



NFWF

Kuahiwi a Kai: Lānaʻi Watershed Conservation

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FUNDING PARTNER



Pūlama Lānaʻi
Preservation. Progress. Sustainability.

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

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Hawaiian petrel chick

OVERVIEW

In 2019, the National Fish and Wildlife Foundation (NFWF) and Pūlama Lānaʻi announced a 2020-year round of funding for the Kuahiwi a Kai: Lānaʻi Watershed Conservation Program. Six new sustainable land management grants totaling \$448,520 were awarded. The six awards announced generated \$443,300 in matching funds from the grantees, providing a total conservation impact of \$891,820.

The Kuahiwi a Kai: Lānaʻi Watershed Conservation Program focuses on watershed-scale strategies to protect and enhance Lānaʻi's coral reefs, native plants and animals, habitats for endangered Hawaiian petrel, and sensitive coastal cultural sites. The awarded projects take a unified approach to sustainable land management and community stewardship, similar to the ahupuaʻa system of Hawaiian tradition, by protecting native ecosystems and providing improved ecosystem services.

(continued)

Ungulate Fencing Assessment and Feasibility Study on Northeast Lānaʻi (HI)

Grantee: Pono Pacific Land Management

Grant Amount: \$19,019
 Matching Funds: \$20,000
 Total: \$39,019

Identify, map, and provide cost estimates and implementation plans for ungulate fencing alignments along the northern and southern borders of the program area, as well as interior fencing options on northeast Lānaʻi. Project will assist in prioritizing fence implementation locations and provide conservation recommendations for ungulate monitoring and control strategies.

Light Detection and Ranging (LIDAR) Mapping and Sedimentation Evaluation on Lānaʻi (HI)

Grantee: U.S. Geological Survey

Grant Amount: \$149,868
 Matching Funds: \$155,000
 Total: \$304,868

Map, model, and monitor sources of fine-sediment pollution from the ridgelines down to the shoreline on northeast Lānaʻi. Project will collect high-quality airborne Light Detection and Ranging (LIDAR) data, conduct infiltration tests, and install erosion pin monitoring sites to identify sedimentation hotspots in order to inform management decisions on fencing of priority watersheds, ungulate population control, and re-vegetation efforts.

Mapping Native and Non-Native Vegetation Communities on Lānaʻi (HI)

Grantee: U.S. Geological Survey

Grant Amount: \$115,616
 Matching Funds: \$117,120
 Total: \$232,736

Develop vegetation classification maps and conduct a change analysis for Lānaʻi using high-resolution spatial imagery, historical data and images combined with data samples collected on the ground to produce native and non-native vegetation maps. This project will inform land managers on areas of recent and rapid invasive species encroachment and guide future Hawaiian petrel habitat conservation and restoration efforts.

Review of Hawaiian Petrel Reproductive Success Monitoring on Lānaʻi (HI)

Grantee: Zoological Society of San Diego

Grant Amount: \$43,693
 Matching Funds: \$25,746
 Total: \$69,439

Develop a reproductive success monitoring plan for Hawaiian petrels on the island of Lānaʻi in Hawaiʻi. Project will detect changes in Hawaiian petrel reproductive success due to predation or other emerging threats, and report on the effectiveness of Hawaiian petrel conservation measures on Lānaʻi, including predator control and habitat restoration.



Hawaiian whitespotted toby on coral reef

Coral Reef and Nearshore Water Quality Assessment and Mapping on Northeast Lānaʻi (HI)

Grantee: The Nature Conservancy

Grant Amount: \$71,433
 Matching Funds: \$71,433
 Total: \$142,866

Establish a baseline of the nearshore fish and coral communities along the northeast coast of Lānaʻi to inform local watershed mitigation activities and the State of Hawaiʻi's 30x30 Initiative. Project will collect benthic, fish, and nearshore water quality data and establish sedimentation flow patterns and recommendations for monitoring.

Community Engagement Building and Water Quality Monitoring on Lānaʻi (HI)

Grantee: University of Hawaiʻi Office of Research Services

Grant Amount: \$48,891
 Matching Funds: \$54,000
 Total: \$102,891

Engage the community by facilitating the building, deployment, and monitoring of real-time water quality sensors at two strategic coastal sites on northeast Lānaʻi, Hawaiʻi. Project will establish, support, and enhance a diverse community of participants from local community colleges, grade schools, conservation organizations, and interested citizen scientists to fill downstream data gaps to inform future management decisions and monitor long-term water quality improvements.