

Environment and Natural Resources Trust Fund FY 2022
HF 1076 1E Article 3- as passed Env. Fin. (4-8-21)

	Project	Agency/Grantee	HF 151 1E as passed Ways and Means			HF 1076 1E Article 3			Change From HF 151 1E
			FY2022	FY 2023	FY22-23	FY2022	FY 2023	FY22-23	
1	Subdivision 3 Foundational Natural Resource Data and Information								
2	a What's Bugging Minnesota's Insect-Eating Birds?	U of MN	199	-	199	199	-	199	-
3	b Protecting Minnesota's Beneficial Macroalgae: All Stoneworts Aren't Starry	DNR	811	-	811	811	-	811	-
4	c County Groundwater Atlas	DNR	1,875	-	1,875	1,875	-	1,875	-
5	d Improving Resiliency and Conservation Outcomes for Minnesota Turtles	MN Zoo	391	-	391	391	-	391	-
6	e Minnesota Biological Survey	DNR	1,500	-	1,500	1,500	-	1,500	-
7	f Groundwater Contamination Mapping Project - Phase II	PCA	800	-	800	800	-	800	-
8	g Geologic Atlases for Water Resource Management	U of MN	3,092	-	3,092	3,092	-	3,092	-
9	h Redwood County Reinvest in Minnesota Easement Evaluation and Public Outreach	DNR	197	-	197	197	-	197	-
10	i Collaborative State and Tribal Wild Rice Monitoring Program	DNR	644	-	644	644	-	644	-
11	j Morrison County Performance Drainage and Hydrology Management II	DNR	197	-	197	197	-	197	-
12	k Exploring Minnesota's Wetlands: Our Resource for Future Medicine	U of MN	210	-	210	210	-	210	-
13	l A Biodiversity Checkup for Minnesota's Big Woods	U of MN	109	-	109	109	-	109	-
14	m Microbiome in Raptors: A New Tool for Conservation	U of MN	129	-	129	129	-	129	-
15	n Bioacoustics for Broad-Scale Species Monitoring and Conservation	U of MN	305	-	305	305	-	305	-
16		Subtotal	10,459	-	10,459	10,459	-	10,459	-
17	Subdivision 4 Water Resources								
18	a Trout Stream Habitat Restoration Success	U of MN	319	-	319	319	-	319	-
19	b Novel Nutrient Recovery Process from Wastewater Treatment Plants	U of MN	200	-	200	200	-	200	-
20	c Monitoring Emerging Viruses in Minnesota's Urban Water Cycles	U of MN	416	-	416	416	-	416	-
21	d Microgeographic Impact of Antibiotics Released from Identified Hotspots	U of MN	508	-	508	508	-	508	-
22	e Sustainable Irrigation Management: Expanding a Web Application	U of MN	1,139	-	1,139	1,139	-	1,139	-
23	f Assessing Membrane Bioreactor Wastewater Treatment Efficacy	MN STATE COLLEGES	419	-	419	419	-	419	-
24	g Evaluating Coronavirus and Other Microbiological Contamination of Drinking Water Sources from Wastewater	U of MN	594	-	594	594	-	594	-
25	h St. James Pit Water-Level Control Study	DNR	259	-	259	259	-	259	-
26	i Long-Term Nitrate Mitigation by Maintaining Profitable Kernza Production	DNR	485	-	485	485	-	485	-
27	j Antibiotic Resistance and Wastewater Treatment: Problems and Solutions	DNR	432	-	432	432	-	432	-
28		Subtotal	4,771	-	4,771	4,771	-	4,771	-
29	Subdivision 5 Environmental Education								
30	a Increasing Outdoor Learning for Young Minnesotans	DNR	383	-	383	383	-	383	-
31	b Pollinator Education in the Science Classroom	U of MN	366	-	366	366	-	366	-
32	c Minnesota Freshwater Quest: Environmental Education for Youth	DNR	699	-	699	699	-	699	-
33	d Minnesota Master Naturalist: Nature for New Minnesotans	U of MN	293	-	293	293	-	293	-
34	e The Voyageurs Classroom Initiative	DNR	348	-	348	348	-	348	-
35	f Restoring Land and Reviving Heritage: Conservation Through Indigenous Culture	DNR	420	-	420	420	-	420	-
36	g Expanding Access to Environmental Education for Underserved Communities	U of MN	178	-	178	178	-	178	-
37		Subtotal	2,687	-	2,687	2,687	-	2,687	-
38	Subdivision 6 Aquatic and Terrestrial Invasive Species								
39	a Starch Allocation Patterns of Invasive Starry Stonewort Harvested from Lake Koronis	MN STATE COLLEGES	101	-	101	101	-	101	-

