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		Project	Agency/Grantee	As Introduced Year	*HF 4554 1E Article 3* Year				*HF 4554 2E Article 3* Year			
				FY 2021	FY2020	FY 2021	FY20-21	*change*	FY2020	FY 2021	FY20-21	*change*
1	**Subdivision 3 Foundational Natural Resource Data and Information**											
2	a	Geologic Atlases for Water Resource Management	U of MN	2,000	-	2,000	2,000	-	-	2,000	2,000	-
3	b	Expanding Minnesota Ecological Monitoring Network	DNR	800	-	800	800	-	-	800	800	-
4	c	County Groundwater Atlas	DNR	1,125	-	1,125	1,125	-	-	1,125	1,125	-
5	d	Foundational Hydrology Data For Wetland Protection and Restoration	DNR	400	-	400	400	-	-	400	400	-
6	e	Voyageurs Wolf Project - Phase II	U of MN	575	-	575	575	-	-	575	575	-
7	f	Expanding Restoration and Promoting Awareness of Native Mussels	MN Zoo	489	-	489	489	-	-	489	489	-
8	g	Improving Pollinator Conservation By Revealing Habitat Needs	U of MN	500	-	500	500	-	-	500	500	-
9	h	Bee Minnesota - Protect Our Native Bumblebees	U of MN	650	-	650	650	-	-	650	650	-
10	i	Bobcat and Fisher Habitat Use and Interactions	U of MN	400	-	400	400	-	-	400	400	-
11	j	Healthy Prairies III: Restoring Minnesota Prairie Plant Diversity	U of MN	500	-	500	500	-	-	500	500	-
12	k	Freshwater Sponges and AIS: Engaging Citizen Scientists	U of MN	400	-	400	400	-	-	400	400	-
13	l	Do Beavers Buffer Against Droughts and Floods?	DNR-Voyageurs National Park	168	-	168	168	-	-	168	168	-
14	m	Enhancing Bat Recovery By Optimizing Artificial Roost Structures	DNR	190	-	190	190	-	-	190	190	-
15	n	Tools For Supporting Healthy Ecosystems and Pollinators	DNR	198	-	198	198	-	-	198	198	-
16	o	Conserving Black Terns and Forster's Terns In Minnesota	U of MN- NRRI	198	-	198	198	-	-	198	198	-
17			**Subtotal**	**8,593**	**-**	**8,593**	**8,593**	**-**	**-**	**8,593**	**8,593**	**-**
18	**Subdivision 4 Water Resources**											
19	a	Unprecedented Change Threatens Minnesota's Pristine Lakes	Science Museum	600	849	-	849	*249*	849	-	849	-
20	b	Managing Highly Saline Waste From Municipal Water Treatment	U of MN	250	-	250	250	-	-	250	250	-
21	c	Technology for Energy-Generating On-Site Industrial Wastewater Treatment	U of MN	450	-	450	450	-	-	450	450	-
22	d	Microplastics: Transporters of Contaminants in Minnesota Waters	U of MN	425	-	425	425	-	-	425	425	-
23	e	Developing Strategies to Manage PFAS in Land Applied Biosolids	PCA	1,000	-	1,404	1,404	*404*	-	1,404	1,404	-
24	f	Quantifying New Urban Precipitation and Water Reality	U of MN	500	-	500	500	-	-	500	500	-
25	g	Innovative Solution for Protecting Minnesota from PFAS Contamination	DNR-Dem-Con	250	-	250	250	-	-	250	250	-
26	h	Expanding Protection of Minnesota Water Through Industrial Conservation	U of MN	178	-	178	178	-	-	178	178	-
27	i	COVID-19 Effects on Wastewater Treatment	U of MN		699	-	699	*699*	699	-	699	-
28			**Subtotal**	**3,653**	**1,548**	**3,457**	**5,005**	***1,352***	**1,548**	**3,457**	**5,005**	**-**
29	**Subdivision 5 Technical Assistance, Outreach, and Environmental Education**											
30	a	Statewide Environmental Education Via Public Television Outdoor Series	DNR-Pioneer Public Television	300	-	300	300	-	-	300	300	-
31	b	Minnesota Freshwater Quest: Environmental Education on State Waterways	DNR-Wilderness Inquiry	500	-	500	500	-	-	500	500	-
32	c	Teach Science: Schools as STEM Living Laboratories	DNR-Climate Generation	250	-	368	368	*118*	-	368	368	-
33	d	Mentoring Next Generation of Conservation Professionals	DNR-MVNWRT	500	-	500	500	-	-	500	500	-
