Environment and Natural Resources Trust Fund 2019 Request for Proposals (RFP)

Project Title:	ENRTF ID: 015-A
Minnesotas Imperiled Bats - Protecting the Survivors	
Category: A. Foundational Natural Resource Data and Information	
Sub-Category:	
Total Project Budget: \$ 208,331	
Proposed Project Time Period for the Funding Requested: <u>June 30,</u>	2021 (2 yrs)
Summary:	
Winter and summer roost sites, supporting bat species that have been imp be inventoried and evaluated for their importance to bats surviving WNS.	acted by White-nose Syndrome, will
-	
Name: Gerda Nordquist	
Sponsoring Organization: MN DNR	
Title: MBS Animal Survey Supervisor	
Department: Ecological and Water Resources	
•	
Address: 500 Lafayette Road, Box 25 St. Paul MN 5515-4025	
Telephone Number: (651) 259-5124	
Email _gerda.nordquist@state.mn.us	
Web Address	
Location Region: Statewide	
-	
County Name: Statewide	
City / Township:	
Alternate Text for Visual:	
Project title, objectives, photos: evaluate critical hibernation roosts, identify artificial), engage the public, respond to bat reports. Minnesota's bats need	•
Funding Priorities Multiple Benefits Outcomes	Knowledge Base
Extent of Impact Innovation Scientific/Tech Basis	Urgency
Capacity Readiness Leverage	TOTAL%
If under \$200,000, waive presentation?	

Page 1 of 6 05/06/2018 ENRTF ID: 015-A



Environment and Natural Resources Trust Fund (ENRTF) 2019 Main Proposal

PROJECT TITLE: Minnesota's Imperiled Bats – Protecting the Survivors

I. PROJECT STATEMENT

Minnesota's hibernating bats are fighting for their survival. During winter 2017-2018, bat declines of 70% and 90% were documented in two of our most important hibernacula. Our bats are succumbing to the effects of White-nose Syndrome (WNS) – a devastating disease responsible for the deaths of millions of bats in eastern North America.

Despite intensive efforts to develop a cure for this disease, no treatment has been shown effective in preventing infection by WNS. However, limited evidence suggests that some bats can survive the disease. We can help them by protecting critical habitats, both summer and winter roosts.

Bats are infected at their winter roosts. Survival over the critical winter period depends on protecting bats from unnecessary disturbance. Many winter roosts have not been surveyed in over 30 years. We propose to inventory known hibernacula and identify sites that should be protected or are suitable for employing promising treatments against WNS.

Summer roosts provide winter survivors a chance to recover from the effects of WNS. Locating and protecting important summer bat roosts, especially those used by pregnant females, will support a new generation of bats -- perhaps some resistant to the effects of WNS. Most summer roosts are unknown or have not been evaluated for bat occupancy. We propose to inventory artificial roosts, beginning with those on public lands, and to revisit natural roost sites identified by the Minnesota Biological Survey and those located through ENTRF ML2015. *Endangered Bats, White-nose Syndrome, and Forest Habitat* study.

Minnesotans care about bats and are eager to help. More than 3,000 citizens attended the first Minnesota Bat Festival in August 2017. Citizens continue to provide important information on sick bats and bat colonies to the DNR's Bat Observation Report. We propose to develop outreach and educational opportunities where the public can participate in bat conservation activities.

II. PROJECT ACTIVITIES AND OUTCOMES [Total request \$208,331 for 2 years]

Activity 1: Evaluate winter hibernation roosts for WNS-impacted bats

Survey bat use of known hibernacula/winter roosts and prioritize sites for protection and/or for application of promising treatments against WNS.

ENRTF BUDGET: \$77,124

Outcome	Completion Date
1. Conduct winter assessments of bats in hibernacula	April 2021
2. Develop, implement monitoring of important sites	Ongoing
3. Compile and enter information	June 2021
4. Work with land owners/managers to protect bats during winter	June 2021

1



Environment and Natural Resources Trust Fund (ENRTF) 2019 Main Proposal

Activity 2: Identify and evaluate summer bat roosts

Identify and evaluate bat use of natural and artificial summer roosts.