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40	b Long-Term Efficacy of Invasive Removal in Floodplain Forests	DNR	25	-	25	25	-	25	-
41	c Oak Wilt Suppression at the Northern Edge - Phase II	DNR	423	-	423	423	-	423	-
42	d Biocontrol of Invasive Species in Bee Lawns and Parklands	U of MN	425	-	425	425	-	425	-
43	e Building Knowledge and Capacity for AIS Solutions	U of MN	3,750	-	3,750	3,750	-	3,750	-
44	f Evaluating Minnesota's Last Best Chance to Stop Carp	U of MN	424	-	424	424	-	424	-
45	g Stop Starry Invasion with Community Invasive Species Containment	DNR	1,000	-	1,000	1,000	-	1,000	-
46		Subtotal	6,148	-	6,148	6,148	-	6,148	-
47	Subdivision 7 Air Quality, Climate Change, and Renewable Energy								
48	a Enhanced Thermo-Active Foundations for Space Heating in Minnesota	U of MN	312	-	312	312	-	312	-
49	b Storing Renewable Energy in Flow Battery for Grid Use	U of MN	2,408	-	2,408	2,408	-	2,408	-
50	c Agrivoltaics to Improve the Environment and Farm Resiliency	U of MN	646	-	646	646	-	646	-
51	d Behavioral Response of Bald Eagles to Acoustic Stimuli	U of MN	261	-	261	261	-	261	-
52	e Create Jobs Statewide by Diverting Materials from Landfills	DNR	2,244	-	2,244	2,244	-	2,244	-
53	f Strengthening Minnesota's Reuse Economy to Conserve Natural Resources	DNR	334	-	334	334	-	334	-
54		Subtotal	6,205	-	6,205	6,205	-	6,205	-
55	Subdivision 8 Methods to Protect, Restore, and Enhance Land, Water, and Habitat								
56	a Camp Ripley Sentinel Landscape Forest Restoration and Enhancements	DNR	731	-	731	731	-	731	-
57	b Restoring Mussels in Streams and Lakes-Continuation	DNR	619	-	619	619	-	619	-
58	c Pollinator Central II: Habitat Improvement With Community Monitoring	DNR	631	-	631	631	-	631	-
59	d Preserving Minnesota's Only Ball Cactus Population	U of MN	103	-	103	103	-	103	-
60	e Prescribed-Fire Management for Roadside Prairies-Phase II	TRANSPORTATION	217	-	217	217	-	217	-
61	f Restoring Upland Forests for Birds	DNR	193	-	193	193	-	193	-
62	g Minnesota Green Schoolyards	DNR	250	-	250	250	-	250	-
63	h Plumbing the Muddy Depths of Superior Hiking Trail	DNR	187	-	187	187	-	187	-
64	i Reducing Plastic Pollution with Biodegradable Erosion Control Products	AURI	200	-	200	200	-	200	-
65	j Remote Sensing and Super Resolution Imaging of Microplastics	U of MN-St. Anthony Fall	309	-	309	309	-	309	-
66	k Woodcrest Trail Expansion	DNR	16	-	16	16	-	16	-
67	l Urban Pollinator and Native American Cultural Site Restoration	DNR	213	-	213	213	-	213	-
68	m Demonstrating Real-World Economic and Soil Benefits of Cover Crops and Alternative Tillage	DNR	288	-	288	288	-	288	-
69	n Creating Cost-Effective Forage and Management Actions for Pollinators	U of MN	198	-	198	198	-	198	-
70	o Shoreline Stabilization, Fishing, and ADA Improvements at Silverwood Park	DNR	200	-	200	200	-	200	-
71	p Lawns to Legumes Program-Phase II	BWSR	993	-	993	993	-	993	-
72	q Reintroducing Bison to Spring Lake Park Reserve	DNR	560	-	560	560	-	560	-
73	r Elm Creek Habitat Restoration Final Phase	DNR	521	-	521	521	-	521	-
74		Subtotal	6,429	-	6,429	6,429	-	6,429	-
75	Subdivision 9 Land Acquisition for Habitat and Recreation								
76	a Perham to Pelican Rapids Regional Trail (McDonald Segment)	DNR	2,245	-	2,245	2,245	-	2,245	-
77	b Mesabi Trail CSAH 88 to ELY	DNR	1,650	-	1,650	1,650	-	1,650	-
78	c Southwest Minnesota Single-Track Trail	DNR	190	-	190	190	-	190	-
79	d Local Parks, Trails, and Natural Areas Grant Programs	DNR	2,250	-	2,250	2,250	-	2,250	-

