

[M.L. 2017, Chp. 96, Sec. 2, Subd. 08g] Project Abstract
For the Period Ending June 30, 2021

PROJECT TITLE: Minnesota Bee and Beneficial Species Habitat Restoration
PROJECT MANAGER: Sabin Adams
AFFILIATION: Pheasants Forever
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WEBSITE: www.pheasantsforever.org
FUNDING SOURCE: Environment and Natural Resources Trust Fund
LEGAL CITATION: M.L. 2017, Chp. 96, Sec. 2, Subd. 08g

APPROPRIATION AMOUNT: \$732,000
AMOUNT SPENT: \$681,336.44
AMOUNT REMAINING: \$50,663.56

Sound bite of Project Outcomes and Results

This project's goal was to enhance and study 800 acres of permanently protected habitat by converting low diversity grassland areas to high diversity native grasses and wildflowers. The result of our efforts was the successful enhancement of 1,949.69 acres of habitat to benefit pollinators and other wildlife.

Overall Project Outcome and Results

Grassland habitat loss and fragmentation continue to be the major factor in the decline of monarchs, other pollinators and grassland wildlife. While we have restored hundreds of thousands of acres of grasslands, our early restorations rarely considered the needs of pollinators, the value of milkweed species to the monarch, or the vegetative structural and species diversity required by many species. This project sought to address the loss of habitat essential to pollinators by enhancing 800 acres of low diversity grasslands on permanently protected lands. These enhancements were monitored in collaboration with the University of Minnesota (UofM) to, inform practitioners of best practices and provide a path to future habitat enhancements for native pollinators. Enhancement projects were solicited by Pheasants Forever (PF) and project partners through a sign-up period via an RFP sent to SWCD's and other private land partners in the agricultural region of Minnesota. Application were ranked and funded based on potential benefit to the program. Private contractors were hired by PF to complete enhancement work on 1949.69 acres. After enhancement work was completed researchers from the UofM monitored the sites to measure usage by pollinator species as well as measure native plant growth. Pollinators are extremely important to the production of foods and other products that Minnesotans utilize, as well as other ecosystem services. Whether through funding or policy, the decline of pollinators suggests the need to put a greater emphasis on the protection, restoration, and management of their habitats. Once results are analyzed, the research conducted by the UofM will help improve our best management practices in pollinator habitat restoration and enhancement.

Project Results Use and Dissemination

The enhancement activities completed by this project did not result in the creation of any new tools or documents. Projects were occasionally highlighted in field tours, or via social media posts. The field research conducted by the UofM is now complete, but data analysis and results have yet to be finalized or published. Once complete, this data will be available to the public and should inform practitioners about improved methods for restoring and enhancing pollinator habitat.



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

Date of Submission: 8/12/2021

Date of Next Status Update Report: NA

Date of Work Plan Approval: 06/07/2017

Project Completion Date: 06/30/2021

Does this submission include an amendment request? NO

PROJECT TITLE: Minnesota Bee and Beneficial Species Habitat Restoration

Project Manager: Sabin Adams

Organization: Pheasants Forever

Mailing Address: 1783 Buerkle Cir

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

Telephone Number: 320-250-6317

Email Address: sadams@pheasantsforever.org

Web Address: www.pheasantsforever.org

Location: Statewide

Total ENRTF Project Budget:

ENRTF Appropriation: \$732,000.00

Amount Spent: \$689,096.43

Balance: \$42,903.57

Legal Citation: M.L. 2017, Chp. 96, Sec. 2, Subd. 08g

Appropriation Language:

\$732,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Pheasants Forever in cooperation with the University of Minnesota and the Minnesota Honey Producers Association to restore approximately 800 acres of permanently protected land to enhance bee, butterfly, beneficial insect, and grassland bird habitats. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

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, honeybees & 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 honeybees 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 honeybee 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: This proposal contributes to the recovery of monarch butterflies and native pollinators by working cooperatively to enhance 800-acres of permanently protected habitat in priority Minnesota landscapes. We are working with partners to find projects.

Project Status as of September 30, 2018:

This proposal contributes to the recovery of monarch butterflies and native pollinators by working cooperatively to enhance 800-acres of permanently protected habitat in priority Minnesota landscapes. Pheasants Forever has completed 295.5 acres of monarch enhancements and 714.10 acres of associated grassland enhancements to date for a total of 1,009.6 acres. Projects have been going smoothly with no major problems encountered. We have numerous projects currently in contract stage that will be completed in the spring of 2019 and we

expect to over deliver on our acre goals. We will continue to work with partners and the University of MN to conduct the research aspect of this proposal this coming summer of 2019.

Amendment Request (03/11/2019): Amendment Approved by LCCMR 3/13/2019: Pheasants Forever requests to add the following parcels to the Parcel List: Enger Tract, Brockway Tract, Pembina WMA, GWL Farm Tract, Kelley Tract, Fujan Trust Tract, Pederson Tract as shown in the attached updated parcel list.

Project Status as of March 30, 2019: This proposal contributes to the recovery of monarch butterflies and native pollinators by working cooperatively to enhance 800-acres of permanently protected habitat in priority Minnesota landscapes. Projects have been going smoothly with no major problems encountered. We have numerous projects currently in contract stage that will be completed in the spring of 2019 and we expect to over deliver on our acre goals. We will continue to work with partners and the University of MN to conduct the research aspect of this proposal this coming summer of 2019. We are on track to over accomplish acre and match goals.

Amendment Request (05/03/2019): Amendment Approved by LCCMR 6/25/2019: Pheasants Forever requests to add the Danielson Tract to the parcel list and requests to extend activity 2 completion date into spring of 2020. We were able to accomplish all our acre goals and we still have grant funds left because we were able to bring in more match and contract plantings at a lower cost than expected.

Project Status as of September 30, 2019:

Enhancement projects are finishing up with most work completed. There are still a few projects that have maintenance mowing to be completed this coming spring of 2020 and a few projects that need to be seeded due to delays caused by excessive rain this past spring and fall.

Project Status as of March 30, 2020:

Status has not changed much since September. Several projects were completed, and contractors paid. Additionally, numerous match documents have been received from landowner and partners. Most enhancement projects are finished. However, there are still a few projects that have maintenance mowing to be completed this coming spring of 2020 and a few projects that need to be seeded or burned due to delays caused by excessive rain this past spring and fall.

Amendment Request (04/14/2020): Amendment Approved by LCCMR 5/28/2020.

