

Final Abstract

Final Report Approved on October 15, 2025

M.L. 2020 Project Abstract

For the Period Ending June 30, 2025

Project Title: Tools For Supporting Healthy Ecosystems And Pollinators

Project Manager: Jessica Petersen

Affiliation: MN DNR - Ecological and Water Resources Division

Mailing Address: 500 Lafayette Rd

City/State/Zip: St Paul, MN 55155

Phone: (651) 259-5130

E-mail: jessica.d.petersen@state.mn.us

Website: <https://www.dnr.state.mn.us/ewr/index.html>

Funding Source:

Fiscal Year:

Legal Citation: M.L. 2021, First Special Session, Chp. 6, Art. 5, Sec. 2, Subd. 03n and M.L. 2024, Chp. Sec. 2, Subd. 18

Appropriation Amount: \$198,000

Amount Spent: \$198,000

Amount Remaining: -

Sound bite of Project Outcomes and Results

We added attributes related to pollinators and pollination into existing databases and developed a guide on the pollinators needed by native Minnesota plants and plant communities for reproduction. Data were incorporated into tools that can be used by managers and the public to select plants that support pollinators.

Overall Project Outcome and Results

Prior to this project, little information was compiled regarding the reliance of plants and plant communities on pollinators for reproduction. Without knowing what plants rely on pollinators for reproduction, we cannot know what communities might be most vulnerable to the decline of pollinators. We created a database of 20 biological attributes related to pollinators and pollination for over 2,200 plant species in Minnesota. These data were translated into a native plant community companion product called the Pollination Guide. This guide includes background information on pollinators and pollination with descriptions of the trait attributes included in the database such as plant longevity, clonality, reproductive compatibility, and attributes related to pollinators such as whether they require sonication to release pollen and the morphological flower structure. These attributes were compiled into a ranking system where each plant was ranked from 0-8, with zero being no reliance on pollinators to 8 being most reliant on pollinators for

reproduction. These pollination index rankings highlight those species, and plant communities that are most reliant on pollinators for reproduction and thus those that may be more vulnerable to the cascading effects of the loss of pollinators. This project builds a foundation upon which future research could be based.

We translated the attributes from the database into 11 different tools for various end users to build pollinator plantings to support some of the pollinators of conservation concern. Minnesotans are eager to support pollinators and with these tools now available on platforms such as the Plant Finder from Blue Thumb, people can select plants by incorporating information about which plants are larval hosts for specific pollinators. These tools will help managers and the public alike in choosing plants that directly support some of the most vulnerable pollinators.

Project Results Use and Dissemination

We met with experts at the Board of Water and Soil Resources, Metro Blooms Blue Thumb, Minnesota DNR managers and ecologists, Minnesota Wildflowers website, and more to incorporate the data we compiled into various tools and activities people undertake with planting native plants for pollinators to better support the most vulnerable specialist pollinators.



Environment and Natural Resources Trust Fund

M.L. 2020 Approved Final Report

General Information

Date: November 12, 2025

ID Number: 2020-064

Staff Lead: Mike Campana

Project Title: Tools For Supporting Healthy Ecosystems And Pollinators

Project Budget: \$198,000

Project Manager Information

Name: Jessica Petersen

Organization: MN DNR - Ecological and Water Resources Division

Office Telephone: (651) 259-5130

Email: jessica.d.petersen@state.mn.us

Web Address: <https://www.dnr.state.mn.us/ewr/index.html>

Project Reporting

Final Report Approved: October 15, 2025

Reporting Status: Project Completed

Date of Last Action: October 15, 2025

Project Completion: June 30, 2025

Legal Information

Legal Citation: M.L. 2021, First Special Session, Chp. 6, Art. 5, Sec. 2, Subd. 03n and M.L. 2024, Chp. Sec. 2, Subd. 18

Appropriation Language: \$198,000 the second year is from the trust fund to the commissioner of natural resources to create a pollination companion guide to the Department of Natural Resources' Field Guides to the Native Plant Communities of Minnesota for conservation practitioners to better integrate plant-pollinator interactions into natural resource planning and decision-making. and (a) The availability of the appropriations for the following projects is extended to June 30, 2025: (5) Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 3, paragraph (n), Tools for Supporting Healthy Ecosystems and Pollinators;

Appropriation End Date: June 30, 2025

Narrative

Project Summary: Create a pollination companion guide to MNDNR’s Field Guides to Native Plant Communities for conservation practitioners to better integrate plant-pollinator interactions into natural resource planning and decision-making.

