

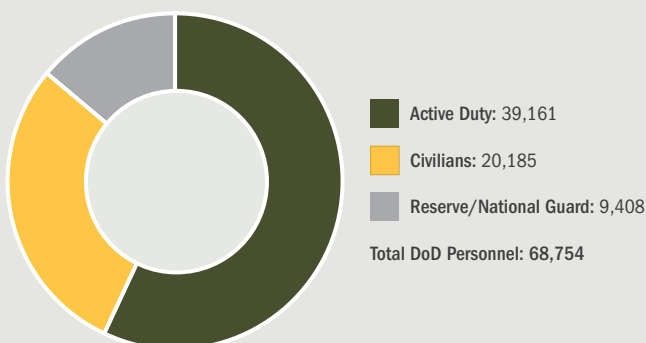
OVERVIEW

In Fiscal Year (FY) 2022, the state of Hawai'i received \$8.8 billion in Defense spending, which provides direct funding for the Department of Defense (DOD) personnel salaries, defense contracts, and construction of military facilities in the state. This spending by DOD personnel, contractors, and their families creates significant economic activity, attracts related industries and investments, and generates important state and local government tax revenues.

DOD's Readiness and Environmental Protection Integration (REPI) Program facilitates long-term, collaborative partnerships that preserve important habitats and natural resources, support sustainable and productive land uses, and promote resilient natural and working lands and waters for installations and their surrounding communities. The Department originally created the REPI Program in response to the development of lands and loss of habitat in the vicinity of installations, ranges, and airspace that can lead to restricted and inadequate training and testing alternatives. Through the REPI Program, DOD works with state and local governments, conservation organizations, cultural organizations, and willing private landowners to address these challenges and the viability of military installations and ranges. The REPI Program has benefited from broad bipartisan support both in the U.S. Congress and among groups representing state and local officials. From FY 2006 through FY 2023, DOD and its partners have contributed nearly \$162.4 million to REPI projects supporting four installations in Hawai'i.

DOD IN HAWAI'I

DOD Personnel (as of 30 Sep 2022)



Federal Defense Spending and Economic Impact

(in FY 2022)



\$8.8 billion
in Federal
Defense
spending



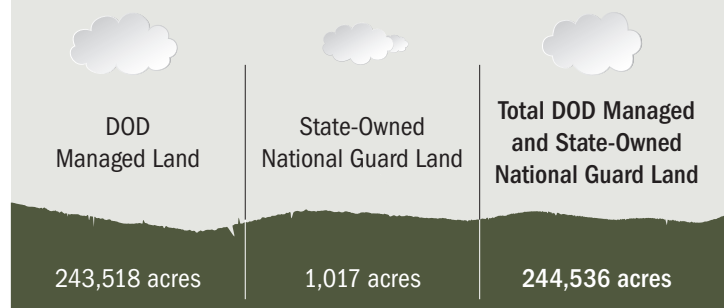
8.9%
of state Gross
Domestic
Product



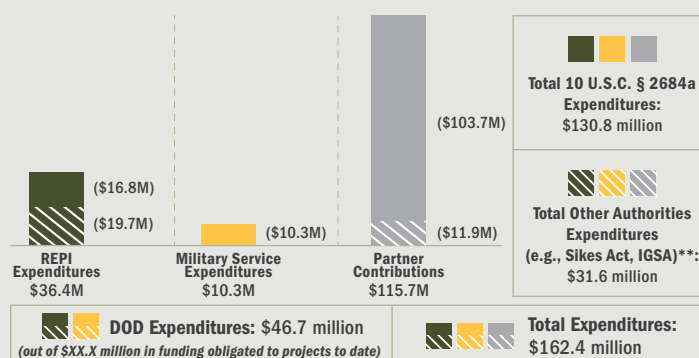
\$5.3 billion
in payroll contributed

\$3.2 billion
in contracts awarded

Acres of DOD Managed and State-Owned National Guard Land (as of 30 Sep 2022)



REPI PROJECTS* IN HAWAI'I

Funding Summary (from FY 2006 through FY 2023)

* REPI projects refer to any action authorized by 10 U.S. Code (U.S.C.) § 2684a to include the acquisition of real property interests in land from willing landowners to prevent development pressures, protect habitat, improve military installation resilience to climate change and extreme weather events, or any other natural resources management. REPI projects involving the Army or Army National Guard are also termed Army REPI partnerships. Those involving the Navy, Marine Corps, or Air Force, are also termed encroachment partnering agreements. Eligible entities include conservation organizations and state and local governments.