- We request to change the project manager from Steve Burdick to Sabin Adams because of staffing changes.
- Pheasants Forever requests to extend activity 2 completion date to 6/30/2021. We currently have projects that were set for completion this spring, however due to Covid-19 issue numerous contractors have informed us that field work will have to be delayed until either fall of 2020 or spring 2021. Additionally, we have had several requests from partners to aid in pollinator plantings, and while this short timeframe would make most projects infeasible there are a few that have had site prep completed making them feasible for us to assist with LCCMR funds.
- We are requesting to move funds in Activity One to Activity Two: Grassland Enhancements. From "RIM Conservation Plan Updating" we would move \$18,000. We have only received ~30 applications to do work on RIM easements thus we will not spend all the funds. We would like to leave \$12,000 in case a few more projects come forward if our extension above is approved. Additionally, almost all field work for this grant was completed by SWCD's, FWS, DNR and other partners. Because of this we have used very little of our travel expense and would propose to move \$3,500 from travel to Activity Two: Grassland Enhancements as well.

Lastly, I have updated the “Other Funds” table to show a more accurate depiction of the funds that we are bringing to this grant. First, we have increased funds from our USFWS partners to \$110,000. While all landowners are still being asked to provide 5% match, we have had fewer landowner projects and more FWS projects which explains the difference. This also explains why the Minnesota BWSR \$100,000 cash decreased as well. The \$200,000 of Pheasants Forever Honey Bee and Monarch Butterfly Partnership dollars was not made available in Minnesota and therefore none of those funds can be counted in this grant.

The Support and time donated funds were all part of activities needed to run the program and as such these activities were completed, however in discussing with partners none of the time for these activities was documented. I was present for multiple annual meeting promoting this program with speakers, staff and guests from MN BWSR, MN Dept. of Ag., and Pheasants Forever. Additionally, I have spent many hours working with BWSR on this grant. The position tasked with assisting me has cycled through three employees, and thus the current employee does not have records of how much time was spent on this grant.

Amendment Request (06/3/2020): Amendment Approved by LCCMR 6/11/2020. Pheasants Forever requests to add the following parcels to the Parcel List: Pelican Lake WMA, Lovel Lake WPA, Goose Lake WPA, Quistorff WMA and Ella Lake WPA as shown in the attached updated parcel list.

Project Status as of September 30, 2020:

There are only a few projects with restoration work still being worked on. The remaining projects have very little restoration work remaining such as mowing, or we are waiting for documentation for match. Most have been completed. We are on course to have all work completed before 6/30/2021.

Amendment Request (11/6/2020): Pheasants Forever requests to add the Danielson USFWS easement to the parcel list. This will likely be our final project due to time constraints. This parcel will allow us to bring additional USFWS match to the program as well.

Amendment Request (3/3/2021): Amendment Approved by LCCMR 03/09/2021. Pheasants Forever requests to add the Farhagen WMA upland restoration seed purchase to the parcel list. This will be our final project due to time constraints. We recently received an additional \$18,000 of match funds from BWSR allowing us to do another project.

Project Status as of March 30, 2021:

Pheasants Forever is currently finished with our restoration work in this grant. We are hoping to still collect some match from partners before the final report. The UofM is still working on their final activities and will be done on time.

Amendment Request (5/27/2021): Amendment Approved by LCCMR 5/28/2021

1. We request to create/rename two budget items including “Civil Service” and “University of Minnesota Postdoctoral Research Associate.” This was the intended use of these funds by the UofM, but it was not realized that the budget items were incorrectly labeled. Civil Service is created because the University of Minnesota Bee Lab was able to pay an in-house taxonomist to complete the identifications. As for the Postdoctoral Research Associate, we did not spend salary on the Graduate Advisor as the main duties were overseen by the highly experienced postdoc. With the creation of these categories, we would remove the funds from Graduate Student (\$123,049), Season Field Technician (\$37,477) Graduate advisor(\$13,011) and reallocate them to Civil Service (\$28,133.74) and Postdoctoral Research Associate (\$145,403.26).

Additionally, we are requesting to redistribute the remainder of funds from the UofM Travel (\$10,040.87), Equipment (\$3,642.84), and Bee Identification (\$7,500) categories into Postdoctoral Research Associate (\$166,586.97). The UMN Bee Lab was able to save funding on by utilizing equipment from other projects as well as travel as site visits coincided with another project. We are not requesting any additional funds nor have any of the objectives changed for Activity 3.

2. There was an error noticed in that one of the invoices submitted from the UofM to PF was mislabeled as Equipment when it was in fact a personnel cost. This total of \$7,546.84 was moved from Equipment to Postdoctoral Research Associate. We have made the correction in our accounting records and it is now correct in the budget.

After these changes are made the budget totals will be as follows.

- Postdoctoral Research Associate- (\$166,586.97)
 - Civil Service (\$28,133.74)
 - Graduate Student (\$0)
 - Season Field Technician (\$0)
 - Graduate Advisor (\$0)
 - Bee Identification (\$0)
 - Monitoring equipment, data collection equipment (\$2357.16)
 - UofM Travel (\$4,959.13)
3. Comparing our past reported projects and the parcel list before submitting our March report, it was that noticed that a few project acreages had been reported twice, once when the seed was purchased and again when the seeding invoice was paid. This was corrected in the March report and thus lowered our total acreage for this category by 52.
 4. Lastly in reviewing all of the above it was noticed that the “Summary Budget Information For Activity” numbers were not updated in Activities 1,2 & 3, in the workplan in the Mar. report and did not match the budget. They have been corrected now.

Final Report Summary:

Overall Project Outcomes and Results:

Grassland habitat loss and fragmentation continue to be the major factor in the decline of monarchs, other pollinators and grassland wildlife. While we have restored hundreds of thousands of acres of grasslands, our early restorations rarely considered the needs of pollinators, the value of milkweed species to the monarch, or the vegetative structural and species diversity required by many species.

This project sought to address the loss of habitat essential to pollinators by enhancing 800 acres of low diversity grasslands on permanently protected lands. These enhancements were monitored in collaboration with the University of Minnesota (UofM) to, inform practitioners of best practices and provide a path to future habitat enhancements for native pollinators.

Enhancement projects were solicited by Pheasants Forever (PF) and project partners through a sign-up period via an RFP sent to SWCD’s and other private land partners in the agricultural region of Minnesota. Application were ranked and funded based on potential benefit to the program. Private contractors were hired by PF to

complete enhancement work on 1949.69 acres. After enhancement work was completed researchers from the UofM monitored the sites to measure usage by pollinator species as well as measure native plant growth. Pollinators are extremely important to the production of foods and other products that Minnesotans utilize, as well as other ecosystem services. Whether through funding or policy, the decline of pollinators suggests the need to put a greater emphasis on the protection, restoration, and management of their habitats. Once results are analyzed, the research conducted by the UofM will help improve our best management practices in pollinator habitat restoration and enhancement.