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

In light of recent concern over pollinator declines, Minnesotans are eager to support pollinators. There is no off-the-shelf reference in Minnesota that provides information on the interdependent relationships between native plant species and pollinator communities.

Just like the Monarch butterfly needs milkweed to survive, many other pollinators need specific plants to complete their lifecycle. Similarly, many plants need specific pollinators to survive because without them the plants cannot reproduce. The details of the relationships between plants and pollinators are known only by a few subject matter experts, or the information is buried in the scientific literature and biological collections. Providing resources for Minnesotans about what plant species pollinators need to complete their lifecycle, and what plants need from pollinators to reproduce will allow conservation practitioners to make more informed decisions about how to protect pollinators and plant communities.

Existing efforts to protect, enhance, and restore pollinator habitat rely on ad hoc review of the literature and consulting experts. Information gaps in plant-pollinator interdependence result in challenges with decision-making across a variety of sectors including sourcing diverse seed for prairie restorations, understanding plant community fragility in the face of pollinator declines, and the ability of plant communities.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

The Field Guides to Native Plant Communities were established by the MNDNR and used widely in the conservation community as a standard for describing plant communities. These guides will form the foundation upon which we will build informational tools to support pollinators. The tools will provide insight into the degree to which plant communities may become fragile in the face of pollinator declines. Data will be compiled from the literature, plant specimens housed at the Bell Museum and other collections, and experts.

Through this project, the conservation community can better support both rare and declining pollinators and plant communities in Minnesota. By highlighting the plant and pollinator communities that may be vulnerable to loss of ecosystem function, we can focus conservation efforts of these fragile relationships more efficiently.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state’s natural resources?

The compiled data will be translated into two user-friendly tools:

1. A companion pollination handbook for the native plant community field guides (Pollination Field Guide). This resource is targeted at better understanding the plant community reliance on pollinators for reproduction.
2. A plant selection tool for building and enhancing more resilient restorations and native plant communities that support pollinators. This resource will allow practitioners to more efficiently conserve rare pollinator species by providing the plant resources they depend on to complete their lifecycle.

Project Location

What is the best scale for describing where your work will take place?

Statewide

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

During the Project and In the Future

Activities and Milestones

Activity 1: Pollinator and plant community tools and outreach

Activity Budget: \$198,000

Activity Description:

We propose to add pollinator and pollination related attributes to an existing Minnesota Department of Natural Resources plant database. These data will then be compiled into products that will help Minnesotans make more informed decisions about how best to support pollinators and build healthy plant communities. The pollination handbook and plant selection tool for restorations and enhancements will be rolled out via outreach events for practitioners.

Activity Milestones:

Description	Approximate Completion Date
Enhance the DNR's plant database to include with attributes related to pollinators and pollination	June 30, 2024
Produce the two tools described above for Minnesotans to better support pollinators and plant communities.	June 30, 2025
Develop and deploy outreach events to roll out the pollinator resources for end users.	June 30, 2025

Project Partners and Collaborators

Name	Organization	Role	Receiving Funds
Dr. Dan Cariveau	University of Minnesota	Advisory capacity to help guide the creation of the pollination database.	No

Dissemination

Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.

The resources created through this project will be included for use by practitioners and the public on the Minnesota DNR webpage. We will work with partners (e.g., TNC, BWSR, NRCS, USFWS, Bell Museum, and U of M Bee Lab) to disseminate products to a wide audience of potential users. We will work through existing channels (e.g., regional and statewide meetings) to roll out and disseminate the handbook and plant selection tool to conservation practitioners after the products are completed.

The Minnesota Environment and Natural Resources Trust Fund (ENRTF) will be acknowledged through use of the trust fund logo or attribution language on project print and electronic media, publications, signage, and other communications per the ENRTF Acknowledgement Guidelines.

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

This timeframe will produce a product that will stand alone. Ongoing improvements to the products and ongoing dissemination of the products will be achieved through standard DNR operating budgets and staffing.

