# Bats for the Future Fund 2018 Grant Slate

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#### PARTNERS

- Avangrid Foundation
- Southern Company
- U.S. Fish and Wildlife Service
- U.S. Forest Service

#### **ABOUT NFWF**

The National Fish and Wildlife Foundation (NFWF) protects and restores our nation's fish and wildlife and their habitats. Created by Congress in 1984, NFWF directs public conservation dollars to the most pressing environmental needs and matches those investments with private funds. Learn more at www.nfwf.org

#### NATIONAL HEADQUARTERS

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Little brown bat with white-nose syndrome Credit: Jonathan Mays, Maine Department of Inland Fisheries and Wildlife

# OVERVIEW

The National Fish and Wildlife Foundation (NFWF), in partnership with the Avangrid Foundation, Southern Company, the U.S. Fish and Wildlife Service, and U.S. Forest Service, announced the 2018 round of funding for the Bats for the Future Fund. Four grants totaling \$1.1 million were awarded to prevent and slow the spread of white-nose syndrome (WNS), advance management tools and treatments to minimize WNS, promote the survival and recovery of WNS-affected bats, and support innovative research leading to lasting management solutions. The four awards generated more than \$900,000 in match from the grantees, providing a total conservation impact of \$2 million.

Unfortunately, more than 6 million bats have died over the past decade from WNS. In some sites where WNS has been detected, up to 100 percent of bats have been killed. Since signs of the disease were first observed in New York in 2006, WNS has spread rapidly from the Northeast to the Midwest and eastern and southeastern Canada, with cases confirmed in 33 U.S. states and seven Canadian provinces to date.

The Bats for the Future Fund focuses on existing and novel disease treatments and management strategies urgently needed to stem the impacts of WNS at the leading edge of the disease, areas with a mosaic of contaminated and uncontaminated sites on the front line of the fungus' invasion. This includes areas where WNS is currently causing the greatest bat population declines, such as the Midwest. By investing funding to treatments and new management strategies for WNS, the fund hopes to defeat this devastating disease.



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Big brown bat

of various genes of *Pd*, including those affecting virulence, and assess the potential to weaken *PdPV*-infected fungus by displacing it with *PdPV*-free or altered-virus strains.

## **Testing Ultraviolet Light and Polyethylene Glycol as a White-Nose Syndrome Management Strategy** Grantee: Bat Conservation International

Grant Award:\$111,760
Matching Funds:
Total Amount:
Bat Conservation International in collaboration with the
U.S. Forest Service, Lockhaven University, Northern Arizona
University and the University of Winnipeg, will evaluate
the efficacy of using two non-toxic agents – ultraviolet light
and polyethylene glycol – to treat mine walls, and reduce
the prevalence of the fungus that causes WNS on roosting
surfaces in bat hibernacula. Project will test the two
environmental agents in three mines along the northern and
southern edges of the WNS spread, to test the potential of
environmental cleaning as a WNS management strategy.

**Developing and Testing Delivery Methods for Vaccine Treatments to Reduce White-Nose Syndrome in Bats** Grantee: US Geological Survey National Wildlife Health Center

## **Integrated Disease Management System Approach to Reduce White-Nose Syndrome Mortality in Texas** Grantee: Texas Parks and Wildlife Department

Grant Award:.....\$365,642 Matching Funds: .....\$194,307 **Total Amount:**.....\$559,949 The Texas Parks and Wildlife Department in collaboration with Kennesaw State University, Texas A&M University and Lockhaven University will implement an integrated disease management approach aimed at minimizing WNS mortality amongst tricolored bats in Texas. Project will use multiple mitigation approaches, including high-pressure steam cleaning, application of polyethylene glycol, and anti-fungal fumigants, to delay the establishment of *Pd*, the causal agent of WNS, reduce WNS-related mortality, and slow the spread of the pathogen.