Some additional match dollars were made available, and this was credited to Grassland Enhancements, reducing the total spent from \$215,983.88 as reported in May 2021 to \$208,723.88.

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: \$ 64,125.00
Amount Spent: \$ 52,885.44
Balance: \$ 11,239.56

Outcome	Completion Date
1. <i>Develop and distribute project solicitation, including pollinator project requirements, eligibility, scoring factors, and information about project implementation.</i>	8/01/2017 & 2018
2. <i>Outreach to landowners through SWCDs, Farm Bill Assistance Partnership, MN Department of Agriculture, MN Honey Producer’s Association, US Fish & Wildlife Service, MN BWSR, MN DNR, PF, University of Minnesota, and other partners.</i>	9/01/2017 & 2018
3. <i>Develop requests for proposal to implement habitat enhancement deliverables following PF’s procurement policy and following newly updated RIM Conservation Plans.</i>	10/01/2017 - 7/30/2020
4. <i>Rank & award projects, determine if another sign-up is required. This will be done in collaboration with the project team.</i>	10/01/2017 & 2018

Activity 1 Status as of March 30, 2018:

We have been working with partners to discuss initial outcomes. We are developing a plan to conduct outreach efforts but are waiting until we have projects completed. We will rank projects against one another, and we are confident that we will be funding high quality projects that provide enhanced habitat designed to deliver high-diversity native plantings for the benefit of native pollinators, especially the monarch butterfly.

Activity 1 Status as of September 30, 2018:

We have been working with partners to complete the above outcomes. Outreach efforts have proven to be effective as we are on track to overdeliver on acre goals for this proposal. All projects have been ranked against one another and we are confident that we are funding high quality projects that provide enhanced habitat designed to deliver high-diversity native plantings for the benefit of native pollinators, especially the monarch butterfly.

Activity 1 Status as of March 30, 2019:

We have been working with partners to complete the above outcomes. Outreach efforts have proven to be effective as we are on track to overdeliver on acre goals for this proposal. All projects have been ranked against one another and we are confident that we are funding high quality projects that provide enhanced habitat designed to deliver high-diversity native plantings for the benefit of native pollinators, especially the monarch butterfly.

Activity 1 Status as of September 30, 2019:

Pheasants Forever presented the details of this grant again to SWCD staff and other partners at the Farm Bill Assistant partnership and announced the potential application period pending March funding amendment. Over the spring/summer of 2019 we accepted additional applications for restoration/enhancement projects. Twenty applications were submitted. Of the seventeen we determined that the remaining funds could be used to complete fifteen. It is unlikely that we will do anymore sign-ups. Outcomes 1,2 &4 are likely complete. Outcome three will continue until all enhancement work has been complete

Activity 1 Status as of March 30, 2020:

Activity one is mostly complete. A few things of significance to note. Most of the field work travel was completed by County SWCD staff, thus we did not use very much of our travel budget. Additionally, we are currently collecting documentation from SWCD's that RIM conservation plans were updated so that they may be reimbursed.

Activity 1 Status as of September 30, 2020:

Activity one is mostly complete. We anticipate a few more SWCD's will submit the necessary documents to get reimbursed for writing RIM conservation plans.

Activity 1 Status as of March 30, 2021:

All four objectives in this activity have been completed as well be no longer accepting applications for projects or doing outreach.

Final Report Summary:

All four objectives in this activity were completed successfully with no significant issues experienced. During this project we presented the applications opportunity at numerous BWSR/SWCD employee events/trainings, resulting in 56 applications for projects. Of those applications 45 were determined to be eligible and available for funding. These projects were funded and private contractors were hired by Pheasants Forever following procurement policy.

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: \$ 461,338.00
Amount Spent: \$ 433,949.99
Balance: \$ 27,388.01

Outcome	Completion Date
1. <i>Develop work specific RFPs & award contracts to complete pollinator plots (300-acres).</i>	06/30/2021
2. <i>Develop work specific RFPs & award contracts to complete associated diversity seeding (500-acres).</i>	06/30/2021

Activity 2 Status as of March 30, 2018: We are in the contracting stage and are working to develop statements of work in order to bid out projects to be completed.

Activity 2 Status as of September 30, 2018:

Pheasants Forever has completed 295.5 acres of monarch enhancements and 714.10 acres of associated grassland enhancements to date for a total of 1,231.3 acres. Projects have been going smoothly with no major problems encountered. We have numerous projects currently in contract stage that will be completed in the spring of 2019 and we expect to over deliver on our acre goals.

Activity 2 Status as of March 30, 2019:

Projects have been going smoothly with no major problems encountered. We have numerous projects currently in contract stage. We are requesting to extend activity 2 completion date into spring of 2020. We were able to accomplish all our acre goals and we still have grant funds left because we were able to bring in more match and contract plantings at a lower cost than expected.

Activity 2 Status as of September 30, 2019:

Pheasants Forever has completed 502.2 acres of monarch enhancements and 729.1 acres of associated grassland enhancements to date for a total of 1,009.6 acres. We have numerous projects from past sign ups as well as the most current sign up that have been delayed due to excessive rain events in the spring and falls. We are still planning to complete all these projects in Summer 2020.

Activity 2 Status as of March 30, 2020:

Pheasants Forever has completed 603.6 acres of monarch enhancements and 832.64 acres of associated grassland enhancements to date for a total of 1,436.24 acres. We have numerous projects from past sign ups as well as the most current sign up that have been delayed due to excessive rain events in the spring and falls. We are still planning to complete all these projects in Summer 2020. We currently have exceeded the number of acres that the UofM was needing to complete their research.

Activity 2 Status as of September 30, 2020:

Pheasants Forever has completed 658.3 acres of monarch enhancements and 1074.64 acres of associated grassland enhancements to date for a total of 1,759.94 acres. Many of our ongoing projects were completed this summer with only a few remaining. We currently have exceeded the number of acres that the UofM was needing to complete their research.

Activity 2 Status as of March 30, 2021:

Pheasants Forever has completed 606.47 acres of monarch enhancements and 1343.22 acres of associated grassland enhancements to date for a total of 1,949.69 acres. Many of our ongoing projects are completed with only a few remaining, mostly just waiting to collect additional match from landowners/BWSR. We currently have exceeded the number of acres that the UofM was needing to complete their research.

Final Report Summary:

All 45 funded projects in this program have been completed, resulting in 606.47 acres of monarch enhancements and 1,343.22 acres of associated grassland enhancements for a total of 1,949.69 acres.