ENRTF BUDGET: \$89,692

Outcome	Completion Date
1. Identify, compile and evaluate artificial bat roosts.	June 2021
2. Revisit and evaluate known natural roosts	June 2021
3. Compile and enter information	June 2021
4. Collaborate with land owners/manager to annually monitor roost occupancy	June 2021

Activity 3: Outreach and education about WNS and Minnesota's bats ENRTF BUDGET: \$41,515

Outcome	Completion Date
1. Maintain and enhance MNDNR WNS website	June 2021
2. Respond to public reports of sick bats and bat colonies	June 2021
3. Provide presentations and outreach events about bats and WNS	June 2021

III. PROJECT PARTNERS:

A. Partners receiving ENRTF funding

Name	Title	Affiliation	Role

B. Partners NOT receiving ENRTF funding

Name	Title	Affiliation	Role

IV. LONG-TERM- IMPLEMENTATION AND FUNDING:

The results of this project can stand alone as an updated inventory and assessment of seasonal bat roost sites. The inventory can also serve as a post-WNS baseline for long-term monitoring of bat population recovery and the effectiveness of protection efforts and treatment trials.

V. TIME LINE REQUIREMENTS:

The project intends to complete assessments of important seasonal roost sites by the end of the 2-year timeframe. By the end of the grant period, we anticipate having roost count estimates for the most important locations, comparison with past counts, and recommendations for future monitoring of these sites.

VI. SEE ADDITIONAL PROPOSAL COMPONENTS:

- A. Proposal Budget Spreadsheet
- **B. Visual Component or Map**
- C. Parcel List Spreadsheet N/A
- D. Acquisition, Easements, and Restoration Requirements N/A
- E. Research Addendum (not required at proposal stage) N/A
- F. Project Manager Qualifications and Organization Description
- G. Letter or Resolution N/A
- H. Certified Audit or 990 Tax Information N/A

2

2019 Proposal Budget Spreadsheet

Project Title: Minnesota's Imperiled Bats -- Protecting the Survivors

IV. TOTAL ENRTF REQUEST BUDGET -- 2 years

BUDGET ITEM	AMOUNT
Personnel:	\$ 122,878
Bats Specialists (2) - 0.4 FTE each for 2 years (74% salaries/26% benefits)	
Zoology Data Manager - 0.15 FTE for 2 years (77% salaries/23% benefits)	
Graphics/Web Design Specialist - 0.05 FTE for 2 years (67% salaries/32% benefits)	
Professional/Technical/Service Contracts:	\$ -
Equipment/Tools/Supplies:	\$ 20,000
Equipment and supplies: hibernacula and summer roost assessment	
Equipment and supplies: bat netting and banding	
Equipment and supplies: acoustic surveillance and analysis	
Equipment and supplies: WNS protection and decontamination	
Equipment and supplies: preparation of educational materials	
Acquisition (Fee Title or Permanent Easements):	N/A
Travel:	\$ 50,000
Mileage and seasonal lease of MNDNR vehicles (estimate 10,000 miles)	
Lodging (estimate 80 motel-nights)	
Meals while in travel status (estimate 100 days)	
Additional Budget Items:	\$ 15,453
MNDNR Direct and Necessary Costs (\$15,453) pay for activities that are directly related to and	
necessary for accomplishing appropriated programs/projects. Direct and necessary costs cover HR	
support (~\$3,073), Safety Support (~\$637), Financial Support (~\$2,473), Communication Support	
(~\$1,251), IT Support (~\$6,960), and Planning Support (~\$1,059).	
TOTAL ENVIRONMENT AND NATURAL RESOURCES TRUST FUND \$ REQUEST =	\$ 208,331

