



Environment and Natural Resources Trust Fund

M.L. 2024 Approved Work Plan

General Information

ID Number: 2024-168

Staff Lead: Mike Campana

Date this document submitted to LCCMR: June 7, 2024

Project Title: Season Watch: Cultivating Young Naturalists with Phenology Education

Project Budget: \$180,000

Project Manager Information

Name: Sarah Bignall

Organization: Northern Community Radio, Inc.

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Web Address: <https://www.kaxe.org/#stream/0>

Project Reporting

Date Work Plan Approved by LCCMR: June 20, 2024

Reporting Schedule: June 1 / December 1 of each year.

Project Completion: June 30, 2026

Final Report Due Date: August 14, 2026

Legal Information

Legal Citation: M.L. 2024, Chp. 83, Sec. 2, Subd. 05o

Appropriation Language: \$180,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Northern Community Radio, Inc. to continue to build the next generation of Minnesota conservationists by delivering engaging environmental programming to northern Minnesota through radio and podcasts, hosting phenology training and interactive nature events for K-12 students, and expanding KAXE coverage of environmental topics to a digital audience.

Appropriation End Date: June 30, 2027

Narrative

Project Summary: This education project will continue building the next generation of conservationists in Minnesota by engaging youths and adults in science and outdoor learning through radio, podcasts, newsletters and schoolyard exploration.

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

John Latimer has hosted the Phenology Show on KAXE for nearly four decades. KAXE is a public radio station in Grand Rapids, MN. Latimer's work has inspired thousands to observe and share nature in their backyards and woodlots. Children who grew up listening on the school bus have gone on to get PhDs in the sciences.

Latimer shares his phenology data and recent findings on the weekly Phenology Report broadcast on radio, mobile devices and podcasts. The Phenology programming includes Minnesota school children and listeners sharing observations on the radio each week. These reports encompass a wide range of observations like bobcat tracks, downy woodpeckers, and even the giant snowdrift covering a classroom window that was cleared away by a hero-custodian. These personal, often funny and touching stories about nature provide a connection to nature that is powerful. This deep connection fosters pro-environmental and conservation behavior.

Latimer's phenology legacy and our work with "Engaging Minnesotans with Phenology" has succeeded in reaching students throughout the school year. Our next phase of the project aims to reach K-12 students and listeners during summer recreation. We believe it can further foster solid relationships to the land and water of Minnesota for future generations.

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.

Our opportunity is to foster curiosity of natural resources in young people which could lead to change in the future. Studying seasonal changes in Minnesota's nature and comparing them to historical records is an immediate understanding of how climate is changing. This act of comparing nature year to year is critical to future generations taking action and protecting natural ecosystems for a healthier future. It has the potential to lead to innovation in sustainability, carbon emissions and energy conservation to combat climate change.

KAXE's phenology programming has already shown success in fostering appreciation, understanding, and investment in Minnesota's natural resources. Currently, 80% of our partnerships are with K-12 schools during the school year. Summer is no doubt the most popular time for Minnesotans to engage and enjoy the outdoors! KAXE will:

- Expand radio programming and podcasts that inspire listeners to engage with the outdoors and share their experiences
- Grow current partnership programs between KAXE and K-12 schools to include Environmental Learning Centers, Summer Camps, State and Local Parks, and other locations that engage K-12 students during the summer months
- Spotlight journalism and conversations on KAXE of environmental topics like water quality, sustainable lifestyles, energy, and nature conservation.

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?

- Create environmental programming for Northern Minnesota by broadcasting captivating content on radio and podcasts.
- Expand the reach of the phenology training program aimed at school children across the state by integrating phenology observation with radio broadcasting reaching students outside in the summer months.

- Broaden the scope of KAXE's newsroom reporting on environmental subjects such as water quality, sustainable living, energy, and conservation of nature, while also expanding a newsletter centered around nature-based topics.

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: Deliver engaging environmental programming to Northern Minnesota through radio and podcasts

Activity Budget: \$66,397

Activity Description:

We will increase the frequency of our Season Watch podcast and continue to focus on natural experiences in daily commutes, walks in town or in forests, and time spent on the water. We will continue our current programs including monthly interviews with environmental scientists, and podcasts related to the seasons of the year. These radio programs and podcasts will educate and engage people in northern MN — and throughout the state — about environmental science and its relationship to observable nature. Radio segments and podcasts about statewide phenology will be made available to other public radio stations in Minnesota via the public media exchange.