Enhancement work included all site preparation (mechanical, herbicide, packing), seed, seeding, mowing, or other professional services required to achieve the habitat enhancement objective. Best management practices for pollinators were followed, including using BWSR’s Native Vegetation Establishment and Enhancement Guidelines. All activities on private acres were communicated with landowners and partners, and ensure project fulfillment. Note in the budget for this report grassland enhancements decreased by \$7,260 from \$215,983.88 to \$208,723.88. The \$215k that was reported in an earlier budget was funds that PF had spent on projects up until that point but not all of those funds had been requested for reimbursement from DNR yet. Before the final report was submitted PF received \$7,260 of cash match for these projects from BWSR. Because of this the funds from BWSR were documented as match below and removed from PF request of LCCMR funds.

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: \$206,537.00
Amount Spent: \$202,261.00
Balance: \$ 4,276.00

Outcome	Completion Date
1. Assess plant establishment and insect responses to enhancement activities via graduate student over final three years of project	6/30/2021
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:

The University is ready to assess plant establishment and complete the above outcomes once the plots are established, which should be by this spring 2019.

Activity 3 Status as of September 30, 2018:

The University is ready to assess plant establishment and complete the above outcomes once the plots are established, which should be by this spring 2019.

Activity 3 Status as of March 30, 2019:

The University of MN is accessing sites and will complete the above outcomes. Sites will continue to be assessed in the last three years 2019, 2020, and 2021.

Activity 3 Status as of September 30, 2019:

We completed our first field season for two projects for Activity 3. In the first project, we surveyed native bee and plant establishment and diversity in 15 pollinator enhancement plantings throughout western Minnesota. We hired two temporary technicians to complete this work with the postdoc. During three sampling rounds, we collected 2,606 native bee specimens which have been cleaned and pinned. Our taxonomist has identified the majority of these bees to species and is consulting with other experts to finalize the remaining difficult species. We surveyed the plant community in a total of 627 1mx1m plots over the course of the three sampling rounds, recording data on percent cover of forbs, grasses, litter, and invasive weeds, and counting the number of flowers on blooming species. All data will be cleaned, checked, and databased this winter. These data will be used to assess the bee and plant diversity and explore whether surrounding land cover affects the early stages of enhancement success.

In the second project, we collected data on plant establishment in 288 small-scale (3mx3m) experimental pollinator seed mix plots at the UMN Rosemount Research & Outreach center in Rosemount, MN. These experimental plots vary in flowering plant diversity, seeding density, and amount of native grass included. We conducted five sample rounds in which we collected data on the percent cover of forbs, grasses, weeds, litter, and bare ground in two 1 m² quadrats per experimental plot to quantify realized plant diversity and density over the first season of growth. We also collected bees foraging in these plots to quantify the pollinator response to the experimental mixes. We have entered and checked the data from the first four rounds of sampling. In addition, we are conducting an intensive vegetation survey once per year at the end of the growing season, ongoing through mid-October. To quantify plant establishment as precisely as possible, we are counting the stem density of all seeded species in the mixes in three 0.1 m² quadrats per plot.

Activity 3 Status as of March 30, 2020:

We completed our first field season for two projects for Activity 3. In the first project, we surveyed native bee and plant establishment and diversity in 15 pollinator enhancement plantings throughout western Minnesota. We hired two temporary technicians to complete this work with the postdoc. During three sampling rounds, we collected 2,606 native bee specimens which have been cleaned and pinned. As of March 31, our taxonomist has identified all of the bee to species. We surveyed the plant community in a total of 627 1mx1m plots over the course of the three sampling rounds, recording data on percent cover of forbs, grasses, litter, and invasive weeds, and counting the number of flowers on blooming species. As of March 31, all bee and plant data have been cleaned and checked. These data will be databased in the Native Bee Lab's SQL database over the next few months. We have begun preliminary analysis 1) to assess bee and plant diversity across our sites, 2) to explore whether surrounding land cover affects the early stages of enhancement success, and 3) to explore the relationship between local floral richness and abundance on individual trap capture rates. We are organizing our second field season for this summer. As of March 31, we have sent a thank you letter to each of the 15 landowners with a list of bee species collected on their property and some representative photos.

In the second project, we collected data on plant establishment in 288 small-scale (3mx3m) experimental pollinator seed mix plots at the UMN Rosemount Research & Outreach center in Rosemount, MN. These experimental plots vary in flowering plant diversity, seeding density, and amount of native grass included. We conducted five sample rounds in which we collected data on the percent cover of forbs, grasses, weeds, litter, and bare ground in two 1 m² quadrats per experimental plot to quantify realized plant diversity and density over the first season of growth. We also collected bees foraging in these plots to quantify the pollinator response to the experimental mixes. We also conducted an intensive vegetation survey at the end of the growing season to quantify plant establishment as precisely as possible by counting the stem density of all seeded species in the mixes in three 0.1 m² quadrats per plot. We have entered, cleaned, and checked all of these data, and begun preliminary analysis on these data. We are organizing our second field season for this summer.

Activity 3 Status as of September 30, 2020:

As of September 30, we have completed two field seasons for two projects for Activity 3. In the first project, we surveyed native bee and plant establishment and diversity in 15 pollinator enhancement plantings throughout western Minnesota. We hired two temporary technicians in 2019 and 2020 to complete this work with the postdoc. In 2019 we conducted three sampling rounds, resulting in 2,606 native bee specimens which have been cleaned, pinned, and identified to species. We also surveyed the plant community in 1mx1m plots at all sites, recording data on percent cover of forbs, grasses, litter, and invasive weeds, and counting the number of flowers on blooming species. Due to COVID-19 restrictions in 2020, we conducted two sampling rounds at 11 of our 15 sites. The bee specimens from this summer will be cleaned, pinned, and identified this winter and the plant survey data will be entered and processed. All data will be databased in the Native Bee Lab's SQL database over the next few months. We have begun preliminary analysis 1) to assess bee and plant diversity across our sites, 2) to explore whether surrounding land cover affects the early stages of enhancement success, and 3) to explore

the relationship between local floral richness and abundance on individual trap capture rates. We have sent thank you letters to the participating landowners for the 2019 field season, and will do this for the 2020 field season over the winter. The letters include a list of bee species collected on each property and some representative photos.

