon	275	-	275	275	-
63	h Peatland Restoration in the Lost River State Forest	DNR-Roseau River WD	135	-	135	135	-
64	i Prescribed Burning for Brushland-Dependent Species-Phase II	U of MN	147	-	147	147	-
65	j Pollinator Habitat Creation Along Urban Mississippi River	DNR-Friends of the Mississippi River	129	-	129	129	-
66	k Increase Golden Shiner Production to Protect Aquatic Communities	U of MN-Sea Grant	188	-	188	188	-
67	l Restoring Turf to Native Pollinator Gardens Across Metro	DNR-Wilderness in the City	197	-	197	197	-
68	m Lawns to Legumes	BWSR		900	-	900	900
69		<b>Subtotal</b>	<b>4,219</b>	<b>900</b>	<b>4,219</b>	<b>5,119</b>	<b>900</b>
70	<b>Subdivision 9 Land Acquisition, Habitat, and Recreation</b>						
71	a DNR Scientific and Natural Areas	DNR	3,000	-	3,000	3,000	-
72	b Private Native Prairie Conservation Through Native Prairie Bank	DNR	2,000	-	2,000	2,000	-
73	c Minnesota State Parks and Trails Inholdings	DNR	3,500	-	3,500	3,500	-
74	d Grants for Local Parks, Trails, and Natural Areas	DNR	2,400	-	2,400	2,400	-
75	e Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction	DNR-Minneapolis Parks	1,800	-	1,800	1,800	-
76	f Minnesota Hunter Walking Trails: Public Land Recreation	DNR-Ruffed Grouse Society	300	-	300	300	-
77	g Turning Back to Rivers: Environmental and Recreational Protection	DNR-TPL	1,000	-	1,000	1,000	-
78	h Metropolitan Regional Parks System Land Acquisition-Phase VI	Metropolitan Council	1,000	-	1,000	1,000	-
79	i Minnesota State Trails Development	DNR	994	-	994	994	-
80	j Elm Creek Restoration-Phase IV	DNR-Champlin	500	-	500	500	-
81	k Superior Hiking Trail as Environmental Showcase	DNR-Superior Hiking Trail Association	450	-	450	450	-
82	l Upper St. Anthony Falls Enhancements	DNR-Friends of the Locke and Dam	2,800	-	2,800	2,800	-
83	m Whiskey Creek and Mississippi River Water Quality, Habitat, and Recreation	DNR-Mississippi Headwaters Board	500	-	500	500	-
84	n Perham to Pelican Rapids Regional Trail (West Segment)	DNR-Otter Tail County	2,600	-	2,600	2,600	-
85	o Crow Wing County Community Natural Area Acquisition	DNR-Crow Wing County	400	-	400	400	-
86	p Rocori Trail-Phase III	DNR-Rocori Trails Construction Board	1,200	-	1,200	1,200	-
87	q Mesabi Trail: New Trail and Additional Funding	DNR-St. Louis and Lake Counties Regional Railroad Authority	1,000	-	1,000	1,000	-
88	r Ranier Safe Harbor and Transient Dock on Rainy Lake	DNR-Ranier	762	-	762	762	-
89	s Crane Lake Voyageurs National Park Campground and Visitor Center	DNR-Crane Lake	3,100	-	3,100	3,100	-
90	t Chippewa County Acquisition, Recreation and Education	DNR-Chippewa County	160	-	160	160	-
91	u Sportsmen's Training and Developmental Learning Center	DNR-MN Forest Zone Trappers Association	85	-	85	85	-
92	v Birch Lake Recreation Area	DNR-Babbitt		-	350	350	350
93		<b>Subtotal</b>	<b>29,551</b>	<b>-</b>	<b>29,901</b>	<b>29,901</b>	<b>350</b>
94	<b>Subdivision 10 Contract Agreement Reimbursement</b>						
95	a Contract Agreement Reimbursement	DNR	135	-	135	135	-
96		<b>Subtotal</b>	<b>135</b>	<b>-</b>	<b>135</b>	<b>135</b>	<b>-</b>
97		<b>TOTAL</b>	<b>59,887</b>	<b>2,768</b>	<b>61,387</b>	<b>64,155</b>	<b>4,268</b>

98 \*all values in thousands of \$

99 AMOUNT AVAILABLE 61,387 2,768 61,387

100 Difference 1,500 - -

101 \*\*The \$2.768 million available in FY 2020 is from the cancellation of the Sauk River Dam Removal and Rock Rapids Replacement. ML 2019, 1st SS, Ch. 4, Art. 2, Sec. 2, Subd. 8 (c)