

Environment and Natural Resources Trust Fund (ENRTF) M.L. 2017 LCCMR Work Plan

Date of Submission: 10/21/2016

Date of Next Status Update Report: March 30th 2018

Date of Work Plan Approval:

Project Completion Date: 06/30/2021

Does this submission include an amendment request? No

PROJECT TITLE: MN Honey Bee & Monarch Butterfly Partnership

Project Manager: Steven BurdickOrganization: Pheasants ForeverMailing Address: 1783 Buerkle Cir

City/State/Zip Code: St. Paul / MN / 55110

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Email Address: sburdick@pheasantsforever.org

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Location: Statewide

Total ENRTF Project Budget: ENRTF Appropriation: \$732,000.00

Amount Spent: \$0

Balance: \$732,000.00

Legal Citation: M.L. 2017, Chp. xx, Sec. xx, Subd. xx

Appropriation Language:

[To be inserted following the MN Legislative Session in Spring 2017. This will be blank for the initial submission and will be provided to you at a later date.]

I. PROJECT TITLE: MN Honey Bee & Monarch Butterfly Partnership

II. PROJECT STATEMENT: This proposal contributes to the recovery of monarch butterflies and native pollinators by working cooperatively on 75-100 sites to enhance 800-acres of permanently protected habitat in priority Minnesota landscapes. Enhancements will be designed to provide high-diversity native plantings for the benefit of native pollinators, especially the monarch butterfly. Unique and innovative to this partnership is the effort to engage beekeepers directly (via MN Honey Producer's Association) in the promotion of the program to landowners. Further, we propose to monitor these enhancements in collaboration with the University of Minnesota in an effort to evaluate enhancements, inform practitioners of best practices and provide a path to future habitat enhancements for native pollinators across Minnesota's farmland region. Grassland habitat loss and fragmentation continue to be the major factor in the decline of monarchs, pollinators & grassland wildlife. In Minnesota, 99% of the original prairie has been converted. And while we have restored hundreds of thousands of acres of grasslands over the last three decades, our early restorations rarely considered or appreciated the needs of pollinators, the value of milkweed species to the monarch, or the vegetative structural & species diversity required by many species of grassland dependent wildlife now in decline. Projects will be solicited, scored, and selected to maximize benefits to native bees, honey bees & monarchs. Evaluation criteria will be refined by the project team and include:

- Proximity to native remnant prairie habitats
- Proximity to other permanently protected lands
- Size of restoration and cost share of participating land manager or landowner
- Location in priority area for monarch butterfly
- Proximity to known apiaries
- Adoption of BWSR native vegetation and enhancement guidelines
- Opportunity for additional habitat enhancement

Existing sites will be enhanced by seeding a portion (50:50 is desired) of the field to diverse mixes to provide high quality foraging habitat for native bees and honey bees (funded through partners) and the remainder (likely a larger portion) of the field to diverse mixes that provide high quality breeding habitat for monarch butterflies. The goal is to demonstrate how designed mixes and active re-seeding can provide high quality forage and breeding habitat for honey bees and monarch butterflies. Projects will be solicited by PF and project partners through a sign-up period and project request to SWCD's, the Farm Bill Assistance Partnership (LCCMR Funded), and other private land partners in the agricultural region of Minnesota (please see map for 63-county project area). One of the innovative approaches this proposal takes is to solicit the support of Minnesota Beekeepers in the promotion of the program to the landowners they house their honey bee hives on. By connecting this effort to the Honey Bee & Monarch Butterfly Partnership and the National Fish & Wildlife Foundation's Monarch Conservation Fund, the partners believe this effort provides the programmatic focus and incentives to make real progress towards addressing the habitat needs to improve conditions for monarch butterflies, native bees, and honey bees.

III. OVERALL PROJECT STATUS UPDATES:

Project Status as of March 30, 2018: Project Status as of March 30, 2019: Project Status as of March 30, 2020: Project Status as of March 30, 2021:

Overall Project Outcomes and Results:

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Design & conduct sign-up, do outreach to eligible land managers and landowners, select projects.