In the second project, we collected data on plant establishment in 288 small-scale (3mx3m) experimental pollinator seed mix plots at the UMN Rosemount Research & Outreach center in Rosemount, MN. These experimental plots vary in flowering plant diversity, seeding density, and amount of native grass included. We conducted five sample rounds in 2019 and four in 2020 (due to COVID-19 restrictions) in which we collected data on the percent cover of forbs, grasses, weeds, litter, and bare ground in two 1 m² quadrats per experimental plot to quantify realized plant diversity and density over the first season of growth. We also collected bees foraging in these plots to quantify the pollinator response to the experimental mixes. We also conducted an intensive vegetation survey at the end of the growing season to quantify plant establishment as precisely as possible by counting the stem density of all seeded species in the mixes in three 0.1 m² quadrats per plot. We have entered, cleaned, and checked all of these data, and begun preliminary analysis on the 2019 data. Our 2020 data will be entered, cleaned, and checked over the next few months.

Activity 3 Status as of March 30, 2021: As of March 30, 2021, we have completed two field seasons for two projects for Activity 3. In the first project, we surveyed native bee and plant establishment and diversity in 15 pollinator enhancement plantings throughout western Minnesota. We hired two temporary technicians in 2019 and 2020 to complete this work with the postdoc. In 2019 we conducted three sampling rounds at all 15 sites, resulting in 2,606 native bee specimens which have been cleaned, pinned, and identified to species. We also surveyed the plant community in 1mx1m plots at all sites, recording data on percent cover of forbs, grasses, litter, and invasive weeds, and counting the number of flowers on blooming species. Due to COVID-19 restrictions in 2020, we conducted two sampling rounds at 11 of our 15 sites, resulting in ~1,500 native bee specimens. From October 2020 through March 30, 2021, we pinned the specimens and entered specimen data and plant survey data. The bee specimens will be identified to species by the UMN taxonomist during April 2021. All data will be databased in the Native Bee Lab's SQL database after final entry of the bee species identifications. We are conducting preliminary analysis 1) to assess bee and plant diversity across our sites, 2) to explore whether surrounding land cover affects the early stages of enhancement success, and 3) to explore the relationship between local floral richness and abundance on individual trap capture rates. We will update these analyses in May and June.

In the second project, we collected data on plant establishment in 288 small-scale (3mx3m) experimental pollinator seed mix plots at the UMN Rosemount Research & Outreach center in Rosemount, MN. These experimental plots vary in flowering plant diversity, seeding density, and amount of native grass included. We conducted five sample rounds in 2019 and four in 2020 (due to COVID-19 restrictions) in which we collected data on the percent cover of forbs, grasses, weeds, litter, and bare ground in two 1 m² quadrats per experimental plot to quantify realized plant diversity and density over the first season of growth. We also collected bees foraging in these plots to quantify the pollinator response to the experimental mixes. We also conducted an intensive vegetation survey at the end of the growing season to quantify plant establishment as precisely as possible by counting the stem density of all seeded species in the mixes in three 0.1 m² quadrats per plot. We have entered, cleaned, and checked all of the 2019 data, and these processes are ongoing for the 2020 data. We have begun preliminary analyses with both years of data.

Final Report Summary: In 2019, we conducted three sampling rounds at 15 sites (Figure 1A and 1B), resulting in 2,606 native bee specimens. In 2020, due to COVID-19 travel restrictions, we conducted two sampling rounds at 11 sites, resulting in 921 bee specimens. Considering both years combined, these specimens represent 101 native bee species or morphospecies. We collected bee specimens using two types of passive traps: bowl traps and blue vane traps (Figures 1C and 1D). The bright colors of the traps attract foraging bees. A small amount of water containing dish soap in each trap kills the

bees, which are collected after a 24-hour period. All bee specimens have been curated and are housed in the collection at the UMN Native Bee Lab. All bee specimens were identified in May 2021 by a taxonomist who specializes on Minnesota bee species.

The number of bee specimens and species collected varied among sites (Table 1) and across dates within sites and seasons (Figure 2). Two declining species of bumble bees occurred at 11 of our sites (Table 1). These species are *Bombus fervidus* (golden northern bumble bee) and *Bombus pensylvanicus* (American bumble bee). Most of the sites where these two species occurred have a high percentage of natural habitat within 1km of the pollinator habitat planting, although they did occur at a few sites with a low amount of natural habitat nearby.

In addition to collecting data on native bees, we also surveyed the plant community in 1m x 1m plots located next to each trap. We recorded data on the percent cover of flowering plants (forbs), grasses, litter, and weeds, and counted the number of flowers of all blooming species. We identified a total of 27 actively blooming native plant species during our surveys.

Over the next several months, we will work on further analyses of these data. In particular, we are interested in putative relationships between establishment of the flowering plant community and bee abundance and diversity, and the effect of surrounding natural habitat on our site-level observations.

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:

There are no results ready to share at this point, but we will continue to promote and share success stories as they arise.

Status as of September 30, 2018:

There are no results ready to share at this point, but we will continue to promote and share success stories as they arise.

Status as of March 30, 2019:

Status as of September 30, 2019:

There are no results ready to share at this point, but we will continue to promote and share success stories as they arise.

Status as of March 30, 2020:

There are no results ready to share at this point, but we will continue to promote and share success stories as they arise.

Status as of September 30, 2020:

There are no results ready to share at this point, but we will continue to promote and share success stories as they arise.

Status as of March 30, 2021:

Pheasants Forever posted to our social media accounts about the successes we have had with the program including a number of projects that have been completed.

Final Report Summary:

Requests for Proposal in this project were disseminated to all SWCD's and MN DNR/USFWS field offices in the project area, resulting in 56 applications for funds. After enhancement work was completed, multiple SWCD's conducted field tours that included projects funded through this program. Pheasants Forever shared RFP's and project highlights via our social media pages. Lastly, once research data analysis and has been completed by the University of MN, this data will be available to the public.

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 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).
Service Contracts - Equipment/Tools/Supplies:	\$ 6,000	University of MN monitoring equipment, data collection equipment, and data collection equipment such as drawers and cabinets for vouchering specimens.
Travel Expenses in MN:	\$ 20,000	In-state travel for Habitat Restoration Specialist, Graduate Student, and Field Technician to design, procure, fulfill, and research habitat projects.