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineligible	% Benefits	# FTE	Classified Staff?	\$ Amount	\$ Amount Spent	\$ Amount Remaining
Personnel										
Ecologist		Specialist dedicated to compiling data from multiple sources into a database and translating the results into pollinator products.			32%	1.2		\$117,390	-	-
Data manager		Assists with data management and incorporating new data into existing database structure			32%	0.08		\$5,500	-	-
Information outreach specialist		Assists with delivering outreach materials and updating website content			32%	0.1		\$14,000	-	-
Research Scientist 2 - Invertebrate Ecologist		Project lead devoted to maintaining ecological integrity of pollinator-related information. Responsible for developing and implementing a work plan including achievable outcomes and tracking and reporting on project progress.			32%	0.4		\$45,000	-	-
							Sub Total	\$181,890	\$181,890	-
Contracts and Services										
MNIT	Professional or Technical Service Contract	Data and web content application support.				0		-	-	-
							Sub Total	-	-	-
Equipment, Tools, and Supplies										
							Sub Total	-	-	-
Capital Expenditures										
							Sub Total	-	-	-

Acquisitions and Stewardship										
							Sub Total	-	-	-
Travel In Minnesota										
	Miles/ Meals/ Lodging	Travel	Travel in-state to libraries, herbaria, insect collections, meetings with subject matter experts and to deliver content.					-	-	-
							Sub Total	-	-	-
Travel Outside Minnesota										
							Sub Total	-	-	-
Printing and Publication										
							Sub Total	-	-	-
Other Expenses										
		Direct and necessary costs	Direct and necessary costs to cover HR support (\$4,138), Safety Support (\$749), Financial Support (\$2,137), Communication Support (\$1,388), IT Support (\$9,843), and Planning Support (\$1,138).	X				\$16,110	\$16,110	-
							Sub Total	\$16,110	\$16,110	-
							Grand Total	\$198,000	\$198,000	-

Classified Staff or Generally Ineligible Expenses

Category/Name	Subcategory or Type	Description	Justification Ineligible Expense or Classified Staff Request
Other Expenses		Direct and necessary costs	Direct and necessary costs reflect the amounts directly related to and necessary for accomplishing the project outcomes that would not exist but for the receipt of the appropriation.

Non ENRTF Funds

Category	Specific Source	Use	Status	\$ Amount	\$ Amount Spent	\$ Amount Remaining
State						
In-Kind	General Fund	For project supervision, subject matter expertise	Secured	\$12,000	\$12,000	-
In-Kind	Heritage Enhancement	For subject matter expertise	Secured	\$12,000	\$12,000	-
			State Sub Total	\$24,000	\$24,000	-
Non-State						
			Non State Sub Total	-	-	-
			Funds Total	\$24,000	\$24,000	-

Attachments

Required Attachments

Visual Component

File: [cc7428fc-eb8.pdf](#)

Alternate Text for Visual Component

Example of a table listing plants and attributes related to pollinators. Outcomes include a pie chart showing plant community dependence on pollinators and pollinators benefiting from host plants....

Supplemental Attachments

Capital Project Questionnaire, Budget Supplements, Support Letter, Photos, Media, Other

Title	File
Background check	144d2458-fe5.pdf
Bee Specialist Handout	a819ab05-357.pdf
Pollination Guide	40471f01-3ee.pdf

Media Links

Title	Link
Minnesota Pollinator Resources Tables	https://www.dnr.state.mn.us/pollinator_resources_tables/index.html
Specialist Bees	https://www.dnr.state.mn.us/pollinators/specialist.html
MNTaxa	https://www.dnr.state.mn.us/eco/mbs/plant-lists.html

Difference between Proposal and Work Plan

Describe changes from Proposal to Work Plan Stage

No major changes. Minor changes to improve clarity.

Additional Acknowledgements and Conditions:

The following are acknowledgements and conditions beyond those already included in the above workplan:

Do you understand and acknowledge the ENRTF repayment requirements if the use of capital equipment changes?

N/A

Do you understand that travel expenses are only approved if they follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

Yes, I understand the Commissioner's Plan applies.