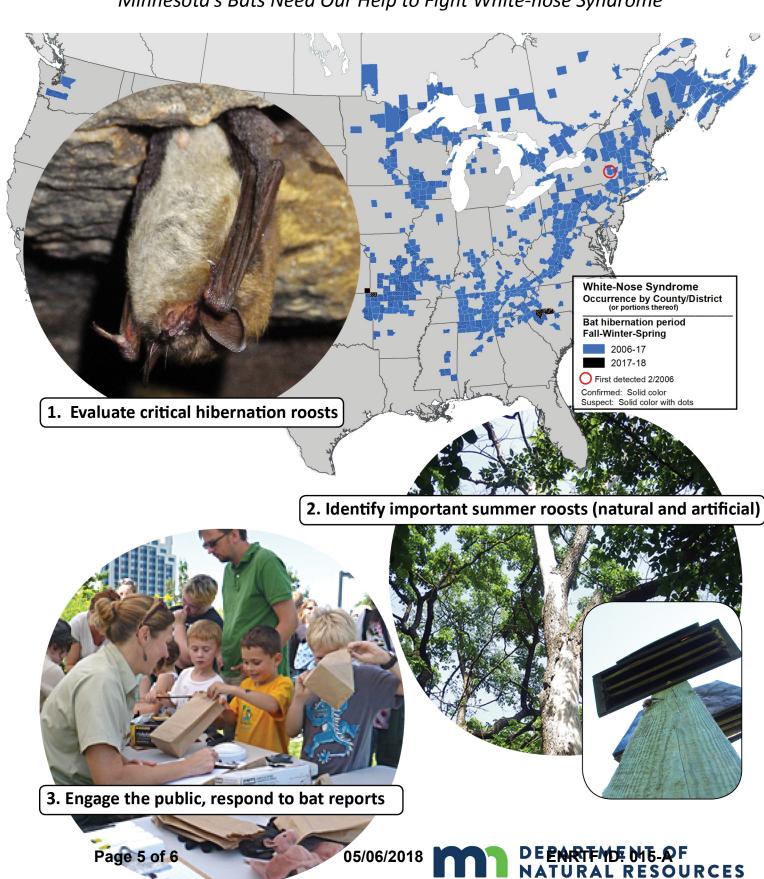
V. OTHER FUNDS (This entire section must be filled out. Do not delete rows. Indicate "N/A" if row is not applicable.)

SOURCE OF FUNDS		<u>AMOUNT</u>		<u>Status</u>	
Other Non-State \$ To Be Applied To Project During Project Period:	USFWS	\$	20,000	pending	
Aid to States WNS Grant (will apply for)					
Other State \$ To Be Applied To Project During Project Period:	Project	\$	40,000	secured	
Manager salary and expenses	Field survey and				
interpretive assistance by MNDNR State Park Staff (salaries, equipment)					
In-kind Services To Be Applied To Project During Project Period:			N/A		
Past and Current ENRTF Appropriation:			N/A		
Other Funding History:			N/A		

Page 4 of 6 05/06/2018 ENRTF ID: 015-A

PROJECT TITLE: Minnesota's Imperiled Bats - Protecting the Survivors

Minnesota's Bats Need Our Help to Fight White-nose Syndrome



F. Project Manager Qualification and Organization Description

Project Manager: Gerda Nordquist, Animal Survey Supervisor

Affiliation: Department of Natural Resources, Minnesota Biological Survey

Mailing Address: 500 Lafayette Road, Box 25, St. Paul, MN 55155-4025

Work Phone: 651-259-5124

Email: gerda.nordquist@state.mn.us

Qualifications:

Gerda Nordquist has supervised animal surveys for the DNR's Minnesota Biological Survey since 1990 and has overseen the wild bee surveys since the beginning in 2013. The past and proposed bee surveys are the first statewide surveys to document bee species and their associated habitats in Minnesota. In her capacity as the Animal Survey Supervisor for the Minnesota Biological Survey, she has demonstrated her ability to manage budgets, direct staff, coordinate with partners and prepare project work plans, updates and final reports.

Project Responsibilities:

Gerda Nordquist will provide overall project direction.

Organization Description:

The Minnesota Biological Survey collects, interprets and provides biological data on native plants, native animals, native plant communities, and landscapes. The Minnesota Department of Natural Resources works with citizens to conserve and manage the state's natural resources, to provide outdoor recreation opportunities, and to provide for commercial uses of natural resources in a way that creates a sustainable quality of life.