Activity Milestones:

| Description | Approximate Completion Date |
|---|-----------------------------|
| 24 radio segments that present interviews with scientists (approx 12 segments/year) | June 30, 2026 |
| 90 weekly 'Season Watch' podcast (45 episodes/year) | June 30, 2026 |
| 8 seasonal 'Season Watch' podcasts (spring, summer, fall, winter each year) | June 30, 2026 |

Activity 2: Host phenology training events and interactive nature events

Activity Budget: \$75,411

Activity Description:

Host training sessions targeted towards Environmental Learning Centers (ELCs), Summer Camps, State and Local Parks, and other locations that engage K-12 students during the summer months, as well as continuing our trainings with educators and classroom volunteers. We would provide training for our phenology and radio curriculum twice per year (4 workshops) rotating the location around the state and provide follow-up sessions for enhanced training twice per year (4 sessions). Follow up sessions will be open to all prior trainees. The curriculum involves basic phenology observations combined with developing short school phenology reports for radio broadcasts. We will offer a helpline, assist with the setup and identification of species along phenology trails, and provide 1:1 follow-up meetings to ensure strong support of implementation. In addition, we will host quarterly interactive live discussions with KAXE news team on topics like water quality, sustainable lifestyles, energy, and nature conservation. Currently we average 5-12 student reports per week during the school year and 1-2 per week during the summer. We are looking to increase reports over the summer to 4-6 per week.

Activity Milestones:

| Description | Approximate Completion Date |
|--|-----------------------------|
| 8 workshops/follow-up sessions (4 workshops per year) | June 30, 2026 |
| 360 radio segments created by kids in the phenology programs (approximately 160 radio segments/year) | June 30, 2026 |
| 8 Interactive discussions (4/year) | June 30, 2026 |

Activity 3: Expand KAXE's coverage of environmental topics to a digital audience

Activity Budget: \$38,192

Activity Description:

KAXE's newsroom is broadening its environmental reporting on important topics like water quality, sustainable living, energy, and conservation of nature, all of which are crucial for the future health of our state. In addition to enhancing reporting, KAXE is also increasing the focus on the successful nature-based newsletter, Season Watch. In this expanded newsletter, subscribers can expect regular updates and in-depth articles on everything from wildlife conservation to climate change to recommendations on what to look for in our daily lives. By expanding the scope while maintaining its personal, local feel, KAXE is positioning itself as a leading voice to educate and inspire sustainability in Minnesota.

Activity Milestones:

| Description | Approximate Completion Date |
|---|-----------------------------|
| 24 news stories on environmental topics (12 stories/year) | June 30, 2026 |
| 90 Season Watch Newsletter Issues (45/year) | June 30, 2026 |

Project Partners and Collaborators

| Name | Organization | Role | Receiving Funds |
|--------------------|-------------------------------|--|-----------------|
| Stephan Carlson | University of Minnesota | Stephan Carlson is an Adjunct Professor at the U of MN who will advise us on trainings for this project. | No |
| Rebecca Montgomery | University of Minnesota | Rebecca will collaborate on phenology efforts throughout the state for U of MN staff | No |
| Dave McMillan | Long Lake Conservation Center | Dave McMillan will help to advise us on meeting targeted groups (e.g. summer camps and other state wide ELC) | 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 ENRTF logo will be located on the footer of our website (kaxe.org) and links to the LCCMR webpage. Acknowledgement of the grant will be read during phenology segments live on-air and in podcasts. Acknowledgement will be made at the teacher training. There will also be an acknowledgement block added to the phenology podcast page and phenology articles. The logo and credit will be prominently added to the Season Watch Newsletter. Segments and podcasts will be included in the Season Watch Newsletter, shared on social media and posted on kaxe.org.

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?

Long term: Radio broadcasts, podcasts, reporting and newsletters will be available through KAXE website. We will work to make this program self-sufficient through sponsored ads on the newsletter, individual donations and additional grant funding.