Does your project have potential for royalties, copyrights, patents, sale of products and assets, or revenue generation?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

No

Does the organization have a fiscal agent for this project?

No

Work Plan Amendments

Amendment ID	Request Type	Changes made on the following pages	Explanation & justification for Amendment Request (word limit 75)	Date Submitted	Approved	Date of LCCMR Action
1	Amendment Request	<ul style="list-style-type: none"> • Budget • Activities and Milestones • Budget - Non-ENRTF Funds Contributed 	The estimated end dates for milestones 2-3 were accidentally not edited and extended when this workplan was originally transitioned from the proposal submitted and subsequently delayed by two years. We would like to request an extension of one year on two of the milestones.	March 31, 2023	Yes	April 13, 2023
2	Completion Date	<p>Previous Completion Date: 06/30/2024 New Completion Date: 06/30/2025; Governor Approved on 04/15/2024</p>	One of the tools promised in the project (the plant selection tool) could take a variety of formats. We are currently working with user groups to understand the most effective ways to deliver this tool for their use. The best deliverable within budget will require working with MN.IT and DNR Accessibility liaisons to develop an accessible online tool, which will take additional time beyond the current 2024 end date.	November 9, 2023	Yes	May 21, 2024
3	Amendment Request	<ul style="list-style-type: none"> • Other • Activities and Milestones 	We have updated completion dates, adding a year to each activity and milestone to reflect the approved year-long extension. There are no concerns with achieving these completion dates at this time.	July 23, 2024	Yes	August 13, 2024
4	Amendment Request	<ul style="list-style-type: none"> • Budget - Personnel • Budget - Professional / Technical Contracts • Budget - Travel and Conferences 	We are requesting to move \$5000 from travel because it has not been needed, to Contracts to cover MNIT support for webpage development. Similarly, we are requesting to move \$4500 from personnel (Data Management) to Contracts because some of the database management work actually needs to be performed by MNIT staff.	September 23, 2024	Yes	October 21, 2024

5	Amendment Request	<ul style="list-style-type: none"> • Budget • Budget - Personnel • Budget - Professional / Technical Contracts • Budget - Other • Budget - Non-ENRTF Funds Contributed 	<p>We are requesting an amendment to move \$9500 from MN.IT Contracts to Personnel. The original budget included funds under Services and Subawards for MN.IT to assist with data analysis. We ended up using project staff to accomplish this task.</p>	August 12, 2025	Yes	October 3, 2025
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Status Update Reporting

Final Status Update August 14, 2025

Date Submitted: August 12, 2025

Date Approved: October 3, 2025

Overall Update

We created a database of 20 attributes related to pollinators and pollination for over 2200 plant species in Minnesota. These data have been translated into a native plant community companion Pollination Field Guide, targeted at better understanding plant community reliance on pollinators for reproduction.

At least 11 plant selection tools and databases were updated or created using data collected during this project. These products are used by land and wildlife managers internally at the MN DNR, by partnering organizations, and everyday Minnesotans looking to enhance floral diversity in their neighborhoods.

Activity 1

This activity was previously marked complete.

(This activity marked as complete as of this status update)

Dissemination

We met with regional ecologists and regional wildlife groups to present the Pollination Field Guide and Plant Selection Tool created through this project. A specialist bee handout was produced to compliment the specialist bee webpages created and has been brought to at least 8 DNR outreach events and distributed to the public. We also created a report describing the overarching goals of the project, data collection process and outcomes.

The project is linked on the Mn Taxa website: <https://www.dnr.state.mn.us/eco/mbs/plant-lists.html>

This project helped to fund the Specialist Bee website: <https://www.dnr.state.mn.us/pollinators/specialist.html>

All of the tables for each Native Plant Community are included in this website:

https://www.dnr.state.mn.us/pollinator_resources_tables/index.html

Status Update Reporting

Status Update April 1, 2025

Date Submitted: March 27, 2025

Date Approved: May 7, 2025

Overall Update

We finished creating specialist bee websites for information about bees that need pollen from specific plants to complete their life cycle. These websites will help to inform Minnesotans about these bees, their conservation importance, and how to support them. We also completed our two products for this project, the pollination guide and the plant selection tool.

Activity 1

We have completed all milestones of this activity.

