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End Date	Year	ENRTF ID	Subd.	Title Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
6/30/2023	2015		06a	Minnesota Invasive Terrestrial Plants and Pests Center	U of MN - MITPPC	Robert Venette		The Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) funded 20 research sub-projects through this appropriation to better protect Minnesota lands from the harmful effects of 14 priority invasive species, such as garlic mustard, soybean aphid, and oak wilt. MITPPC discoveries improved TIS management across Minnesota.
6/30/2023	2016		06a	<u>Minnesota Invasive Terrestrial Plants</u> and Pests Center - Phase III	U of MN - MITPPC	Robert Venette	\$ 3,750,000	The Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) funded 10 research sub-projects through this appropriation to protect Minnesota lands from the harmful effects of 11 priority invasive species such as common buckthorn, emerald ash borer (EAB), and several knotweeds. Results from these projects were featured prominently by local media.
6/30/2023	2017		03n	Pollinator Research and Outreach	U of MN	Daniel Cariveau	\$ 500,000	
6/30/2023	2017		07d	District Heating with Renewable Biomass at Camp Ripley Training Center	Department of Military Affairs	Jay Brezinka	\$ 1,000,000	The scope of this project was to install a biomass heating plant that would service seven buildings, including mechanical and distribution systems. We received an architect estimate and the base cost for the project in total was \$7,122,035. The project was therefore canceled and funds returned to ENRTF.
6/30/2023	2017		08k	Conservation Reserve Enhancement Program (CREP) Outreach and Implementation	Board of Water and Soil Resources	Dusty VanThuyne	\$ 6,000,000	This project assisted farmers and landowners in enrolling in conservation practices on environmentally sensitives lands by enrolling in the MN CREP program. Through this project, locally trusted staff in 49 counties were able to promote the MN CREP program and assist landowners in permanently protecting 29,350 acres.
6/30/2023	2017		081	Conservation Reserve Enhancement Program (CREP)	Board of Water and Soil Resources	Sharon Doucette	\$ 13,500,000	
6/30/2023	2017		09h	<u>Tower Trailhead Boat Landing and</u> <u>Habitat Improvement – Phase II</u>	City of Tower	Nancy Larson	\$ 600,000	Construction of a trailhead and kiosk, a connecting trail to the Mesabi Trail, and an accessible kayak launch, plus natural habitat development will connect existing recreational and natural resource assets on the East Two River waterway to Lake Vermilion and enhance the outdoor recreation experience for multiple users in northeast Minnesota.

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End Date	Year	ENRTF ID	Subd.	<b>Title</b> Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriate	d Soundbite
6/30/2023	2018		03i	Improve Trout-Stream Management by <u>Understanding Variable Winter Thermal</u> <u>Conditions</u>	U of MN	Rebecca Swenson	\$ 400,00	Conservation plans are based largely on summer dynamics between fish, food sources, and water temperatures. Yet, winter-emerging aquatic insects, primarily Chironomidae, are a locally abundant and critical resource for trout. This project provides insights about winter air and water temperatures, lifecycles of aquatic insects, and impacts on stream food webs.
6/30/2023	2018		051	Increase Diversity in Environmental Careers to Serve Minnesota's Changing Demographics	MN DNR	Mimi Daniel	\$ 550,00	The Increasing Diversity in Environmental Careers (IDEC) program fosters the next generation of environmental and natural resources professionals and enthusiasts. From 2019 to 2023, 45 students enrolled in the IDEC program learned about and gained hands-on experience in the environmental/natural resources field. As a result, as these students become professionals, they will bring diversity and innovation to natural resources management and conservation.
6/30/2023	2018		09h	Protecting North-Central Minnesota Lakes	Crow Wing Soil and Water Conservation District	Andrew Seagren	\$ 750,00	A correlation between forestland protection and water quality has been identified. We provided funding to restoration practices on public lands and protected 1,982 acres of private lands via conservation programs. Land protection efforts were guided by atlases that provided a method to prioritize and target high quality parcels.