Total Acres Protected (FY 2006 through FY 2023): 15,332



MILITARY PRESENCE

- Direct and indirect impacts of military expenditures are reported to generate \$14.7 billion into Hawai'i's economy, creating more than **102,000 jobs** for residents that collectively report household incomes around \$8.7 billion.
- U.S. Army Garrison – Hawai'i is responsible for the day-to-day operations and services offered at 22 Army installations and sub-installations on the islands of O'ahu and Hawai'i, and includes a workforce comprised of **more than 820 civilian employees**.
- **Hawai'i is the only location in the world hosting the headquarters for the largest U.S. combatant command (USINDOPACOM)**, the Pacific component commands for the U.S. Army, Navy, Air Force, Marine Corps, and Space Force, and combat ready land, sea, and air forces.
- Hawai'i's population includes **more than 116,800 veterans**, of which nearly 17,000 are military retirees; this represents 11% of Hawai'i's population.
- The Pearl Harbor Naval Shipyard is **Hawai'i's largest industrial plant**, employing more than 4,600 engineers and skilled technicians to service naval surface ships and submarines based in Hawai'i, and responding to emergency repair calls throughout the Pacific.
- The Pacific Missile Range Facility on Kaua'i is the **world's largest multi-dimensional testing and training range**, and it is the only range in the world where submarines, surface ships, aircraft, and space vehicles can train and be tracked simultaneously.

REPI PROJECTS

Installation	County	Congressional District
Joint Base Pearl Harbor-Hickam	Honolulu	1st, 2nd
Marine Corps Base Hawai'i	Honolulu	2nd
PMRF Barking Sands	Kaua'i	2nd
U.S. Army Garrison Hawai'i with Pōhakuloa Training Area	Honolulu and Hawai'i	2nd

For all REPI Project Profiles visit: www.repi.mil/BufferProjects/ProjectList.aspx



Preserving the endangered palila's habitat will bolster ecosystem resiliency while enabling Pōhakuloa Training Area to carry out its mission.

Key REPI Partners

- AES Hawai'i, Inc.
- American Bird Conservancy
- City and County of Honolulu
- City and County of Kaua'i
- Hawai'i Land Trust
- Kaua'i Island Utilities Commission
- Kekaha Agriculture Association
- Kua'āina Ulu 'Auamo
- MA'O Organic Farms
- National Fish and Wildlife Foundation
- National Oceanic and Atmospheric Administration
- North Shore Community Land Trust
- State of Hawai'i Agribusiness Development Corporation
- State of Hawai'i Department of Land and Natural Resources
- The Trust for Public Land
- U.S. Department of Agriculture—Natural Resources Conservation Service
- U.S. Fish and Wildlife Service
- U.S. Fish and Wildlife Service—Kaua'i National Wildlife Refuge Complex
- U.S. Forest Service

Data Sources

- **For Economic Impact Information:** Hawai'i Chamber of Commerce, "Military Impact in Hawai'i": www.mybaseguide.com/installation/mcb-hawaii/community/military-impact-in-hawaii-3/
- **For Land Information:** Office of the Assistant Secretary of Defense for Sustainment, Real Property, Business Systems & Information Directorate: "Base Structure Report – FY23 Baseline" (as of 30 Sept 2022)
- **For Federal Spending and Personnel Information:** Office of Local Defense Community Cooperation: "Defense Spending by State – Fiscal Year 2022": www.oldcc.gov/dsbs-fy2022
- **For REPI Projects Information:** "2024 REPI Report to Congress": www.repi.mil/Portals/44/Documents/Reports_to_Congress/REPI2024RTC.pdf



PROJECT PROFILES

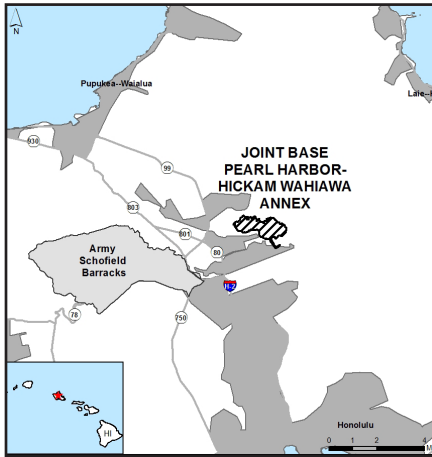
U.S. NAVY | U.S. AIR FORCE | HAWAII



JOINT BASE PEARL HARBOR-HICKAM WAHIAWĀ ANNEX

Joint Base Pearl Harbor-Hickam's Wahiawā Annex is a communication hub for the U.S. Navy and Department of Defense in the Pacific.