Budget Category	\$ Amount	Overview Explanation
Other:	\$ 4,500	Conduct 4 landowner/practitioner tours and workshops with expected outreach of 30+ landowners, practitioners, and/or researchers.
TOTAL ENRTF BUDGET:	\$ 732,000	

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- Cash	\$ 110,000	\$ 100,415.70	Assist in delivering private land projects
Participating Landowners- Cash	\$ 60,000	\$ 37,916.98	5% of habitat enhancement project, in-kind support
Pheasants Forever - Cash	\$ 20,000	\$ 20,000	Support for enhancement activities and outreach
MN Honey Bee Producer's Association – In-kind	\$ 1,500	\$ 1,500	Donated time of beekeepers to promote the program and results
MN Department of Agriculture- In-kind	\$ 1,750	\$ 1,750	Donated time to advise and promote the program and results
Pheasants Forever- In-kind	\$ 12,192	\$ 12,192	Donated indirect costs
MN BWSR	\$ 25,920	\$ 25,920	Donated staff time for promotion and implementation with SWCDs and other partners
State			
Minnesota BWSR- Cash	\$ 50,000	\$ 61,819.23	Cost share to improve RIM lands
TOTAL OTHER FUNDS:	\$ 281,362	\$261,513.91	

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 Department of Agriculture, Advisor and promotional efforts*
- *MN Honey Producers, Advisor and member promotion to landowners*
- *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 administrator*
- *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:

Funding Source and Use of Funds	Funding Timeframe	\$ Amount
N/A	N/A	\$ N/A
		\$
		\$

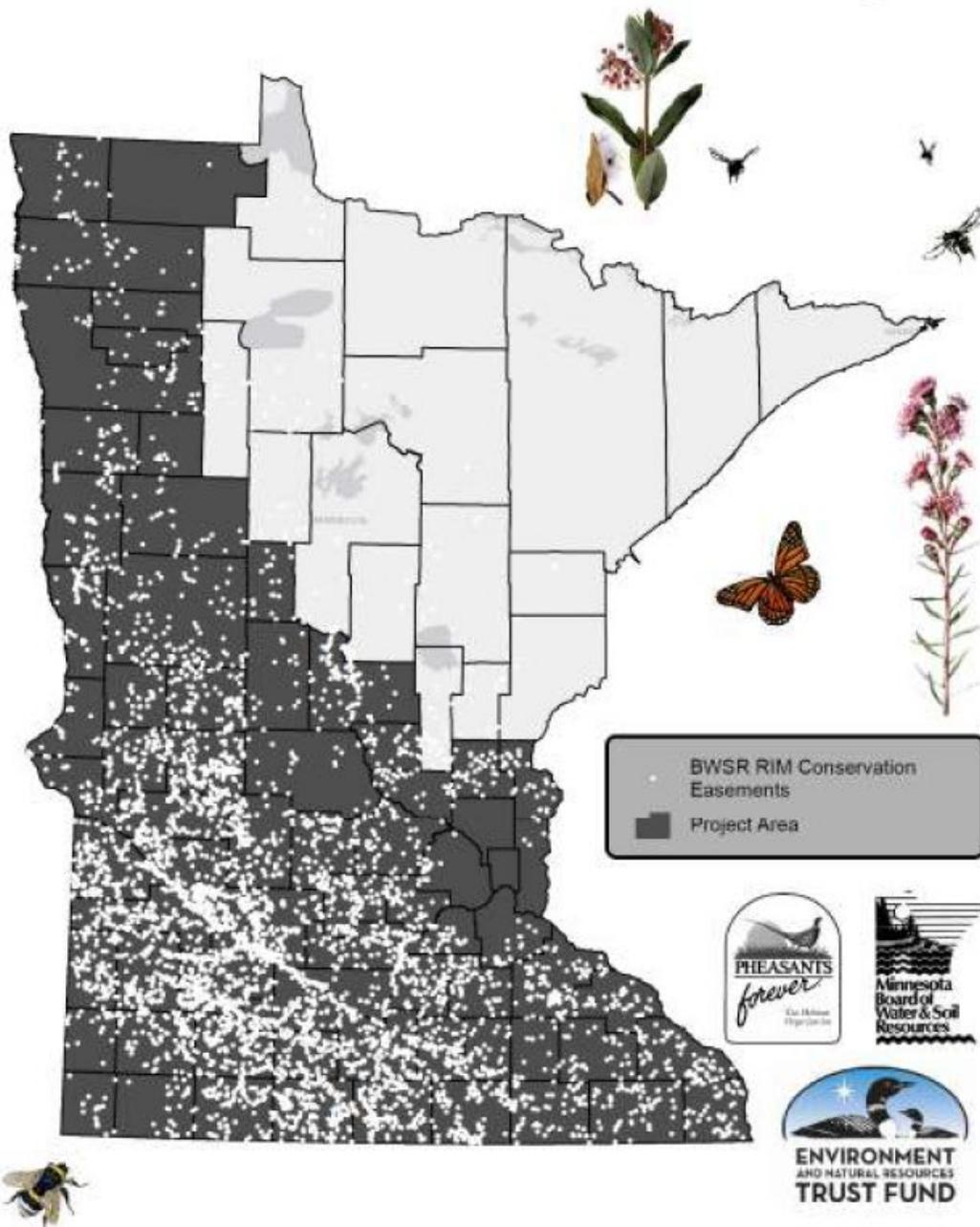
VIII. REPORTING REQUIREMENTS:

- **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 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):



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.



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 Bee and Beneficial Species Habitat Restoration

Legal Citation: ML17 Chp 96 Sec. 2 Subd. 08g

Project Manager: Sabin Adams

Organization: Pheasants Forever

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

Project Length and Completion Date: 6/30/21

Period: 03/30/2021-06/30/2021

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Activity 1 Budget 3/30/2021	Amount Spent	Activity 1 Balance	Activity 2 Budget	Amount Spent	Activity 2 Balance	Activity 3 Budge	Amount Spent	Activity 3 Balance	TOTAL BUDGET	Amount Spent	Total Budget Balance
BUDGET ITEM												
Personnel (Wages and Benefits)	50,625.00	47,829.53	2,795.47							50,625.00	47,829.53	2,795.47
<i>Project Mgr. \$20,250 (74% salary, 26% benefits) 10% FTE each year for 3 years</i>										-	-	-
<i>Habitat Restoration Specialist: \$30,375 (74% salary, 26% benefits 15% FTE each year for 3 years</i>										-	-	-
Professional/Technical/Service Contracts										-	-	-
<i>University of Minnesota Postdoctoral Research Associate: \$166,586.97 (97% salary, tuition, and health, 3% COLA); 100% FTE each year for 3 years</i>							166,586.97	166,586.97	-	166,586.97	166,586.97	-
<i>University of Minnesota, Civil Service: \$28,133.74</i>							28,133.74	28,133.74	-	28,133.74	28,133.74	-
<i>Monarch Butterfly Enhancements: \$240,000 (75 plots, 4 acre average, \$800/acre) includes all items for establishment such as site preparation, herbicide, seed, seeding, and clipping. Projects will go out for a competitive bidding process as described in Pheasants Forever's procurement policy.</i>				239,838.00	225,226.11	14,611.89				239,838.00	225,226.11	14,611.89
<i>Grasslands Enhancements: \$200,000 (contract 500 acres of enhancements @ \$400/acre) includes all items for establishment such as site preparation, tree removal, herbicide, seed, seeding, and clipping</i>				221,500.00	208,723.88	12,776.12				221,500.00	208,723.88	12,776.12
<i>RIM Conservation Plan Updating: \$30,000 (100 plans @ \$300 for participating SWCDs) includes updating management plans to provide guidance on keeping easements highly productive and caring for pollinator plots properly.</i>	12,000.00	4,500.00	7,500.00							12,000.00	4,500.00	7,500.00
<i>University of Minnesota Bee Identification; \$7,500, \$2,500 each year for 3 years.</i>										-	-	-
Service Contracts- Equip/Tools/Supplies										-	-	-
<i>University of Minnesota monitoring equipment, data collection equipment, and equipment for vouchering specimens.</i>							2,357.16	2,357.16	-	2,357.16	2,357.16	-