6/30/2023	2018		09i	<u>Easement Program for Native Prairie.</u> <u>Bank</u>	MN DNR	Judy Schulte	\$ 2,000,00	Permanently protected 249 acres of high-quality historically undisturbed native prairie, which house state threatened and special concerns species, Species in Greatest Conservation Need and a wide variety of pollinators. Prairie enhancement (903 acres), outreach, monitoring and research activities were implemented across the state to improve prairie habitat.
6/30/2023	2018		09j	Minnesota State Trail Development	MN DNR	Kent Skaar	\$ 2,500,00	00
06/30/2023	2018		09k	Minnesota State Parks and State Trails	MN DNR	Shelby Kok	\$ 2,500,00	00
6/30/2023 SOURCE: LCC	2018		091	Scientific and Natural Areas Program	MN DNR 2 of 12	Judy Schulte	\$ 3,250,00	Volunteers and contractors with Minnesota DNR completed enhancement activities on over 1,300 acres on 73 Minnesota SNAs. The new 215-acre Little Mantrap Lake SNA with over a mile of undeveloped shoreline, 14 native plant communities and a known population of an extremely rare orchid was protected for all to benefit. 6/7/202

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Year	ENRTF ID	Subd.	Title Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
2018		10b	<u>Chronic Wasting Disease Targeted</u> <u>Outreach Engaging Culturally-Diverse</u> <u>Hunting Communities</u>	U of MN	Tiffany Wolf	\$ 270,46	Our project advances inclusive chronic wasting disease (CWD) management through collaboration with Tribal, southeast Asian, and Amish communities. Insights from surveys and interviews inform culturally-attuned CWD outreach, endorsing thriving deer populations while honoring cultural heritage. Our efforts promote community- engaged CWD response strategies to protect Minnesota deer health and community well-being.
2019		03a	Minnesota Biological Survey	MN DNR	Bruce Carlson	\$ 1,500,00	The Minnesota Biological Survey (MBS) collects, interprets, and delivers foundational data on native and rare plants, animals, plant communities, and functional landscapes. These data help prioritize actions to conserve, manage, and restore Minnesota's biological diversity and ecological systems.
2019		03e	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	Julia Ponder	\$ 350,00	We suggest that forest management to promote dense understory structure in boreal forest may provide climate refugia for various species of early successional forest wildlife. The landscape context should also be considered in forest planning in a changing climate to ensure that landscape connectivity is managed to meet wildlife needs.
2019		03f	<u>Understanding Brainworm Transmission</u> to Find Solutions for Minnesota Moose <u>Decline</u>	U of MN	Tiffany Wolf	\$ 400,00	We created new knowledge regarding the ecological context of Parelaphostrongylus tenuis transmission that will aid wildlife and forest managers considering management actions as they try to conserve Minnesota's at-risk moose population.
2019		03h	Accelerated Aggregate Resource Mapping	MN DNR	Heather Arends	\$ 700,00	Minnesota Department of Natural Resources completed and distributed aggregate maps for the following four counties: Sibley, Swift, Redwood, and Kandiyohi. Maps assist governments in planning and conserving of competing resources. Knowing where aggregates are located, supports resilient communities and informed land use decision- making.