The installation provides satellite-based, telephone and data communication services from antennas on the island of O'ahu, which directly support the warfighter and other government missions globally. Antennas for low-earth orbiting satellites require 360 degree, clear view angles from five degrees above the horizon, meaning any development and tall obstructions on adjacent parcels can create community disturbances, harm surrounding indigenous habitats, and negatively impact the Department of Defense Navy's mission.



The lands surrounding the Wahiawā Annex are former farmlands owned by Dole Food Company, which wanted to divest itself of these parcels. Even partial obstructions on property to the south of the Annex compromise the quality and efficiency of transmitting and receiving the large volumes of voice and data communications required by the Wahiawā Annex mission. Through REPI, the Navy is working with the Trust for Public Land to protect these surrounding lands from development pressures.

After acquiring the property, the Trust for Public Land will limit building heights and convey the land to the State of Hawai'i for agricultural production. These efforts bolster state plans to jump-start farming and support needed agribusiness on O'ahu. This project provides the additional benefit of maintaining undeveloped lands underneath an overflight area for operations from the nearby Wheeler Army Airfield, multiplying its value to DOD and the entire region. Additionally, this project is improving water security by enhancing groundwater recharge into the Pearl Harbor aquifer, which supplies water to the installation and the surrounding communities. Erosion control measures will be implemented as well to reduce the volume of runoff into the aquifer, improving the water quality for several threatened and endangered species.

BENEFIT SUMMARY

COMMUNITY

- Preserves open space and agricultural land
- Recharges water supply for surrounding communities
- Supports ongoing regional planning efforts
- Bolsters the local economy

MILITARY

- Protects communication antennae against obstructions and electromagnetic interference
- Improves operational security and reduces trespassing on military lands
- Prevents flight operations from additional noise complaints



Nearby pineapple fields and other agricultural lands (top), surround and protect the Navy's state-of-the-art Mobile User Objective System satellite dishes and narrowband tactical satellite communications system for improved ground communications for U.S. forces on the move (above).

KEY PARTNERS

- City and County of Honolulu
- MA'O Organic Farms
- State of Hawai'i Agribusiness Development Corporation
- State of Hawai'i Department of Land and Natural Resources
- State of Hawai'i Division of Forestry and Wildlife
- The Trust for Public Land

CONTACT

COMMUNITY PLANS AND LIAISON OFFICE:
(808) 449-3138

FAST FACTS FROM FY 2017 THROUGH FY 2023 | Project Status: In Progress

Authority	Transactions	Acres Protected, Managed, or Improved	Total Funds Expended
10 U.S.C. § 2684a	6	2,175	\$22.0 million
Other (e.g., Sikes Act, IGSA)	—	—	\$24.4 million
TOTAL	6	2,175	\$46.5 million

Subtotals may not sum to combined totals due to rounding



REPI

UNITED STATES DEPARTMENT OF DEFENSE
READINESS AND ENVIRONMENTAL
PROTECTION INTEGRATION PROGRAM

PROJECT PROFILES

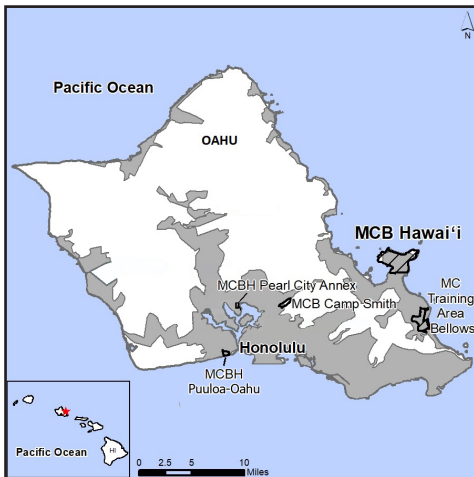
U.S. MARINE CORPS | HAWAII



MARINE CORPS BASE HAWAII

Consisting of seven properties on O'ahu and one on Moloka'i, Marine Corps Base Hawaii (MCBH) encompasses all United States Marine Corps installations in the Hawaiian Islands.

MCBH is home to the only Marine Corps training areas and ranges between the West Coast of the United States and Japan. Due to the scarcity of training area in the Hawaiian Islands, MCBH's air station is also heavily used by other Military Services. The installation manages three training areas that provide specific land, air, sea, and



amphibious training capabilities to assist the Marine Corps and U.S. and foreign Military Services in preparing for diverse operations, including large-scale joint operations.

