

# Environment and Natural Resources Trust Fund FY 2023

## HF 3765 DE 1

	Project	Agency	Year		
			FY2022	FY 2023	FY22-23
1	<b>Subdivision 3 Foundational Natural Resource Data and Information</b>				
2 a	Efficacy of Urban Archery Hunting to Manage Deer	MN STATE COLLEGES	-	293	293
3 b	Improving Golden-Winged Warbler Conservation and Habitat Restoration	U of MN	-	197	197
4 c	Enhancing Natural Resource Conservation Through Species Distribution Modeling	DNR	-	200	200
5 d	Modernizing Minnesota's Digital Lake Inventory	DNR	-	700	700
6 e	How Do Prescribed Fires Affect Native Prairie Bees?	DNR	-	375	375
7 f	Status of Minnesota Blueberries and Related Berry Species	U of MN	-	191	191
8 g	Distribution and Movements of Fishers in Southern Minnesota	U of MN	-	309	309
9 h	Offal Wildlife Watching: How Do Hunters' Provisions Impact Scavengers?	U of MN	-	473	473
10 i	Land-Use and Climate Impacts on Minnesota's Whitewater River	U of MN	-	199	199
11 j	Protecting Minnesota's Spruce-Fir Forests from Tree-Killing Budworm	U of MN	-	189	189
12 k	Restoration of Eastern Hemlock, Minnesota's Endangered Tree Species	U of MN	-	199	199
13 l	Maximizing Lowland Conifer Ecosystem Services- Phase 2	U of MN	-	445	445
14 m	Establishing a Center for Prion Research and Outreach	U of MN	-	3,877	3,877
15 n	Neonicotinoid Impacts on Minnesota Deer and Prairie Chickens	DNR	-	943	943
16 o	Minnesota Biodiversity Atlas- Phase 3	U of MN	-	528	528
17 n	Sweetening the Crop: Perennial Flax for Ecosystem Benefits	U of MN	-	704	704
18 q	Beavers, Trees, and Climate- Increasing Floodplain Forest Resilience	DNR	-	383	383
19 r	Chronic Wasting Disease Prion Soil Research	U of MN	-	492	492
20		<b>Subtotal</b>	-	<b>10,697</b>	<b>10,697</b>
21	<b>Subdivision 4 Water Resources</b>				
22 a	Methods to Destroy PFAS in Landfill Leachates	U of MN	-	200	200
23 b	High Temperature Anaerobic Digestion of Sewage Sludge	U of MN	-	269	269
24 c	Mitigating Cyanobacterial Blooms and Toxins Using Clay-Algae Flocculation	U of MN	-	326	326
25 d	Changing Winters and Game Fish in Minnesota Lakes	U of MN	-	238	238
26 e	Rainy River Drivers of Lake of the Woods Algal Blooms	DNR	-	608	608
27 f	Water and Climate Information to Enhance Community Resilience	U of MN	-	502	502
28 g	Catch and Reveal: Discovering Unknown Fish Contamination Threats	U of MN	-	246	246
29 h	Leveraging Data Analytics Innovations for Watershed District Planning	DNR	-	704	704
30 i	Increased Intense Rain and Flooding in Minnesota's Watersheds	SCIENCE MUSEUM	-	192	192
31 j	Removing CECs from Stormwater with Biofiltration	U of MN	-	575	575
32 k	Is the Tire Chemical 6PPDq Killing Minnesota's Fish?	U of MN	-	437	437
33 l	Mitigation Strategies for Agroplastic PFAS and Microplastic Contamination	U of MN	-	169	169
34 m	Innovative Technology for PFAS Destruction in Drinking Water	U of MN	-	445	445