2019		03k	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	Alexandra Wardwell	\$ 124,00	Audubon established benchmark survey sites, to guide future conservation activities within Important Bird Areas, for three species of conservation concern: Black Tern, Common Tern and Yellow Rail. Audubon established these important benchmark survey locations for these species, while also working closely to build increase collaboration and communication with many partners. 6/7/202
	2018 2019 2019 2019 2019	2018     2019     2019     2019     2019     2019     2019     2019     2019     2019	2018   10b    2019   03a    2019   03e    2019   03f    2019   03h    2019   03h	YearENRTF IDSubd.Includes link to Final Report (once available)201810bChronic Wasting Disease Targeted. Outreach Engaging Culturally-Diverse. Hunting Communities201903aMinnesota Biological Survey201903eSpruce Grouse as Indicators for Boreal. Forest Connectivity201903fUnderstanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline201903fAccelerated Aggregate Resource. Mapping201903kImplementing Conservation Plans for Avian Species of Concern	YearFINRTF IDSubd.Title Includes link to Final Report (once available)Organization201810bChronic Wasting Disease Targeted Outreach Engaging Culturally-Diverse. Hunting CommunitiesU of MN201903aMinnesota Biological SurveyMN DNR201903eSpruce Grouse as Indicators for Boreal Forest ConnectivityU of MN - Raptor Center201903eSpruce Grouse as Indicators for Boreal Forest ConnectivityU of MN - Raptor Center201903fUnderstanding Brainworm Transmission to Find Solutions for Minnesota Moose DeclineU of MN201903hAccelerated Aggregate Resource. MappingMN DNR201903kImplementing Conservation Plans for. Avian Species of ConcernAudubon Minnesota	Year    ENRTF ID    Subd.    Includes link to Final Report (once available)    Organization    Project Manager      2018     10b    Chronic Wasting Disease Targeted. Outreach Engaging Culturally-Diverse. Hunting Communities    U of MN    Tiffany Wolf      2019     03a    Minnesota Biological Survey    MN DNR    Bruce Carlson      2019     03e    Spruce Grouse as Indicators for Boreal Forest Connectivity    U of MN - Raptor Center    Julia Ponder      2019     03f    Understanding Brainworm Transmission to Find Solutions for Minnesota Moose    U of MN    Tiffany Wolf      2019     03h    Accelerated Aggregate Resource. Mapping    MN DNR    Heather Arends      2019     03h    Accelerated Aggregate Resource. Mapping    MN DNR    Heather Arends      2019     03h    Accelerated Aggregate Resource. Mapping    MN DNR    Heather Arends	Year    ENRTF ID    Subd.    Title Includes link to Final Report (once available)    Organization    Project Manager    S Appropriated      2018     10b    Chronic Wasting Disease Targeted Outreach Engaging Culturally Diverse. Hunting Communities    U of MN    Tiffany Wolf    \$ 270.46i      2019     03a    Minnesota Biological Survey    MN DNR    Bruce Carlson    \$ 1,500,00i      2019     03a    Minnesota Biological Survey    MN DNR    Bruce Carlson    \$ 1,500,00i      2019     03e    Spruce Grouse as indicators for Boreal Forest Connectivity    U of MN - Raptor Center    Julia Ponder    \$ 350,00i      2019     03f    Understanding Brainworm Transmission to Find Solutions for Minnesota Moose. Decline    U of MN    Tiffany Wolf    \$ 400,00i      2019     03h    Accelerated Aggregate Resource. Mapping    MN DNR    Heather Arends    \$ 700,00i      2019     03h    Accelerated Aggregate Resource. Mapping    MN DNR    Alexandra Wardwell    \$ 124,00i

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End Date	Year	ENRTF ID	Subd.	Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
6/30/2023	2019		031	Mapping Aquatic Habitats for Moose	U of MN	Joseph Bump		This project mapped key water habitats used by moose in northern Minnesota, assessed relationship of moose to aquatic plant and fish diversity, and developed research & educational materials about moose ecology and conservation. The primary outcome is a better understanding of important moose habitat in Minnesota.
6/30/2023	2019		03s	<u>Native Bee Survey</u>	MN DNR	Jessica Petersen	\$ 600,000	This project greatly expanded the conservation status of bees in the Laurentian Mixed Forest. We identified 255 species from 9,000 specimens. We made five new state records including one new record for the United States, many new county records, and new plant associations. From these data we will build a list of species in need of conservation.
6/30/2023	2019		03t	<u>Diagnostic Test for Chronic Wasting</u> <u>Disease</u>	U of MN	Peter Larsen	\$ 1,804,000	We invented the world's first portable 24-hour CWD test (Minnesota-QuIC) and a 4-hour microfluidic CWD test. These tests will undergo USDA validation and will be made available to agencies tasked with controlling the spread of CWD. Our innovative CWD outreach activities and products reached over 28,000 Minnesotans.