<i>Landowner/ Practitioner tours and workshop \$4,500. (3 @\$1,500 per workshop/ tour.</i>							4,500.00	224.00	4,276.00	4,500.00	224.00	4,276.00
Travel expenses in Minnesota										-	-	-
<i>Travel to projects by Habitat Specialist for project design, procurement, and fulfillment; \$5,000. (100 projects @ 100 mile round trip @ \$0.50 per mile.</i>	1,500.00	555.91	944.09							1,500.00	555.91	944.09
<i>Travel to projects by graduate student and technician; \$15,000. (9,260 miles/year for 3 years @ \$0.55 per mile</i>							4,959.13	4,959.13	-	4,959.13	4,959.13	-
COLUMN TOTAL	64,125.00	52,885.44	11,239.56	461,338.00	433,949.99	27,388.01	206,537.00	202,261.00	4,276.00	732,000.00	689,096.43	42,903.57

Environment and Natural Resources Trust Fund

M.L. 2017 Parcel List

Project Title: Minnesota Bee and Beneficial Species Habitat Restoration
 Legal Citation: M.L. 2017, Chp. 96, Sec. 2, Subd. 08g
 Project Manager: Sabin Adams
 Organization: Pheasants Forever
 M.L. 2017 ENRTF Appropriation: \$732,000
 Project Length and Completion Date: 4 Years, June 30, 2021
 Date of Report: 8/12/2021