Description: Reach out to public land managers and private landowners who own permanently protected habitat to gauge interest, engage in the plight of grassland wildlife including monarch butterfly, native pollinators and grassland birds and provide opportunity to enhance habitat. Engage SWCDs to assist in the development of quality pollinator plot enhancement project proposals for consideration. Engage beekeepers (via Minnesota Honey Producers Association) in the promotion of the program. Design, implement and administer the program.

Summary Budget Information for Activity 1: ENRTF Budget: \$85,625

Amount Spent: \$0

Balance: \$85,625

Outcome	Completion Date
1. Develop and distribute project solicitation, including pollinator project requirements,	8/01/2017 & 2018
eligibility, scoring factors, and information about project implementation.	
2. Outreach to landowners through SWCDs, Farm Bill Assistance Partnership, MN	9/01/2017 & 2018
Department of Agriculture, MN Honey Producer's Association, US Fish & Wildlife Service,	
MN BWSR, MN DNR, PF, University of Minnesota, and other partners.	
3. Develop requests for proposal to implement habitat enhancement deliverables	10/01/2017 & 2018
following PF's procurement policy and following newly updated RIM Conservation Plans.	
4. Rank & award projects, determine if another sign-up is required. This will be done in	10/01/2017 & 2018
collaboration with the project team.	

Activity 1 Status as of March 30, 2018:

Activity 1 Status as of March 30, 2019:

Activity 1 Status as of March 30, 2020:

Activity 1 Status as of March 30, 2021:

Final Report Summary:

ACTIVITY 2: Enhance 800-acres on approximately 75-100 sites with native plantings designed to benefit monarch butterflies & pollinators.

Description: Release RFP's to accomplish the habitat enhancements. This includes all site preparation (mechanical, herbicide, packing), seed, seeding, clipping, or other professional services required to achieve the habitat enhancement objective. Estimated average cost for the establishment of 4-acre monarch/pollinator plots is \$800/acre. BWSR's Native Vegetation Establishment and Enhancement Guidelines will used to help guide the successful planting and management of restoration and conservation projects. Associated enhancement activities include 500-acres of diversity seeding (e.g. brome conversion) at an estimated average cost of \$400/acre. Award contracts, communicate with landowners and partners, & ensure project fulfillment.

Summary Budget Information for Activity 2: ENRTF Budget: \$439,838

Amount Spent: \$0

Balance: \$439,838

Ou	itcome	Completion Date		
1.	Develop work specific RFPs & award contracts to complete pollinator plots (300-acres).	2/01/2018		
2.	Develop work specific RFPs & award contracts to complete associated diversity seeding (500-acres).	2/01/2019		

Activity 2 Status as of March 30, 2018:

Activity 2 Status as of March 30, 2019:

Activity 2 Status as of March 30, 2020: Activity 2 Status as of March 30, 2021: Final Report Summary:

ACTIVITY 3: Assess, monitor, and report results of enhancement activities.

Description: Conduct an assessment of enhancement activities with the University of Minnesota. Assess enhancements for pollinator and plant responses under the direction of Dr. Daniel P. Cariveau. Conduct three habitat tours/workshops that highlight Pollinator & Habitat Enhancement program projects, provide the latest and best science, & best practices for enhancements.

Summary Budget Information for Activity 3: ENRTF Budget: \$ 206,537

Amount Spent: \$0

Balance: \$ 206,537

Outcome	Completion Date
1. Assess plant establishment and insect responses to enhancement activities via	6/30/2021
graduate student over final three years of project	
2. Conduct four habitat tours/workshops	6/30/2021
3. Identify and catalog bees for vouchering specimens at U of M insect collection	6/30/2021

Activity 3 Status as of March 30, 2018:

Activity 3 Status as of March 30, 2019:

Activity 3 Status as of March 30, 2020:

Activity 3 Status as of March 30, 2021:

Final Report Summary:

V. DISSEMINATION:

Description: The work and results of this project will be shared in a number of ways including direct outreach to landowners, press releases distributed by Pheasants Forever or partners, print or electronic newsletters, or through Pheasants Forever's current communication methods that reach out and publicize projects. Social media will be used and coordinated with LCCMR social media efforts. Partners will also be relied upon to disseminate projects, results, and outreach to their respective client bases.