Over 50 percent of the range complex is moderately to severely impacted by development pressures and climate change impacts. The urbanization of O'ahu and increased pressure to convert agricultural land to residential areas are predicted to lead to limited working lands and increased noise complaints. Additionally, increased development of wind turbines and

solar farms have presented disturbances to surrounding communities, threats to endangered species, and military training obstacles. Through this REPI project, MCBH aims to improve partnerships with Native Hawaiian organizations, preserve and improve local habitats, and facilitate greater connection with the community in Hawaii through enhanced knowledge and preservation of natural and cultural resources. Shared goals and benefits include reduced noise disturbances, enhanced working lands, and greater community resilience.

MCBH will ensure a holistic approach toward stated goals through increased education and engagement with encroachment partners, local land planning agencies, and state agencies. This approach will include natural and cultural management efforts to assist in the further protection of endemic and federally-protected species.

BENEFIT SUMMARY

COMMUNITY

- Maintains valued community resources
- Provides habitat for endangered species
- Protects working lands that benefit the local economy

MILITARY

- Reduces the potential for lost test and training days and the need for less-realistic workarounds
- Protects live-fire training capabilities
- Increases operational safety



The kōlea, or the Pacific golden plover (top), winters in the Main Hawaiian Islands and is often sighted on MCBH in Kāne'ohe Bay (bottom), as they often return to the same nesting site annually.

KEY PARTNERS

- City and County of Honolulu
- Kua'āina Ulu 'Auamo
- North Shore Community Land Trust
- State of Hawai'i Agribusiness Development Corporation
- State of Hawai'i Department of Land and Natural Resources
- Trust For Public Land

CONTACT

COMMUNITY PLANS AND LIAISON OFFICE:
(808) 257-8815

FAST FACTS THROUGH FY 2023 | Project Status: Initiated

Transactions	Acres Protected, Managed, or Improved	Total Funds Expended
—	—	—

Subtotals may not sum to combined totals due to rounding. | This project has an established and funded REPI partnership but has not completed any transactions through FY 2023.



REPI

UNITED STATES DEPARTMENT OF DEFENSE
READINESS AND ENVIRONMENTAL
PROTECTION INTEGRATION PROGRAM

PROJECT PROFILES
U.S. NAVY | HAWAII



PACIFIC MISSILE RANGE FACILITY BARKING SANDS

The U.S. Navy's Pacific Missile Range Facility (PMRF), located along the west coast of Kaua'i Island, is the world's largest instrumented multi-environment range.



PMRF provides premier training and test capabilities within an 1,100-square nautical mile instrumented underwater range; 42,000 square nautical miles of airspace, and when needed, up to 2.1 million square nautical miles of operating space. PMRF is capable of simultaneously supporting surface, subsurface, air, and space operations. Portions of the 7-mile terrestrial footprint also provide premier training and test opportunities. Infrastructure critical to ensuring test and training

activities carried out at the installation are safe and effective (i.e. outdoor night lighting, communication towers, utility lines) can result in impacts to seabirds protected under the Endangered Species Act (ESA), such as the 'a'o, or Newell's shearwater.

In an effort to improve the ecological baseline for these protected seabirds, PMRF is working proactively with federal, state, nonprofit, and private conservation organizations to implement landscape-level predator control at an important breeding colony site within Kaua'i's remote Honopū Valley. The project will include placement of artificial burrows, monitoring of colony productivity, predator and invasive species removal, and a native plant restoration component to sustain a healthy ecosystem. By creating a habitat for indigenous species to be protected and monitored off base, PMRF is also able to carry out its mission safely and effectively. This unique project is part of a larger, multi-partner effort that leverages existing species recovery plans and an island-wide predator control program, and will contribute significantly to efforts to reverse currently declining population trends.



Aerial view of Pacific Missile Range Facility Barking Sands (top). Pacific Missile Range Facility is working with partners to establish predator-exclusion fencing around one of the last remaining breeding colonies for the 'a'o/Newell's shearwater, 'ua'u/Hawaiian Petrel, and 'akē'akē/band-rumped storm-petrel (bottom).