34	e	Jay C. Hormel Nature Center Supplemental Teaching Staff	DNR-Austin	225	-	225	225	-	-	225	225	-
35	f	375 Underserved Youth Learn Minnesota Ecosystems by Canoe	DNR-YMCA	375	-	375	375	-	-	375	375	-
36	g	YES! Students Take on Water Quality Challenge - Phase II	DNR-Prairie Woods ELC	199	-	199	199	-	-	199	199	-
37	h	Engaging Minnesotans With Phenology: Radio, Podcasts, Citizen Science	DNR-Northern Community Radio	198	-	198	198	-	-	198	198	-
38	i	Driving Conservation Behavior For Native Mussels and Water Quality	MN Zoo	191	-	191	191	-	-	191	191	-
39	j	Workshops and Outreach to Protect Raptors from Lead Poisoning	U of MN Raptor Center		-	133	133	*133*	-	133	133	-
40			**Subtotal**	**2,738**	**-**	**2,989**	**2,989**	***251***	**-**	**2,989**	**2,989**	**-**
41	**Subdivision 6 Aquatic and Terrestrial Invasive Species**											
42	a	Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC)-Phase V	U of MN	5,000	-	5,658	5,658	*658*	-	5,000	5,000	*(658)*
43	b	Protect Community Forests by Managing Ash for Emerald Ash Borer	DNR	3,500	320	3,937	4,257	*757*	320	3,500	3,820	*(437)*

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44	c	Biological Control of White-Nose Syndrome in Bats-Phase III	DNR (amendment changes to U of MN)	440	-	440	440	-	-	440	440	-
45	d	Applying New Tools and Techniques Against Invasive Carp	DNR	478	-	478	478	-	-	478	478	-
46	e	Emerald Ash Borer and Black Ash: Maintaining Forests and Benefits	U of MN	700	-	700	700	-	-	700	700	-
47	f	Testing Effectiveness of Aquatic Invasive Species Removal Methods	U of MN-NRRI	110	-	110	110	-	-	110	110	-
48	g	Invasive *Didymosphenia* Threatens North Shore Streams	Science Museum	197	-	197	197	-	-	197	197	-
49			**Subtotal**	**10,425**	**320**	**11,520**	**11,840**	***1,415***	**320**	**10,425**	**10,745**	***(1,095)***
50	**Subdivision 7 Air Quality and Renewable Energy**											
51	a	Storing Renewable Energy in Flow Batter For Grid Use	U of MN-Morris	250	-	250	250	-	-	250	250	-
52	b	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	U of MN	193	-	193	193	-	-	193	193	-
53	c	Diverting Unsold Food From Landfills and Reducing Greenhouse Gases	DNR-Second Harvest Heartland	130	-	130	130	-	-	130	130	-
54			**Subtotal**	**573**	**-**	**573**	**573**	**-**	**-**	**573**	**573**	**-**
55	**Subdivision 8 Methods to Protect or Restore Land, Water, and Habitat**											
56	a	Pollinator Central: Habitat Improvement With Citizen Monitoring	DNR-Great River Greening	750	-	750	750	-	-	750	750	-
57	b	Pollinator and Beneficial Insect Strategic Habitat Program	BWSR	750	-	750	750	-	-	750	750	-
58	c	Lignin-Coated Fertilizers For Phosphate Control	U of MN-NRRI	250	-	250	250	-	-	250	250	-
59	d	Implementing Hemp Crop Rotation to Improve Water Quality	MNSCU-Central Lakes College	700	-	700	700	-	-	700	700	-
60	e	Developing Cover-Crop Systems for Sugar Beet Production	U of MN	300	-	300	300	-	-	300	300	-
61	f	Native Eastern Larch Beetle Decimating Minnesota's Tamarack Forests	U of MN	398	-	398	398	-	-	398	398	-
62	g	Habitat Associations of Mississippi Bottomland Forest March Birds	DNR-Audubon	275	-	275	275	-	-	275	275	-
63	h	Peatland Restoration in the Lost River State Forest	DNR-Roseau River WD	135	-	135	135	-	-	135	135	-
64	i	Prescribed Burning for Brushland-Dependent Species-Phase II	U of MN	147	-	147	147	-	-	147	147	-
65	j	Pollinator Habitat Creation Along Urban Mississippi River	DNR-Friends of the Mississippi River	129	-	129	129	-	-	129	129	-