Status as of March 30, 2018: Status as of March 30, 2019:

Status as of March 30, 2020: Status as of March 30, 2021:

Final Report Summary:

VI. PROJECT BUDGET SUMMARY:

A. Preliminary ENRTF Budget Overview:

*This section represents an overview of the preliminary budget at the start of the project. It will be reconciled with actual expenditures at the time of the final report.

Budget Category	\$ Amount	Overview Explanation
Personnel:	\$ 50,625	Position funding for Project Manager and
		Habitat Restoration Specialist to coordinate
		deliverables and fulfill habitat enhancements.
Professional/Technical/Service Contracts:	\$ 650,875	Sub contracts for Graduate Student \$123,049
		(97% salary, tuition, and health, 3% COLA);
		100% FTE each year for 3 years, Graduate

	workshops with expected outreach of 30+ landowners, practitioners, and/or researchers.
l l	
Other: \$ 4	Conduct 4 landowner/practitioner tours and
	design, procure, fulfill, and research habitat projects.
Travel Expenses in MN: \$ 2	In-state travel for Habitat Restoration Specialist, Graduate Student, and Field Technician to
Equipment/Tools/Supplies:	University of MN monitoring equipment, data collection equipment, and data collection equipment such as drawers and cabinets for vouchering specimens.
Sarvica Contracts & &	Advisor \$13,011 (63.2% salary, 33.8% fringe benefits, 3% COLA) 100% FTE for 2 weeks, and Seasonal Field Technician with University of MN \$37,477 (70.7% salary, 26.3% fringe benefits, 3% COLA) 100% FTE each year for 3 years. Service contracts following PF procurement policy for Monarch Butterfly Enhancements, \$240,000 (75 plots, 4 acre average, \$800/acre), and Grassland Enhancements, \$200,000 (contract 500 acres of enhancements @\$400/acre), including but not limited to seed, seeding, site preparation, herbicide, clipping and other site preparation techniques. Professional services for bee identification from University of MN, \$7,500, \$2,500 each year for 3 years, and RIM conservation plan and updates to provide guidance on future management and care, \$30,000 (100 plans @\$300 for participating SWCDs).

Explanation of Use of Classified Staff: N/A

Explanation of Capital Expenditures Greater Than \$5,000: N/A

Total Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: 0.75 FTE

Total Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:

4.50 FTE

B. Other Funds:

Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds					
Non-state								
USFWS Partners for Wildlife-	\$ 100,000	\$0	Assist in delivering private land projects					
Cash								
Pheasants Forever- Cash	\$ 200,000	\$0	Honey Bee & Monarch Butterfly					
			Partnership					

TOTAL OTHER FUNDS:	\$ 494,500	\$ 0	
Minnesota BWSR- Cash	\$ 100,000	\$0	Cost share to improve RIM lands
State	4 4 0 0 0 0 0	4.0	
			implementation with SWCDs and other partners
MN BWSR	\$ 25,920	\$0	Donated staff time for promotion and
Pheasants Forever- In-kind	\$ 12,192	\$ 0	Donated indirect costs
In-kind			the program and results
MN Department of Agriculture-	\$ 1,750	\$0	Donated time to advise and promote
Association – In-kind			the program and results
MN Honey Bee Producer's	\$ 1,500	\$ 0	Donated time of beekeepers to promote
Pheasants Forever - Cash	\$ 20,000	\$0	Support for enhancement activities and outreach
Dhagaanta Farayar Cash	¢ 20 000	\$0	kind support
Participating Landowners- Cash	\$ 74,500	\$0	5% of habitat enhancement project, in-