The Pollination Field Guide has gone live on the Minnesota Pollinator Resource Tables website and includes information about pollinators and pollination for each Native Plant Community. This site also includes general information about this project and its outcomes. https://www.dnr.state.mn.us/pollinator_resources_tables/index.html.

The Plant Selection Tool has taken several forms that suit a variety of end users, from wildlife managers to Minnesotans looking to enhance floral diversity in their neighborhoods. BWSR has worked to incorporate updated pollinator and pollination related attributes into the database they use to create State Seed Mixes <https://bwsr.state.mn.us/seed-mixes>. We added 20 pollinator and pollination related attributes collected through this project to the existing MNTaxa webpage. MNTaxa is used by the DNR and external entities to organize plant and vegetation databases and generate checklists for survey work, projects, and reports. <https://www.dnr.state.mn.us/eco/mbs/plant-lists.html>. We also created an easy-to-use Microsoft Access Database with reporting forms and have presented it to land managers. This tool helps managers create custom seed mixes in the Prairie Parkland Province to suit needs of their site
(This activity marked as complete as of this status update)

Dissemination

We have continued to add to a list of partners and collaborators that may benefit from the products we are creating. We met with the regional ecologists and regional wildlife groups to present the handbook and plant selection tools we created through this project.

We have created websites for 33 bees that require specific plants to complete their lifecycle. Each bee profile includes information about what plant species each species uses, if possible, how to identify the bee, similar look-a-likes, what type of nesting material the species uses, their conservation status, a map of their distribution, and photos. <https://www.dnr.state.mn.us/pollinators/specialist.html>.

Status Update Reporting

Status Update October 1, 2024

Date Submitted: October 19, 2024

Date Approved: October 21, 2024

Overall Update

Because this workplan update covers the field season, DNR staff were primarily involved with field work and this project was paused until the fall when office work picks up. We were still able to move some aspects of the project along with the help of some staff that work on website development. We completed work on the DNR plant databased including attributes related to pollinators and pollination. We also finished drafting websites for information about bees that need pollen from specific plants to complete their life cycle. These websites will help to inform Minnesotans about these specialist bees, their conservation importance and how to support them.

Activity 1

We completed the first milestone of this activity. The DNR plant database now includes attributes related to pollinators and pollination. We have a final draft of the Pollination Field Guide that will go on the website soon. The Minnesota Pollinator Resource Tables website has updated tables that now include information about pollinators and pollination for each Native Plant Community. https://www.dnr.state.mn.us/pollinator_resources_tables/index.html

The plant selection tool format will take several different forms that suit a variety of end users, from wildlife managers to Minnesotans wanting to enhance their floral diversity in their neighborhoods. Metro blooms has already included the data we generated into their "Plant Finder" tool. <https://bluethumb.org/plantfinder/>. This is especially impactful given that this resource is used by recipients of the Lawns to Legumes grants. In the next six months, we plan to include the data collected through this project into the MNTaxa webpage. Lastly, we will create an easy to use Access Database with reporting forms to deliver to land managers.

Dissemination

We have created draft websites for approximately 35 bee specialists that require specific plants to complete their lifecycle. We are currently working with the IT department to get this information onto DNR webpages. Each bee profile includes information about what plant species each species uses, how to identify the bee if possible, similar look-a-likes, what type of nesting material the species uses, their conservation status, a map of their distribution and photos where possible.

Status Update Reporting

Status Update April 1, 2024

Date Submitted: April 1, 2024

Date Approved: July 17, 2024

Overall Update

We are making progress towards our two products for this project, the pollination guide and the plant selection tool. Both products will be completed prior to the end of the project.

Activity 1

We have a working draft of the Pollination Field Guide that has been reviewed by MBS staff and regional ecologists. After several rounds of reviews, we are confident that we can produce a final draft of the guide by June. We are also working on various ways to distribute information about selecting plants for pollinators. We have developed content for DNR webpages that will form the basis for a plant selection tool. We delivered data to Metro Blooms to update their plant selection tool to include aspects of specialist pollinators. We delivered data to Great River Greening and the US Fish and Wildlife Service for various databases these organizations maintain.

Dissemination

We met with the regional ecologists to describe the various ways that we are rolling out the pollination data we collected.