6/30/2023	2019		04a	<u>Determining Influence of Insecticides on</u> <u>Algal Blooms</u>	U of MN	William Arnold	\$ 350,000	Neonicotinoid and fipronil insecticides are present in lakes, rivers, springs, and shallow groundwater across Minnesota often at concentrations exceeding chronic toxicity thresholds for aquatic invertebrates. The compounds were detected in wastewater, stormwater, and rain/snow, indicating multiple sources to Minnesota waters. No clear association with algal blooms was found.
6/30/2023	2019		04b	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	William Arnold	\$ 415,000	Insight into how fluorinated pesticides and pharmaceuticals present in Minnesota's waters degrade when exposed to sunlight was gained. Some compounds degrade to non-toxic fluoride, while others lead to fluorinated byproducts that may continue to impact the environment. The knowledge was used to help design new medically relevant fluorinated molecules.

End Date	Year	ENRTF ID	Subd.	<b>Title</b> Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
6/30/2023	2019		04e	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	Paige Novak		Inadequately treated wastewater in rural communities contributes to environmental/human health issues. We studied how to improve rural wastewater treatment pond performance. Our results suggested that manually increasing oxygen supply when temperatures are greater than 10°C should improve ammonia biodegradation; if temporary, total nitrogen removal should be possible, improving rural water quality.
6/30/2023	2019		04f	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	Raymond Hozalski	\$ 345,000	This project comprehensively studied the spatio-temporal occurrence of N-nitrosodimethylamine (NDMA, a potent carcinogen) precursors in the Crow River watershed as well as treatment approaches for NDMA precursor removal. The project results will aid in evaluation and mitigation of potential risks from NDMA formation during disinfection of drinking water with chloramines.
6/30/2023	2019		04g	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	Matt Simcik	\$ 250,000	It is possible to drive microplastics and some PFAS into the biosolids of a wastewater treatment plant using stabilized powdered activated carbon. However, the amount required may make the technology cost prohibitive, and may affect the operation of the plant. Further improvements may bring costs down and enable unencumbered operation.
6/30/2023	2019		04h	<u>Reducing Municipal Wastewater</u> Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	Scott Kyser	\$ 250,000	This study identifies wastewater treatment technologies and mechanisms that municipalities can use to treat mercury to low-levels. Cost-effective wastewater technologies that treat solids can be leveraged to also treat mercury to low-levels and this information can be used to reduce discharged mercury which protects the environment and human health.
6/30/2023	2019		04j	<u>Transformation of Plastic Waste into</u> <u>Valued Resource</u>	U of MN	Brett Barney	\$ 225,000	Our project identified prominent strains within microbial communities obtained from Minnesota waters that are able to degrade problem plastics such as polyethylene. In many cases, individual microbial strains were isolated and sequenced to provide a blueprint of strain features that enable this ability to degrade plastics.

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				Title Includes link to Final Report		Project		
End Date	Year	ENRTF ID	Subd.	(once available)	Organization	Manager	ې Appropriated	Soundbite
6/30/2023	2019		041	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Ctr		\$ 741,000	By integrating Kura Clover and Camelina into row crop production we were able to supply producers with data about crop production and water quality impacts to influence adoption. Camelina demonstrates promise when double cropped with soybeans and Kura Clover can be an aggressive nitrogen scavenger and offer opportunities in forage production.
6/30/2023	2019		04q	Restoring Impaired Lakes through Citizen-Aided Carp Management	Carver County Water Management Organization	Andrew Dickhart	\$ 106,000	This project demonstrated new innovative methods of carp management that includes local volunteer residents. The use of baited box nets and an electric guidance system produced an integrated and multi-faceted approach to long term carp management, which we know is important given the longevity of the species.