VII. PROJECT STRATEGY:

A. Project Partners:

Partners receiving ENRTF funding

- University of Minnesota, \$202,037, Research, field work, supplies, travel, and other services.
- Pheasants Forever, \$500,125, coordinate outreach, travel, deliverables, restorations, and enhancements
- Participating SWCDs, \$30,000, deliver updated conservation plans

Partners NOT receiving ENRTF funding

- MN Departmnet of Agriculture, Advisor and promotional efforts
- MN Honey Producers, Advisor and member promotion to landonwers
- MN Department of Natural Resources, Advisor
- MN Association of Soil & Water Districts, Advisor and liaison with SWCDs
- MN Board of Water and Soil Resources, Advisor & RIM adminitrator
- US Fish and Wildlife Service, Advisor and assist in seed costs and seed mixes

B. Project Impact and Long-term Strategy: This proposal catalyzes programmatic focus to deliver objectives of the North American Monarch Conservation Plan and deliver high quality honey bee forage in conjunction with Minnesota beekeepers. Specifically, this proposal aims to plant 800-acres and 30 million milkweed seeds for breeding monarchs, contributing directly to the goals outlined by President Obama's Pollinator Health Task Force (May 2015). Goals outlined in the recently released Pollinator Action Plan call for 7 million acres of restored and enhanced high quality habitat and 1.4 billion milkweed stems by 2020. By providing programmatic focus and demonstrations, a functional enhancement program that lives beyond the 4-year life of the project will be built.

C. Funding History:

F	Funding Source and Use of Funds	Funding Timefra	ame \$ Amount
N/A		N/A	\$ N/A
			\$
			\$

VIII. REPORTING REQUIREMENTS:

- The project is for 4 years, will begin on 07/01/2017, and end on 06/30/2021.
- Periodic project status update reports will be submitted March 30, 2018 of each year.
- A final report and associated products will be submitted between June 30 and August 15, 2021.

IX. VISUAL COMPONENT or MAP(S):

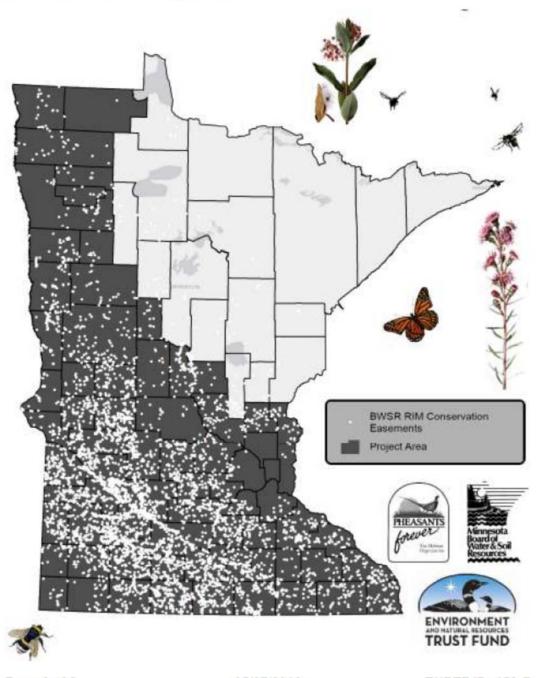
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Environment and Natural Resources Trust Fund (ENRTF) 2017 Attachment

Project Title: MN Honey Bee & Monarch Butterfly Partnership

The MN Honey Bee & Monarch Butterfly Partnership will enhance 75-100 sites and 800-acres of the state's existing habitat investments (e.g. State Parks, RIM, WMA, etc.) for the benefit of monarch butterflies and native pollinators. Potential project sites include RIM easements in the 63-county project area that includes the farmland region of Minnesota.