Status Update Reporting

Status Update October 1, 2023

Date Submitted: November 2, 2023

Date Approved: November 7, 2023

Overall Update

We have completed the database creation portion of this project having added as much data as possible related to plant attributes and pollinators. We worked with the plant biometrician to develop a numerical index that ranks each plant species for its relative reliance dependency on pollinators for seed production. We are now working on rolling this index up to the Native Plant Community scale to look at plant community dependence on pollinators.

Activity 1

We have completed the first milestone of this activity. We have made progress towards the goal of creating a companion pollination handbook for the native plant community field guides. We are using the pollination vulnerability index to create a Native Plant Community weighted index that will tell us how vulnerable each plant community is to the potential loss of pollinators. We continue to document and edit the methods used to derive this index that will become a section in the Pollination Field Guide. We drafted a few pages of the Pollination Field Guide for various partners to review before continuing to write the remaining plant community pages. Each community page will list the plants that are the most vulnerable (highest index value) to the loss of pollinators, the dominant plants and their respective index values, and some of the pollinators that depend on the plant community.

We reached out to various partners that have existing plant selection tools to explore interest and capacity to include attributes of this pollination database in their tools. We are also exploring internal DNR tools as options to roll out the plant selection tool.

Dissemination

We have continued to add to a list of partners and collaborators that may benefit from the products we are creating.

Status Update Reporting

Status Update April 1, 2023

Date Submitted: March 31, 2023

Date Approved: April 13, 2023

Overall Update

We are nearing completion of adding plant attributes related to pollination and pollinators to an existing MNDNR database. We have completed databasing seven plant attributes for over 2000 plant species. These plant attributes are all related to how dependent each species is on pollinators for reproduction, including: compatibility, annual vs. perennial, clonality, flower shape, corolla length, wind vs. animal pollinated, and how restricted or general are the pollinator visitors themselves. MBS plant ecologists reviewed the plant database for accuracy. The remaining attributes related to pollinators, such as nectar availability, pollinator hosts of specialists, and stem nest value are on track for completion before the next update. We have begun to reach out to partners that may be interested in using these data for their existing plant selection tools.

Activity 1

We have made a great deal of progress on the first milestone and we are on track for completion soon. We have made progress towards the goal of creating a companion pollination handbook for the native plant community field guides. We drafted a pollination vulnerability index value for more than 2000 plant species in Minnesota. We also drafted the methods used to derive this index that will become a section in the Pollination Field Guide.

Dissemination

We drafted a list of collaborators to reach out to following the completion of the database. This list will be used to approach partners about how these tools can be implemented in their work.

Status Update Reporting

Status Update October 1, 2022

Date Submitted: September 27, 2022

Date Approved: October 14, 2022

Overall Update

We have developed a database that links plants and pollinators found in Minnesota. We have begun to populate the database with specific attributes of plants in relationship to pollination. The data within will be used to develop the products outlined in the project proposal. Likewise, we have developed a draft list of the bees and butterflies of Minnesota that require certain plants as hosts.

Activity 1

We have begun work on the first milestone of this activity by adding plant attributes such as breeding system, life span, and floral structure to an existing plant database. Likewise, we have added specific pollinator species information to this same database that relates those specialist bees and butterflies that require specific hosts to the respective plant taxa. We are working to populate this database through literature searches and other online data sources such as the Plant Trait Database (TRY). This work has only just begun in September, and thus we have just begun to enter information into these new attributes in the database, but we have no concerns at this time about the progress we have thus far made.

Dissemination

Work has not yet begun on the dissemination aspect of this project. We are on track with the dissemination which will primarily occur towards the end of the project.

Status Update Reporting

Status Update April 1, 2022

Date Submitted: May 11, 2022

Date Approved: June 7, 2022

Overall Update

Work has not begun on this project. We have been a bit delayed in starting due to the uncertainty of the funding for so long, coupled with a DNR hiring freeze and then a backlog of hires causing delays in hiring even further. We have hired an Ecologist to help with populating the database. That work will begin in the fall. We have no concerns at this time about meeting the project objectives during the course of the grant period.

Activity 1

Work has not begun on this activity. We hired an Ecologist that will begin work on this project starting in the fall.

Dissemination

This work has not begun.