6/30/2023	2019		04r	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	Tyler Cowing	\$ 175,000	The city constructed a passive nitrate removal system optimized for spring low temperature treatment and partnered with the University of Minnesota to evaluate this field scale model. The results show that the concept of warming the water for early spring treatment works; however, treatment was hindered by algae growth in the greenhouse.
6/30/2023	2019		04s	Degrading Chlorinated Industrial Contaminants with Bacteria	U of MN	Paige Novak	\$ 150,000	A group of bacteria exist that can "breathe" chlorinated pollutants. Naturally occurring chlorinated compounds are formed when leaves and pine needles break down. We discovered that these naturally occurring compounds can speed the rate at which chlorinated pollutants are degraded when added as an amendment.
6/30/2023	2019		05b	<u>Connecting Students to the Boundary</u> <u>Waters</u>	Friends of the Boundary Waters Wilderness	Chris Knopf	\$ 450,000	This project connected over 6,000 Minnesota students to the wildlife, ecology, and history of the Boundary Waters through online resources, classroom visits, and provided opportunities for students to develop deep connections to the wilderness, leadership, and positive peer relationships through overnight wilderness trips.
6/30/2023 SOURCE: LCC	2019		06a	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC 6 of 12	Nicholas Phelps	\$ 4,000,000	This project continued MAISRC's work to develop research- based solutions that can reduce the impacts of aquatic invasive species in Minnesota. Through this appropriation, MAISRC has supported 12 subprojects on many of Minnesota's most important AIS, significantly advanced our scientific understanding and ability to manage AIS, and engaged thousands of stakeholders and partners. <u>6/7/202</u>

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End Date	Year	ENRTF ID	Subd.	<b>Title</b> Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
6/30/2023	2019		06c	Noxious Weed Detection and Eradication	Minnesota Department of Agriculture	Mark Abrahamson	\$ 1,000,000	This project supported noxious weed management on priority species at both the State and local levels and helped to establish and build support systems that will assist noxious weed management efforts beyond the conclusion of the project.
6/30/2023	2019		06d	Emerald Ash Borer Response Grants	MN DNR	Emma Schultz	\$ 300,000	
6/30/2023	2019		07c	Sustainable Solar Energy from Agricultural Plant By-Products	U of MN - Morris	Ted Pappenfus		New materials were developed from agricultural byproducts for use in the fabrication of printed organic solar cells that will lead to a more sustainable, low-cost, renewable energy source in Minnesota.
6/30/2023	2019		07d	Morris Energy and Environment Community Resilience Plan	City of Morris	Blaine Hill	\$ 150,000	This project added capacity in west central MN and Morris to think about sustainability initiatives including clean energy, community resilience, gathering and analyzing building performance data, and community outreach and education focused on MN's changing climate and how it affects west central Minnesotans.
6/30/2023	2019		08b	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	Rebecca Montgomery	¢ 750.000	We evaluated cattle grazing as an oak savanna restoration tool, compared to prescribed burning and tree thinning. Adaptive targeted grazing reduced overgrown shrubs with minimal impacts on wildlife, water quality, or soil health. We promoted this grazing strategy by developing training workshops, webinars, online resources, and a farmer-to- farmer learning network.
6/30/2023	2019		08d	<u>Conserving and Monitoring of</u> <u>Minnesota's Rare Arctic Plants</u>	U of MN - Duluth	Briana Gross		Through three years of genetic and field study, we found that the rare arctic relict plants of Minnesota have retreated northward since the 1900s. They will likely decline into the future, and one species is threatened by an aggressive invasive species. Protection and education are critical to preserve these unique species.

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End Date	Year	ENRTF ID	Subd.	(once available)	Organization	Manager	Appropriated	Soundbite
6/30/2023	2019		08e	Nongame Wildlife Program Acceleration	MN DNR	Kristin Hall	\$ 513,000	Project outcomes for the Nongame Wildlife Program Acceleration project include: 1) improved management and delivery of foundational information on nongame species. 2) new research on declining species and increased status assessment surveys of priority nongame species. 3) increased recreational opportunities through community science, and 4) the creation of a repeatable survey to measure public support for the of the Nongame Wildlife Program.