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X. FEE TITLE ACQUISITION/CONSERVATION EASEMENT/RESTORATION REQUIREMENTS:

A. Parcel List:

Restoration

- 1. Provide a statement confirming that all restoration activities completed with these funds will occur on land permanently protected by a conservation easement or public ownership.
 - All restoration activities with these funds will occur on land permanently protected by a conservation easement or in public ownership.
- 2. Summarize the components and expected outcomes of restoration and management plans for the parcels to be restored by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation.
 - Restoration and management plans will include short and long term maintenance strategies, timeline of proposed management, and site specific management considerations. These management plans will be written and delivered by participating SWCD's and will be kept on file within the SWCD.
- 3. Describe how restoration efforts will utilize and follow the Board of Soil and Water Resources "Native Vegetation Establishment and Enhancement Guidelines" in order to ensure ecological integrity and pollinator enhancement.
 - BWSR's Native Vegetation Establishment and Enhancement Guidelines will be used to help guide the successful planting and management of restoration and conservation projects.
- 4. Describe how the long-term maintenance and management needs of the parcel being restored with these funds will be met and financed into the future.
 - Participating SWCD's will deliver an updated conservation plan to the landowner and provide technical assistance as needed to assist the landowner in successful long-term management of the tract.
- 5. Describe how consideration will be given to contracting with Conservation Corps of Minnesota for any restoration activities.
 - Conservation Corps of Minnesota will be give consideration for opportunities per our procurement policy.
- 6. Provide a statement indicating that evaluations will be completed on parcels where activities were implemented both 1) initially after activity completion and 2) three years later as a follow-up. Evaluations should analyze improvements to the parcel and whether goals have been met, identify any problems with the implementation, and identify any findings that can be used to improve implementation of future restoration efforts at the site or elsewhere.
 - We propose to monitor these enhancements in collaboration with the University of Minnesota in an effort to evaluate enhancements, inform practitioners of best practices and provide a path to future habitat enhancements for native pollinators across Minnesota's farmland region. The University of Minnesota will be a sub-contractor to assess, monitor, and report results of enhancement activities. They will conduct an assessment of enhancement activities and assess enhancements for pollinator and plant responses under the direction of Dr. Daniel P. Cariveau. University of MN will also use this monitoring along with the latest and best science to provide guidance on best practices for future enhancements.

Environment and Natural Resources Trust Fund

M.L. 2017 Project Budget

Project Title: MN Honey Bee & Monarch Butterfly Partnership

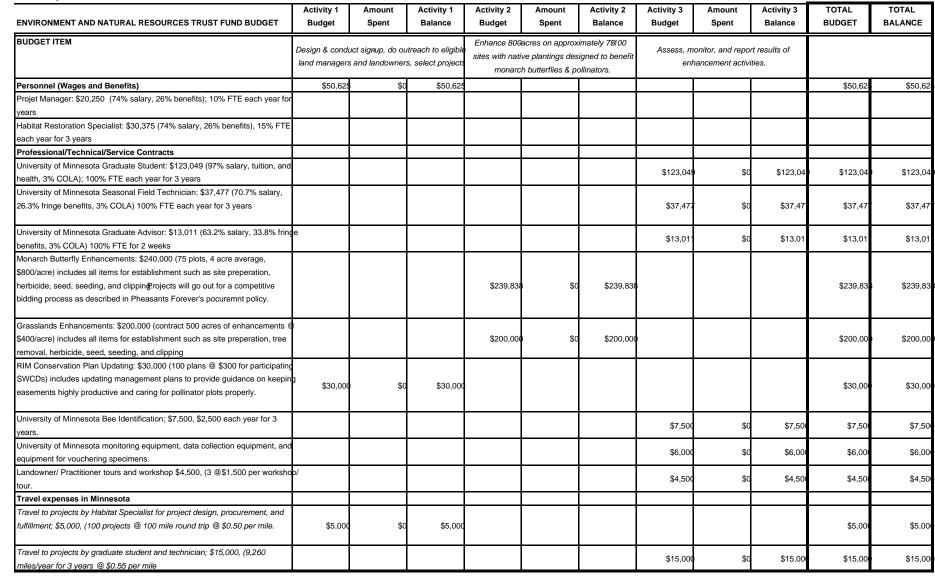
Legal Citation:

Project Manager: Steven Burdick
Organization: Pheasants Forever

M.L. 2017 ENRTF Appropriation: \$732,000

Project Length and Completion Date: 4 Years, June 30, 2021

Date of Report: 10/21/2016







Environment and Natural Resources Trust Fund

M.L. 2017 Parcel List

INSTRUCTIONS:

1. Fill in "Project Title", "Project Manager Name", and "M.L. 2017 ENRTF Appropriation" below.

2. For each individual acquisition or restoration parcel that is being considered as possible/proposed under this appropriation, please indicate a parcel name, geographic coordinates, estimated cost, estimated annual PILT liabilities, ecological significance, activity description, #

of acres, # of shoreline miles (if applicable), proposed final holder of any fee title or conservation easement, and status. One row per individual land parcel.

Add or delete rows as necessary.

3. Use the "Notes" section at the bottom of the page to provide any additional information pertaining to the acquisition list. If there is any requested information you are unable to provide for any of the parcels, please provide an explanation here.

4. Delete this row containing these instructions and any unused rows before submission.

Columns

#: Number each parcel 1 through the total number of parcels.

Acquisition or Restoration Parcel Name: Provide a working title or name used to identify each parcel/restoration area.

Geographic Coordinates: Provide latitude and longitude coordinates for the location of the parcel - preferably the center of the parcel (centorid). Provide latitude and longitude coordinates for the location of the parcel - preferably the center of the parcel (centorid).

Coordinates should be in the format: [Degrees]° [Minutes]' [Seconds]" [Hemisphere].

Estimated Cost: Provide an estimated cost for the parcel.

Estimated Annual PILT Liabilities: If an acquisition will result in payment-in-lieu-of-taxes (PILT) liabilities for the state to a local government, provide an estimated annual cost of those liabilities. Otherwise indicate "N/A".

County: County in which the parcel is locate

Site Significance: Indicate the type of ecosystem that exists on a parcel (e.g., prairie, forest, wetland, savanna) and provide a summary of the ecological significance, site importance, conservation value, and public benefits particular to the parcel.

Activity Description: Provide a description of the activity or activities to occur on the parcel (e.g., fee title acquisition, conservation easement acquisition, site preparation, removal of woody vegetation). For conservation easements indicate whether the easement would be

of Acres: Indicate the size of the parcel to be acquired or restored in acres.

of Shoreline Miles (if applicable): If applicable, indicate the number of shoreline miles being impacted.

Type of Landowner: Indicate the type of current landowner (e.g., private individual/trust, non-profit organization, for-profit entity)

Proposed Fee Title or Easement Holder (if applicable): For land acquisition, indicate the organization or entity that will hold title of lands once acquired.

Status: Indicate the status of the parcel (e.g., engaged in landowner negotiations, no longer in consideration, restoration activities underway). Update the status as it changes over the course of the appropriation.

Project Title: MN Honey Bee & Monarch Butterfly Partnership

Legal Citation:

Project Manager: Steven Burdick

Organization:Pheasants Forever

M.L. 2017 ENRTF Appropriation: \$732,000

Project Length and Completion Date: 4 Years, June 30, 2021

Date of Report: 10/21/2016

	Acquisition or Restoration		Coordinates eg.]° [Min.]' [Hemis.]		Estimated Annual PILT			Activity		# of Shoreline	Type of	Proposed Fee Title or Easement Holder	
#	Parcel Name	Latitude	Longitude	Estimated Cost	Liabilities	County	Site Significance	Description	# of Acres	Miles	Landowner	(if applicable)	Status
	TBD- PROJECTS WILL BE SOLICITED, RANKED AND SELECTED IN A COMPETITIVE BIDDING PROCESS PER PHEASANTS FOREVER PROCUREMENT POLIC												
2													
3													
4													
5													
6													
7													
8													
9													
10													
NO	NOTES:												

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