66	k	Increase Golden Shiner Production to Protect Aquatic Communities	U of MN-Sea Grant	188	-	188	188	-	-	188	188	-
67	l	Restoring Turf to Native Pollinator Gardens Across Metro	DNR-Wilderness in the City	197	-	197	197	-	-	197	197	-
68	m	Lawns to Legumes	BWSR		900	-	900	*900*	900	-	900	-
69			**Subtotal**	**4,219**	**900**	**4,219**	**5,119**	***900***	**900**	**4,219**	**5,119**	**-**
70	**Subdivision 9 Land Acquisition, Habitat, and Recreation**											
71	a	DNR Scientific and Natural Areas	DNR	3,000	-	3,000	3,000	-	-	3,000	3,000	-
72	b	Private Native Prairie Conservation Through Native Prairie Bank	DNR	2,000	-	2,000	2,000	-	-	2,000	2,000	-
73	c	Minnesota State Parks and Trails Inholdings	DNR	3,500	-	3,500	3,500	-	-	3,500	3,500	-
74	d	Grants for Local Parks, Trails, and Natural Areas	DNR	2,400	-	2,400	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	-	-	1,800	1,800	-
76	f	Minnesota Hunter Walking Trails: Public Land Recreation	DNR-Ruffed Grouse Society	300	-	300	300	-	-	300	300	-
77	g	Turning Back to Rivers: Environmental and Recreational Protection	DNR-TPL	1,000	-	1,000	1,000	-	-	1,000	1,000	-
78	h	Metropolitan Regional Parks System Land Acquisition-Phase VI	Metropolitan Council	1,000	-	1,000	1,000	-	-	1,000	1,000	-
79	i	Minnesota State Trails Development	DNR	994	-	994	994	-	-	994	994	-
80	j	Elm Creek Restoration-Phase IV	DNR-Champlin	500	-	500	500	-	-	500	500	-
81	k	Superior Hiking Trail as Environmental Showcase	DNR-Superior Hiking Trail Association	450	-	450	450	-	-	450	450	-
82	l	Upper St. Anthony Falls Enhancements	DNR-Friends of the Locke and Dam	2,800	-	2,800	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	-	-	500	500	-
84	n	Perham to Pelican Rapids Regional Trail (West Segment)	DNR-Otter Tail County	2,600	-	2,600	2,600	-	-	2,600	2,600	-
85	o	Crow Wing County Community Natural Area Acquisition	DNR-Crow Wing County	400	-	400	400	-	-	400	400	-
86	p	Rocori Trail-Phase III	DNR-Rocori Trails Construction Board	1,200	-	1,200	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	-	-	1,000	1,000	-
88	r	Ranier Safe Harbor and Transient Dock on Rainy Lake	DNR-Ranier	762	-	762	762	-	-	762	762	-
89	s	Crane Lake Voyageurs National Park Campground and Visitor Center	DNR-Crane Lake	3,100	-	3,100	3,100	-	-	3,100	3,100	-

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90	t	Chippewa County Acquisition, Recreation and Education	DNR-Chippewa County	160	-	160	160	-	-	160	160	-
91	u	Sportsmen's Training and Developmental Learning Center	DNR-MN Forest Zone Trappers Association	85	-	85	85	-	-	85	85	-
92	v	Birch Lake Recreation Area	DNR-Babbitt		-	350	350	*350*	-	350	350	-
93			**Subtotal**	**29,551**	**-**	**29,901**	**29,901**	***350***	**-**	**29,901**	**29,901**	**-**
94	**"Subdivision 10 Emerging Issues Account" (added in the 2E version)**											
95		Wastewater Renewable Energy Demonstration Grants	PFA						-	1,095	1,095	*1,095*
96									**-**	**1,095**	**1,095**	***1,095***
97	**Subdivision 10 Contract Agreement Reimbursement (Subdivision 11 in 2E version)**											
98	a	Contract Agreement Reimbursement	DNR	135	-	135	135	-	-	135	135	-
99			**Subtotal**	**135**	**-**	**135**	135	-	**-**	**135**	135	-
100			**TOTAL**	**59,887**	**2,768**	**61,387**	**64,155**	***4,268***	**2,768**	**61,387**	**64,155**	**-**
101		**all values in thousands of $*										
102			AMOUNT AVAILABLE	61,387	2,768	61,387			2,768	61,387		
103			Difference	1,500	-	-			-	-		

104 **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)