6/30/2023	2019		08f	Lawns to Legumes	Board of Water and Soil Resources	Dan Shaw	\$ 900,000	The Lawns to Legumes Program is focused on building a movement to support at-risk pollinator species. The project resulted in over 2,300 high diversity residential plantings covering, 4.3 million square feet, and a large numbers of DIY projects across Minnesota inspired and guided by the program.
6/30/2023	2019		09b	Grants for Local Parks, Trails and Natural Areas	MN DNR	Audrey Mularie	\$ 3,000,000	Provide 20 matching grants to local units of government for local parks, acquisition of locally significant natural areas and trails to connect people safety to desirable community locations and regional or state facilities. Park development includes nature-based recreation facilities and does not include playgrounds, sports courts or sport fields.
6/30/2023	2019		09h	Birch Lake Recreation Area Campground	City of Babbitt	Cathy Bissonette	\$ 350,000	The City of Babbitt has completed a new 22-acre campground in the Birch Lake Recreation Area that will include 49 new campsites to accommodate recreational vehicles and tents. The completion of this projects allows area residents and tourists from around the country and Canada to enjoy the unique outdoor experience of Northern Minnesota.
6/30/2023	2019		09k	Bailey Lake Trail and Fishing Pier	City of Virginia	Britt See-Benes	\$ 550,000	The completion of the Baileys Lake Trail and fishing pier provides the community a safe way to enjoy outdoor recreation activities, such as biking, walking, and bird watching, within a city setting. The new pier allows for safe fishing on Baileys Lake without the need for water craft.
6/30/2023	2019			Rainy Lake Recreational Access and Boat Wash Station	City of Ranier	Sherill Gautreaux	\$ 200,000	A new accessible boat launch and accompanying dock was installed. A city owned property was converted into a parking lot for vehicle and trailer parking. A permanent waterless AIS boat wash station and an animal proof receptacle for disposal of bait and boater garbage were also installed.

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End Date	Year	ENRTF ID	Subd.	(once available)	Organization	Manager	Appropriated	Soundbite
6/30/2023	2019		09q	<u>Historic Bruce Mine Park and Mesabi</u> <u>Trailhead</u>	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline	\$ 1,000,000	The project entailed redeveloping a former mine site into a trailhead for the Mesabi Trail and provide an interpretative center and park for the Bruce Mine Headframe Historic Site located in Chisholm, MN. A self-guided tour includes an interpretive center and plaques explaining how the relics operated in the past by using the remaining structures including the headframe, railroad track and various structural foundations. The Park serves as a trailhead for the Mesabi Trail providing parking, restrooms and information to travelers and trail users.
7/31/2023	2020	2020-008	11	<u>Contract Agreement Reimbursement</u>	MN DNR, Grants Unit	Katherine Sherman- Hoehn	\$ 135,000	This appropriation was spent on contract management activities for FY2020, including management of 78 open grants and payment of approximately 180 reimbursement requests.
07/31/2023	2020	2020-011	090	<u>Crow Wing County Community Natural</u> <u>Area Acquisition</u>	Crow Wing County	Jessica Shea	\$ 400,000	We acquired nearly 70 acres of private land adjacent to our historic fire tower county park, protecting and buffering the park from nearby development as well as providing additional area for the park to be expanded and protecting the natural resources in the area.
07/31/2023	2020	2020-014	07c	Diverting Unsold Food From Landfills, Reducing Greenhouse Gases	Second Harvest Heartland	Lindsey Ochmanek	\$ 130,000	During the grant period, we collected over 400,000 pounds of prepared and perishable foods that helped to serve our partners and diverted food waste from landfills. We enrolled 150 new donors to the program and 29 agencies that can receive donations.
12/31/2023	2020	2020-034	04f	Innovative Solution for Protecting Minnesota from PFAS Contamination	Dem-Con	Bill Keegan	\$ 250,000	Given that it is unclear when the regulatory environment will be stabilized, Dem-Con is withdrawing our current project from LCCMR and returning the funds for reallocation to other projects benefiting Minnesota.