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80	e Metropolitan Regional Parks System Land Acquisition-Phase VII	Metropolitan Council	2,250	-	2,250	2,250	-	2,250	-
81	f Sauk Rapids Lions Park Riverfront Improvements	DNR	463	-	463	463	-	463	-
82	g City of Brainerd-Mississippi Landing Trailhead	DNR	2,850	-	2,850	2,850	-	2,850	-
83	h Native Prairie Stewardship and Prairie Bank Easement Acquisition	DNR	1,341	-	1,341	1,341	-	1,341	-
84	i Moose Lake-Trunk Highway 73 Trail	DNR	330	-	330	330	-	330	-
85	j SNA Acquisition, Restoration, Citizen-Science, and Outreach	DNR	3,336	-	3,336	3,336	-	3,336	-
86	k Precision Acquisition for Restoration, Groundwater Recharge, and Habitat	DNR	467	-	467	467	-	467	-
87	l Lake Brophy Single-Track Trail Expansion	DNR	100	-	100	100	-	100	-
88	m Veterans on the Lake	DNR	553	-	553	553	-	553	-
89	n Crane Lake Voyageurs National Park Visitor Center- Continuation	DNR	2,700	-	2,700	2,700	-	2,700	-
90	o Brookston Campground, Boat Launch, and Outdoor Recreational Facility Planning	DNR	425	-	425	425	-	425	-
91	p Moose and Seven Beaver Multiuse Trails Upgrade	DNR	900	-	900	900	-	900	-
92	q Above the Falls Regional Park Acquisition	DNR	950	-	950	950	-	950	-
93	r Silver Lake Trail Improvement Project	DNR	1,071	-	1,071	1,071	-	1,071	-
94	s Minnesota State Trails Development	DNR	4,266	-	4,266	4,266	-	4,266	-
95	t Highbanks Ravine Bat Hibernaculum	DNR	825	-	825	825	-	825	-
96	u State Parks and Trails Inholdings	DNR	2,560	-	2,560	2,560	-	2,560	-
97	v Accessible Fishing Piers and Shore Fishing Areas	DNR	340	-	340	340	-	340	-
98		Subtotal	32,062	-	32,062	32,062	-	32,062	-
99	Subdivision 10 Administrative and Emerging Issues								
100	a Contract Agreement Reimbursement	DNR	135	-	135	135	-	135	-
101	b LCCMR Administration	LCC	1,750	-	1,750	1,750	-	1,750	-
102	c Emerging Issues Account		233	-	233	233	-	233	-
103	d Legislative Coordinating Commission Administration (Website)	LCC	2	-	2	2	-	2	-
104			2,120	-	2,120	2,120	-	2,120	-
105		TOTAL	70,881	-	70,881	70,881	-	70,881	-
106		AMOUNT AVAILABLE	70,881	-	70,881	70,881	-	70,881	-
107		Difference	-	-	-	-	-	-	-
108									
109	Subdivision 19 Repurpose of Prior Appropriations								
110	a Forest Health Research, Development and Demonstration	U of MN -NRRRI	-	-	-	840	-	840	840
111	(1) Geotargeted Distributed Clean Energy Initiative- ML 2017, Ch, 96, Sec. 2, Sub. 7, Par. (e)		-	-	-	(250)	-	(250)	(250)
112	(2) Minnesota Bee and Beneficial Species Habitat Restoration- ML 2017, Ch, 96, Sec. 2, Sub. 8, Par. (g)		-	-	-	(20)	-	(20)	(20)
113	(3) Swedish Immigrant Regional Trail Segment Within Interstate State Park- ML 2018, Ch. 214, Art. 4, Sec. 2, Sub. 9, Par. (e)		-	-	-	(350)	-	(350)	(350)
114	(4) Expanding Camp Sunrise Environmental Program- ML 2019, 1st SS, Ch. 4, Art. 2, Sec. 2, Sub. 5, Par. (a)		-	-	-	(220)	-	(220)	(220)
115		Repurpose Prior Appropriations NET TOTAL	-	-	-	-	-	-	-

116 *all values in thousands of \$