KEY PARTNERS

- American Bird Conservancy
- City and County of Kaua'i
- Kaua'i Island Utilities Commission
- Kekaha Agriculture Association
- National Fish and Wildlife Foundation
- State of Hawai'i Agribusiness Development Corporation
- State of Hawai'i Department of Land and Natural Resources
- U.S. Fish and Wildlife Service-Kaua'i National Wildlife Refuge Complex

BENEFIT SUMMARY

COMMUNITY

- Protects threatened and endangered species
- Brings together new partners

MILITARY

- Improves operational safety
- Prevents additional training restrictions and unrealistic workarounds

CONTACT

PUBLIC AFFAIRS OFFICE:
(808) 335-4740

FAST FACTS FROM FY 2019 THROUGH FY 2023 | Project Status: Initiated

Authority	Transactions	Acres Protected, Managed, or Improved	Total Funds Expended
10 U.S.C. § 2684a	—	—	—
Other (e.g., Sikes Act, IGSA)	—	—	\$7.1 million
TOTAL	—	—	\$7.1 million

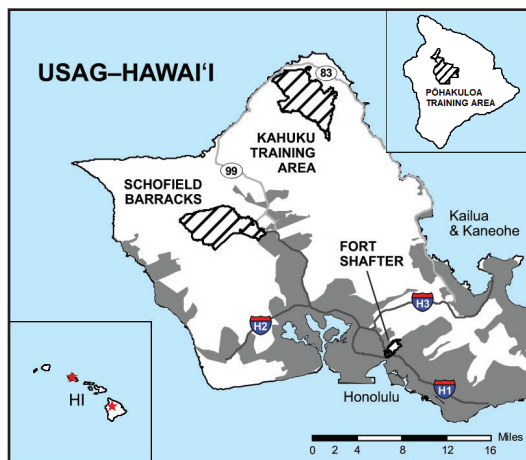
Subtotals may not sum to combined totals due to rounding. | This project has expended REPI funds to support the ongoing management or improvement of lands outside the installation.



U.S. ARMY GARRISON-HAWAII WITH PŌHAKULOA TRAINING AREA

An important platform for the Pacific theater, U.S. Army Garrison-Hawaii (USAG-HI) can quickly mobilize soldiers in support of combat operations and disaster relief missions.

The Army's ability to station, train, and deploy the 2/25th Stryker Brigade Combat Team in Hawaii is essential to our nation's defense strategy and transformation. Land conservation actions protect the Schofield Barracks, the Pōhakuloa Training Area (PTA), and the Kahuku Training Area (KTA), where diverse indigenous species populations reside near critical training areas.



To protect USAG-HI and neighboring habitats, its partners have undertaken various projects with shared benefits over the past several years. In a key success on the lush O'ahu North Shore, a broad coalition of partners—including community and environmental groups and state and federal agencies—preserved Pūpūkea

Paumalu, a vast swath of beach-front open space slated to become a residential development. Another project is working to mitigate wildfire risk on State lands with an emphasis on firebreak development and road improvements on lands adjacent to the Army installations.

Additionally, the partners worked together to protect the habitat-rich 3,592-acre Honouliuli Preserve, a lowland forest on the eastern slope of the Wai'anae Mountain Range. The preserve contains 35 threatened and endangered species, including the endangered O'ahu 'elepaio, and 16 species found nowhere else in the world. Altogether, the installation's efforts are protecting not just valuable open space and habitat, but also drinking water resources, cultural sites, youth education opportunities, tourism, and recreational resources, all while ensuring the vitality of USAG-HI's defense mission.

BENEFIT SUMMARY

COMMUNITY

- Supports existing regional planning efforts
- Maintains local character
- Provides habitat for endangered species
- Helps improve water quality

MILITARY

- Preserves live-fire and ground maneuver training capacity
- Preserves training realism by preventing the need for workarounds
- Prevents the loss of training days



REPI projects help to ensure indigenous species, like the 'elepaio bird (top), are protected while military training is conducted across USAG Hawaii's ranges and installations, such as Schofield Barracks (bottom).

KEY PARTNERS

- AES Hawaii, LLC
- City and County of Honolulu
- Hawaii Land Trust
- National Fish and Wildlife Foundation
- National Oceanic and Atmospheric Administration
- North Shore Community Land Trust
- State of Hawaii Agribusiness Development Corporation
- State of Hawaii Department of Land and Natural Resources
- The Trust for Public Land
- U.S. Department of Agriculture-Natural Resources Conservation Service
- U.S. Fish and Wildlife Service
- U.S. Forest Service

CONTACT

PUBLIC AFFAIRS OFFICE:
(808) 656-3154

FAST FACTS FROM FY 2006 THROUGH FY 2023 | Project Status: In Progress

Authority	Transactions	Acres Protected, Managed, or Improved	Total Funds Expended
10 U.S.C. § 2684a	7	13,157	\$108.8 million

Subtotals may not sum to combined totals due to rounding