07/31/2023	2020	2020-035	06g	Invasive Didymosphenia Threatens North Shore Streams	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$ 197,000	

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End Date	Year	ENRTF ID	Subd.	(once available)	Organization	Manager	Approp		Soundbite
6/30/2024	2020	2020-041	05b	Minnesota Freshwater Quest: Environmental Education On State Waterways	Wilderness Inquiry	Julie Edmiston		500,000	Wilderness Inquiry's Freshwater Quest engaged 8,833 youth across all regions of Minnesota. Using place-based outdoor environmental education, this project inspired the next generation of stewards of Minnesota's natural resources, helping to preserve our state's outdoor economy and the vibrancy and health of our environment and residents.
07/31/2023	2020	2020-049	09n	Perham to Pelican Rapids Regional Trail_ (West Segment)	Otter Tail County	Kevin Fellbaum	\$ 2,6	500,000	Otter Tail County with the help of funding provided by LCCMR were able to build a 7.02-mile multi-modal trail system that connects the city of Pelican Rapids and residents of Otter Tail County to Maplewood State Park. This infrastructure allows people to get outside and enjoy the natural environment.
07/31/2023	2020	2020-058	09u	<u>Sportsmen's Training And</u> <u>Developmental Learning Center</u>	Minnesota Forest Zone Trappers Association	Ray Sogard	\$	85,000	The Minnesota Trappers Association used these funds to complete a site evaluation, master plan, and cost estimate for constructing and outfitting a Sportsmen's Training and Developmental Learning Center located on a 38 acre parcel owned by the Minnesota Forest Zone Trappers Association in Hibbing, MN.
07/31/2023	2020	2020-059	05a	Statewide Environmental Education Via Public Television Outdoor Series	Pioneer PBS	Cindy Dorn	\$3	300,000	Pioneer PBS produced 26 new episodes of Prairie Sportsman, a statewide television series designed to inspire Minnesotans to connect with the outdoors and protect our valuable natural resources. Broadcast in 2022 and 2023, the two 13-episode seasons feature a wide range of topics filmed throughout the state.
7/31/2024	2020	2020-097	09v	Birch Lake Recreation Area Campground	City of Babbit	Cathy Hoheisel	\$ 3!	50,000	
07/31/2023	2021	2021-012	09a	<u>Perham To Pelican Rapids Regional Trail</u> (McDonald Segment)	Otter Tail County	Kevin Fellbaum	\$ 2,2	245,000	Otter Tail County with the help of the funding provided by LCCMR was able to build a 5.760-mile multi-modal trail system that serves as the missing connection between two trail segments connecting the City of Perham and Maplewood State Park.
07/31/2023	2021	2021-017	06a	<u>Starch Allocation Patterns Of Starry</u> <u>Stonewort (Nitellopsis Obtusa)</u> <u>Harvested From Lake Koronis, MN</u>	Minnesota State Colleges and Universities, Minnesota State University Mankato	Ryan Wersal	\$ 1	101,000	Starry stoneworts allocate the majority of its energy to bulbils. Bulbils are easy to transport and can be long-lived in the sediment allowing for the spread and proliferation of this species in MN lakes. Management efforts need interrupt carbohydrate movement and to limit starch accumulation in bulbils.

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End Date	Year	ENRTF ID	Subd.	(once available)	Organization	Manager	Appr	opriated	Soundbite
6/30/2024	2021	2021-027	10a	Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman- Hoehn	\$	135 000	execution of COVID-related amendments to prior-year projects.
07/31/2023	2021	2021-029	09c	SW MN Single Track Trail	Jackson County	Jeremy Bartosh	\$	190 000	A single track mountain bike trails have been created at Belmont Park just North of Jackson, MN! The grant allowed us to build 4-1/2 miles of natural surface biking trails in the unique terrain setting near the Des Moine River. Bikers riding the trails are pumped and thankful!!