Other ENRTF Appropriations Awarded in the Last Six Years

| Name | Appropriation | Amount Awarded |
|---|---|----------------|
| Engaging Minnesotans With Phenology: Radio, Podcasts, Citizen Science | M.L. 2021, First Special Session, Chp. 6, Art. 5, Sec. 2, Subd. 05h | \$198,000 |

Budget Summary

| Category / Name | Subcategory or Type | Description | Purpose | Gen. Ineligible | % Benefits | # FTE | Classified Staff? | \$ Amount |
|---------------------------------------|---------------------|--|---------|-----------------|------------|-------|-------------------|------------------|
| Personnel | | | | | | | | |
| Production supervisor - Radio | | Work with producer to train, coordinate, and assist with all aspects of radio production | | | 29% | 0.18 | | \$16,716 |
| Administration | | Coordinate and administer the grant to be sure outcomes are achieved, bills are paid, reporting is accomplished | | | 33% | 0.1 | | \$7,968 |
| Phenologist | | Host weekly phenology show, conduct teacher trainings and follow-ups and classroom visits | | | 0% | 0.42 | | \$20,790 |
| Producer | | Produce 24 statewide phenology episodes, weekly 'season watch' podcast and newsletter. Identify and set up interviews, enter data and produce segments from schools, produce web stories | | | 30% | 1.52 | | \$100,670 |
| Production Supervisor - Digital | | Work with producer to train, coordinate, and assist with all aspects of digital content | | | 28% | 0.04 | | \$3,560 |
| Digital Producer | | Distribute and promote nature content on social media and other digital media | | | 30% | 0.18 | | \$12,196 |
| Reporter | | will produce 24 stories on environmental topics and host interactive discussions | | | 28% | 0.04 | | \$12,100 |
| | | | | | | | Sub Total | \$174,000 |
| Contracts and Services | | | | | | | | |
| | | | | | | | Sub Total | - |
| Equipment, Tools, and Supplies | | | | | | | | |
| | | | | | | | Sub Total | - |
| Capital Expenditures | | | | | | | | |
| | | | | | | | Sub Total | - |

| | | | | | | | | |
|-------------------------------------|-----------------------|--|---|--|--|--|--------------------|-----------|
| Acquisitions and Stewardship | | | | | | | | |
| | | | | | | | Sub Total | - |
| Travel In Minnesota | | | | | | | | |
| | Miles/ Meals/ Lodging | 8 training sessions @ 375 miles/session, 2 person @ .655/mile; per commissioner's plan for lodging, 8 sessions, 1 person @ \$94/night; per commissioner's plan for food, 8 sessions, 1 person @ \$46/day | teacher training and teacher follow-up training | | | | | \$6,000 |
| | | | | | | | Sub Total | \$6,000 |
| Travel Outside Minnesota | | | | | | | | |
| | | | | | | | Sub Total | - |
| Printing and Publication | | | | | | | | |
| | | | | | | | Sub Total | - |
| Other Expenses | | | | | | | | |
| | | | | | | | Sub Total | - |
| | | | | | | | Grand Total | \$180,000 |

Classified Staff or Generally Ineligible Expenses

| Category/Name | Subcategory or Type | Description | Justification Ineligible Expense or Classified Staff Request |
|---------------|---------------------|-------------|--|
|---------------|---------------------|-------------|--|

Non ENRTF Funds

| Category | Specific Source | Use | Status | \$ Amount |
|------------------|-----------------|-----|----------------------------|-----------|
| State | | | | |
| | | | State Sub Total | - |
| Non-State | | | | |
| | | | Non State Sub Total | - |
| | | | Funds Total | - |

Attachments

Required Attachments

Visual Component

File: [698c35e4-819.pdf](#)

Alternate Text for Visual Component

Handout contains an overview of the Season Watch project and testimonials. Also includes pictures Phenologist John Latimer leading nature hikes and pics from phenology in the school students outdoors and exploring nature!...

Financial Capacity

File: [9eccc0e6-48f.pdf](#)

Board Resolution or Letter

| Title | File |
|--|----------------------------------|
| Northern Community Radio BOD Approval Letter | 648116cd-dee.pdf |

Supplemental Attachments

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

| Title | File |
|---|----------------------------------|
| Testimonial KAXE Phenology in Classroom and Student Reports | 173a84cc-c73.pdf |

Difference between Proposal and Work Plan

Describe changes from Proposal to Work Plan Stage

Made changes to the workplan including specifying target of training sessions, clarified long-term funding plans, and number of class rooms engaged with on a weekly basis.

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 agree travel expenses must 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 agree to the Commissioner's Plan.

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

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing \$10,000 or more or large-scale stream or wetland restoration?

No

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care, treatment, education, training, instruction, or recreation to children")?

Yes

Do you certify that background checks are performed for background check crimes, as defined in Minnesota Statutes, section 299C.61, Subd. 2, on all employees, contractors, and volunteers who have or may have access to a child to whom children's services are provided by your organization?

Yes