#	Acquisition or Restoration Parcel Name	Geographic Coordinates Format: [Deg.] [Min.] [Sec.] [Hemis.]		Estimated Cost	Estimated Annual PILT Liabilities	County	Site Significance	Activity Description	# of Acres	# of Shoreline Miles	Type of Landowner	Proposed Fee Title or Easement Holder	Status
		Latitude	Longitude										
1													
2	Doering Tract	45.0966	-94.6089	\$ 6,365	\$ -	Meeker	Prairie	Monarch Enhancement/ Grassland Enhancement	55	0	Private	USFWS	Completed
3	Jenson Tract	44.3752	-95.9366	\$ 3,114	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement	102.5	0	Private	BWSR	Completed
4	Byrne Tract	45.2990	-95.4831	\$ 3,006	\$ -	Swift	Prairie	Monarch Enhancement/ Grassland Enhancement	86	0	Private	BWSR	Completed
5	Lester Tract	46.3465	-94.8775	\$ 2,930	\$ -	Todd	Forest/ Prairie Transition	Monarch Enhancement/ Grassland Enhancement	17	0	Private	BWSR	Completed
6	MN WPA	43.5035	-95.3129	\$ 21,420	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement	50	0	USFWS	N/A	Completed
7	City of Detroit Lakes	46.8334	-95.8288	\$ 1,521	\$ -	Becker	Forest/ Prairie Transition	Monarch Enhancement/ Grassland Enhancement	1.8	0	City	N/A	Completed
8	Nicollet County	44.2712	-94.0318	\$ 2,100	\$ -	Nicollet	Prairie	Monarch Enhancement/ Grassland Enhancement	8	0	County	N/A	Completed
9	Burdick Tract	45.3058	-96.3786	\$ 18,382	\$ -	Big Stone	Prairie	Monarch Enhancement/ Grassland Enhancement	164.8	0	Private	USFWS	Completed
10	Jorde Tract	48.1687	-96.2604	\$ 2,295	\$ -	Pennington	Forest/ Prairie Transition	Monarch Enhancement/ Grassland Enhancement	5	0	Private	BWSR	Completed
11	Lindsley Tract	44.3693	-95.8440	\$ 9,800	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement	212.4	0	Private	BWSR	Completed
12	Kaiser Tract	45.1450	-96.2324	\$ 2,234	\$ -	Lac qui Parle	Prairie	Monarch Enhancement/ Grassland Enhancement	77.4	0	Private	USFWS	Completed
13	Gerde Tract	45.5061	-95.3487	\$ 11,906	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement	73.5	0	Private	USFWS	Completed
14	Burk Tract	45.6074	-95.2757	\$ 2,250	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement	5	0	Private	BWSR	Completed
15	Grannis Tract	44.8183	-93.0626	\$ 4,286	\$ -	Dakota	Metropolitan Urbanizing Area	Monarch Enhancement/ Grassland Enhancement	19.1	0	Private	Dakota County	Completed
16	Lake Minne Belle	45.0267	-94.5361	\$ 9,589	\$ -	Meeker	Prairie	Monarch Enhancement/ Grassland Enhancement	12.7	0	Private	BWSR	Completed
17	Anderson Tract	44.8933	-94.5053	\$ 5,415	\$ -	Meeker	Prairie	Monarch Enhancement/ Grassland Enhancement	4.8	0	Private	BWSR	Completed
18	RiverBluff Trust	44.9011	-94.5415	\$ 3,384	\$ -	Meeker	Prairie	Monarch Enhancement/ Grassland Enhancement	31.9	0	Private	BWSR	Completed
19	Schwendemann Tract	45.1816	-95.9679	\$ 10,424	\$ -	Swift	Prairie	Monarch Enhancement/ Grassland Enhancement	17	0	Private	BWSR	Completed
20	Louwagie Tract	44.5222	-95.7199	\$ 3,625	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement	8	0	Private	BWSR	Completed
21	O'Borsky Tract	45.3647	-95.1537	\$ 8,484	\$ -	Kandiyohi	Prairie	Monarch Enhancement/ Grassland Enhancement	86.3	0	Private	BWSR	Completed
22	Wieberdink Tract	45.0083	-95.1900	\$ 8,195	\$ -	Kandiyohi	Prairie	Monarch Enhancement/ Grassland Enhancement	5	0	Private	BWSR	Completed
23	Randt Tract	43.7451	-95.6070	\$ 4,959	\$ -	Kandiyohi	Prairie	Monarch Enhancement/ Grassland Enhancement	128	0	Private	BWSR	Completed
24	Perkins Tract	43.7462	-95.6045	\$ 12,808	\$ -	Nobels	Prairie	Monarch Enhancement/ Grassland Enhancement	47.3	0	Private	BWSR	Completed
25	Root River County Tract	43.9010	-92.3926	\$ 13,413	\$ -	Olmstead	South East Forest	Monarch Enhancement/ Grassland Enhancement	23	0	County	N/A	Completed
26	Pilegaard Tract	44.1517	-96.2073	\$ 20,400	\$ -	Pipestone	Prairie	Monarch Enhancement/ Grassland Enhancement	30	0	Private	BWSR	Completed
27	Ridgeway WPA	46.2207	-96.2206	\$ 44,322	\$ -	Otter Tail	Prairie	Monarch Enhancement/ Grassland Enhancement	107	0	WPA	N/A	Completed
28	Isanti County	45.4677	-93.0465	\$ 10,920	\$ -	Isanti	Metropolitan Urbanizing Area	Monarch Enhancement/ Grassland Enhancement	22	0	County	N/A	Completed
29	Garvin County Park	44.2704	-95.7350	\$ 2,425	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement		0	County	N/A	Declined
30	Clay County Flood Buyouts	46.7995	-96.7944	\$ 10,000	\$ -	Clay	Prairie	Monarch Enhancement/ Grassland Enhancement	8	0	County	N/A	Completed
31	Olson Tract	44.8891	-96.0396	\$ 32,315.00	\$ -	Lac Qui Parle	Prairie	Monarch Enhancement/ Grassland Enhancement	38	0	Private	USFWS	Completed
32	Sawatzky Tract	44.3528	-93.6166	\$ 23,000.00	\$ -	Le Sueur	Prairie	Monarch Enhancement/ Grassland Enhancement	43.74	0	Private	BWSR	Completed
33	Lyon County Park	44.2077	-96.0565	\$ 5,750.00	\$ -	Lyon	Prairie	Monarch Enhancement/ Grassland Enhancement	10.1	0	County	N/A	Completed
34	Christenson Tract	45.7417	-95.6503	\$ 3,507.50	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement	6.1	0	Private	MN Land Trust	Completed
35	Schwendemann Tract	44.9931	-96.2516	\$ 14,415.25	\$ -	Lac qui Parle	Prairie	Monarch Enhancement/ Grassland Enhancement	25.07	0	Private	BWSR	Completed
36	Quade Tract	44.9463	-94.5313	\$ 7,187.50	\$ -	Meeker	Prairie	Monarch Enhancement/ Grassland Enhancement	12.5	0	Private	USFWS	Completed
37	Ristau Tract	44.6983	-95.5928	\$ -	\$ -	Yellow Medicine	Prairie	Monarch Enhancement/ Grassland Enhancement		0	Private	BWSR	Declined
38	Toensing Tract	44.6939	-95.7098	\$ 2,875.00	\$ -	Yellow Medicine	Prairie	Monarch Enhancement/ Grassland Enhancement	5	0	Private	BWSR	Completed
39	Jensen Tract	45.7892	-95.5844	\$ 4,025.00	\$ -	Douglas	Prairie	Monarch Enhancement/ Grassland Enhancement	21	0	Private	BWSR	Completed
40	Bruns Tract	45.7517	-95.8587	\$ -	\$ -	Stevens	Prairie	Monarch Enhancement/ Grassland Enhancement		0	Private	BWSR	Declined
41	Noordmans WMA	45.6033	-95.7109	\$ -	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement		0	WMA	N/A	Declined
42	Walden WMA	45.5579	-95.6904	\$ -	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement		0	WMA	N/A	Declined
43	Enger Tract	44.6452	-95.3774	\$ 3,120.00	\$ -	Yellow Medicine	Prairie	Monarch Enhancement/ Grassland Enhancement	6.4	0	Private	BWSR	Completed
44	Brockway Tract	44.3655	-95.6559	\$ 1,692.00	\$ -	Redwood	Prairie	Monarch Enhancement/ Grassland Enhancement		0	Private	BWSR	Completed
45	Pembina WMA	47.9960	-95.4432	\$ -	\$ -	Pennington	Prairie	Monarch Enhancement/ Grassland Enhancement		0	WMA	N/A	Declined
46	GWL Farm Tract	44.3095	-95.4479	\$ 4,827.00	\$ -	Redwood	Prairie	Monarch Enhancement/ Grassland Enhancement	32.18	0	Private	BWSR	Completed
47	Kelly Tract	44.8597	-96.3063	\$ 4,680.00	\$ -	Lac qui Parle	Prairie	Monarch Enhancement/ Grassland Enhancement	8	0	Private	BWSR	Completed
48	Fujan Trust Tract	44.2613	-95.4432	\$ 5,343.00	\$ -	Redwood	Prairie	Monarch Enhancement/ Grassland Enhancement	13.7	0	Private	BWSR	Completed
49	Pederson Tract	44.8730	-95.6559	\$ -	\$ -	Yellow Medicine	Prairie	Monarch Enhancement/ Grassland Enhancement		0	Private	BWSR	Declined
50	Pelican Lake WMA	45.2037	-93.74796	\$ 20,000.00	\$ -	Wright	Prairie	Monarch Enhancement/ Grassland Enhancement	53	0	WMA	MN DNR	Completed
51	Lovell Lake WPA	45.7448	-94.6776	\$ 5,000.00	\$ -	Stearns	Prairie	Monarch Enhancement/ Grassland Enhancement	51	0	WPA	USFWS	Completed
52	Goose Lake WPA	45.2252	-94.18322	\$ 5,000.00	\$ -	Wright	Prairie	Monarch Enhancement/ Grassland Enhancement	53	0	WPA	USFWS	Completed
53	Quistorff WMA	45.8348	-95.098	\$ 5,000.00	\$ -	Todd	Prairie	Monarch Enhancement/ Grassland Enhancement		0	WMA	MN DNR	Declined
54	Ella Lake WPA	45.0985	-94.82881	\$ 1,500.00	\$ -	Kandiyohi	Prairie	Monarch Enhancement/ Grassland Enhancement		0	WPA	USFWS	Declined
55	Danielson Tract	45.7384	-95.6004	\$ 7,000.00	\$ -	Pope	Prairie	Monarch Enhancement/ Grassland Enhancement	100.4	0	Private	USFWS	Completed