10/31/2023	2021	2021-062	08d	Preserving Minnesota's Only Ball Cactus Population	U of MN, Landscape Arboretum	David Remucal	\$	103,000	
6/30/2024	2021	2021-084	08f	Restoring Upland Forests For Birds	American Bird Conservancy / Great Lakes Program	John Haben	\$	193,000	ABC created 12 acres of ESH habitat in partnership with Aitkin County, however the project subsequently ceased due to shifting economic realities that made continuing as a standalone habitat management approach unfeasible.
07/31/2023	2021	2021-109	09i	<u>Moose Lake - Trunk Highway 73 Trail</u>	City of Moose Lake	Ellissa Owens	\$	330,000	The completion of this project has provided tourists and residents access to additional non-motorized trails in northern Minnesota. It connects Willard Munger Trailhead Facilities, Moose Lake State Park, Moosehorn River water access and Moose Lake Campground while allowing access to trails from Duluth to Hinckley.
11/30/2023	2021	2021-137	08h	Plumbing The Muddy Depths Of Superior Hiking Trail	Superior Hiking Trail Association	Lisa Luokkala	\$	187,000	
07/31/2023	2021	2021-222	091	Lake Brophy Trail Expansion	Douglas County Parks	Brad Bonk	\$	100,000	
07/31/2023	2021	2021-229	08k	Woodcrest Trail Expansion	Foundation for Healthcare Continuums, Woodcrest of Country Manor	Kevin Harguth	\$		Existing trails on the property were extended into undeveloped areas to allow community members to safely walk the trails and gain an appreciation for native plants and wildlife of this local area.
07/31/2023 SOURCE: LCC	2021 MR Staff	2021-322	080	Shoreline Stabilization, Fishing, ADA Improvements At Silverwood Park	Three Rivers Park District 11 of 12	Jonathan Vlaming	\$	200,000	This project serves as a model on how to improve water quality through shoreline stabilization in combination with shoreline fishing and ADA fishing access improvements on the island in Silver Lake within Silverwood Park, St. Anthony MN. 6/7/2024

2023 Final Re	ports
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End Date	Year	ENRTF ID	Subd.	Includes link to Final Report (once available)	Organization	Project Manager	\$ Appropriated	Soundbite
07/31/2023	2021	2021-323	05g	Expanding Access To Environmental Education For Underserved Communities	U of MN, Raptor Center	Victoria Hall		The Raptor Center's "Expanding Access to Environmental Education for Underserved Communities" project expanded environmental literacy by delivering 303 programs to underserved schools, engaging 16,317 students with raptor- focused curricula. Through these efforts, we raised public awareness, fostering a greater understanding and appreciation for Minnesota's natural resources and wildlife conservation.
07/31/2023	2021	2021-325	09m	Veterans On The Lake	Veterans on the Lake	Eric Mayranen	\$ 553,000	Activity 1.Construction Engineering - The Cabin engineering and blueprints were completed in the summer of 2021. Activity 2. Paving project complete summer of 2022, Trails project completed the Spring of 2022. Activity 3 Cabin renovation was completed the fall and winter of 2022 and spring on 2023.
6/30/2024	2021	2021-375	08q	<u>Reintroduction Of Bison To Spring Lake</u> <u>Park Reserve</u>	Dakota County	Tom Lewanski	\$ 560,000	This project will increase biodiversity, landscape heterogeneity and ecosystem resiliency through the reintroduction of the primary historic prairie grazer in Minnesota, the American plains bison (Bison bison). By introducing bison, the 150 acres of prairie will become more diverse and will likely enhance ecosystem function and overall stability.
12/31/2023	2021	2021-376	04h	St. James Pit Water Level Control Study	City of Aurora	Lucas Heikkila	\$ 259,000	
12/31/2023	2021	2021-380	09v	Accessible Fishing Piers And Shore Fishing Areas	MN DNR, State Parks and Trails Division	Nancy Stewart	\$ 340,000	