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35	n Salt Threatens Minnesota Water Quality and Fisheries	SCIENCE MUSEUM	-	1,093	1,093
36	o PFAS Contaminant Mitigation Using Hybrid Engineered Wetlands	DNR	-	446	446
37		<b>Subtotal</b>	-	<b>6,450</b>	<b>6,450</b>
38	<b>Subdivision 5 Environmental Education</b>				
39	a Teacher Field School: Stewardship through Nature-Based Education	DNR	-	445	445
40	b Increasing K-12 Student Learning to Develop Environmental Awareness, Appreciation, and Interest	DNR	-	1,602	1,602
41	c Expanding Access to Wildlife Learning Bird by Bird	DNR	-	246	246
42	d Engaging a Diverse Public in Environmental Stewardship	DNR	-	200	200
43	e LCCMR Stories: Sharing Minnesota's Biggest Environmental Investment	SCIENCE MUSEUM	-	538	538
44	f Bugs Below Zero: Engaging Citizens in Winter Research	U of MN	-	198	198
45	g ESTEP: Earth Science Teacher Education Project	DNR	-	441	441
46	h YES! Students Take Action to Complete Eco Projects	DNR	-	199	199
47	i Strengthening Watershed Stewardship through Outdoor Youth Education	DNR	-	265	265
48	j Increasing Diversity in Environmental Careers	DNR	-	182	182
49	k Partnering for Pollinator Protection	DNR	-	123	123
50	l Diversity and Access to Wildlife-Related Opportunities	U of MN	-	199	199
51		<b>Subtotal</b>	-	<b>4,638</b>	<b>4,638</b>
52	<b>Subdivision 6 Aquatic and Terrestrial Invasive Species</b>				
53	a Minnesota Invasive Terrestrial Plants and Pests Center	U of MN	-	6,230	6,230
54	b Purple Loosestrife Biocontrol Citizen Science Program	DNR	-	174	174
55		<b>Subtotal</b>	-	<b>6,404</b>	<b>6,404</b>
56	<b>Subdivision 7 Air Quality, Climate Change, and Renewable Energy</b>				
57	a Using Minnesota Timber to Mitigate Landfill Methane Emissions	U of MN	-	1,099	1,099
58	b Green Solar Cells from a Minnesota Natural Resource	U of MN	-	673	673
59		<b>Subtotal</b>	-	<b>1,772</b>	<b>1,772</b>
60	<b>Subdivision 8 Methods to Protect, Restore, and Enhance Land, Water, and Habitat</b>				
61	a Minnesota's Volunteer Rare Plant Conservation Corps	U of MN	-	765	765
62	b Conservation Corps Veterans Service Corps Program	DNR	-	1,339	1,339
63	c Pollinator Habitat Pilot Project at Closed Landfills	PCA	-	1,224	1,224
64	d Creating Seed Sources of Early-Blooming Plants for Pollinators	DNR	-	200	200
65	e Root River Habitat Restoration Project	DNR	-	703	703
66	f Hastings Lake Rebecca Park Area	DNR	-	1,780	1,780
67	g Restoring Forests and Savannas Using Silvopasture- Phase 2	DNR	-	550	550
68	h Pollinator Plantings and the Redistribution of Soil Toxins	U of MN	-	543	543

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69	i Mitigating the Effects of Visitor Use Patterns	DNR	-	432	432
70	j PFAS Fungal-Wood Chip Filtering System	U of MN	-	189	189
71	k Phytoremediation for Extracting Deicing Salt	U of MN	-	451	451
72	l Mustinka River Fish and Wildlife Habitat Corridor Rehabilitation	DNR	-	2,692	2,692
73	m Bohemian Flats Savanna Restoration	DNR	-	255	255
74	n Watershed and Forest Restoration: What a Match!	BWSR	-	3,318	3,318
75		<b>Subtotal</b>	-	<b>14,441</b>	<b>14,441</b>
76	<b>Subdivision 9 Land Acquisition for Habitat and Recreation</b>				
77	a Mesabi Trail: Wahlsten Road (CR 26) to Tower	DNR	-	1,762	1,762
78	b Redhead Mountain Bike Park	DNR	-	1,760	1,760
79	c Environmental Learning Classroom with Trails	DNR	-	82	82
80	d Local Parks, Trails, and Natural Areas Grant Programs	DNR	-	3,560	3,560
81	e St. Louis River Re-Connect	DNR	-	1,780	1,780
82	f Native Prairie Stewardship and Prairie Bank Easement Acquisition	DNR	-	1,353	1,353
83	g Minnesota State Parks and Trails Acquisitions	DNR	-	3,783	3,783
84	h Minnesota State Trails Development	DNR	-	7,018	7,018
85	i Preserving the Avon Hills with Reverse-Bidding Easements	DNR	-	2,231	2,231
86	j SNA Habitat Restoration, Public Engagement, and Protection	DNR	-	2,768	2,768
87		<b>Subtotal</b>	-	<b>26,097</b>	<b>26,097</b>
88	<b>Subdivision 10 Administrative and Emerging Issues</b>				
89	a 2022 Contract Agreement Reimbursement	DNR	-	132	132
90	Transfer from the FY 2022		-	[78]	[78]
91	b Emerging Issues Account		-	250	250
92			-	<b>382</b>	<b>382</b>
93		<b>TOTAL</b>	-	<b>70,881</b>	<b>70,881</b>
94		AMOUNT AVAILABLE	-	70,881	70,881
95	<i>*all values in thousands of \$</i>	Difference	-	-	-
96	<i>**DNR is listed under "Agency" for grants administered to other organizations</i>				