Hesperomannia arbuscula

hatinella

ncompletum

Rhyncogonus

brackenridae

Nesochen

sandvicensis

Véné aoose

lüeaaea

neowaraea

Ma'o Hau Hele

stellaris

Kāhuli tree snail

mustelina

## HAWAI'I'S RARE NATURAL RESOURCES

Protection of the abundant endangered plants and animals found on Army training lands is the primary goal of the Army Natural Resource Program.

"...Army personnel at all levels must ensure that they carry out mission requirements in harmony with the requirements of the Endangered Species Act."

~Army Regulation 200-3

THE ARMY NATURAL RESOURCE PROGRAM ACTIONS ARE GUIDED BY MULTI-SPECIES MANAGEMENT PLANS, DEVELOPED WITH THE HELP OF EXPERT STATE AND FEDERAL

**BIOLOGISTS.** 

Many of Hawai'i's native ecosystems are found **nowhere else in the world**; almost **80%** of the endangered plants and animals living in these fragile ecosystems are found on Army Training lands.

### ALAMA 'ĀINA HELP PROTECT THE LAND

Volunteers have logged hundreds of hours helping to protect Hawai'i's natural resources on Army land.

For volunteer opportunities with the O'ahu Army Natural Resource Program, please contact one of our Environmental Outreach Specialists at: (808)656-7641 To visit the interpretive garden and plant nursery at the Pōhakuloa Training Area Natural Resource Program on the Big Island, please call for an appointment: (808) 969-1966

#### US ARMY GARRISON HAWAI'I

# NATURAL RESOURCE PROGRAM

# DID YOU KNOW

The U.S. Army spends over \$10 million per year protecting more than 100 species of endangered plants and animals in Hawai'i.

The U.S. Army employs more than 80 technically-trained civilian and contracted field biologists in their Natural Resource Program in Hawai'i.

### **THREATS TO HAWAI'I'S NATURAL RESOURCES**

Invasive, non-native plants (weeds) aggressively



Fountain grass

compete for nutrients, water, and sunlight with native plants.



Introduced, non-native predators such as rats, feral cats, and Indian mongooses eat native birds, bird eggs, plants, seeds, and snails.

Feral pigs, goats, and sheep feed on and uproot native plants, and spread weed

seeds. Pig wallows can become mosquito breeding-



grounds, and mosquitoes spread disease to native forest birds.

The introduced Rosy Wolf Snail (Euglandina rosea) preys on native Kāhuli

aialua fire. August 2007

tree snails. Rosy Wolf Sn

Wildfires destroy native forests and create open areas where invasive weeds quickly become established.

# **ARMY NATURAL RESOURCE PROTECTION ACTIONS**

Endangered plant species are monitored to track their health, collect seeds for propagation, and to control threats.

**ARMY NATURAL RESOURCE STAFF CURRENTLY MONITOR MORE THAN 500 ENDANGERED PLANT** POPULATIONS IN HAWAL'I.

Endangered plants grown from seed or cuttings are cared for in Army Natural **Resource Program plant** nurseries until they can be planted back into the wild.

> Natural resource staff rappel to access and monitor cliff dwelling rare plants.





**ARMY SPENDS** MORE THAN 3,000 **PEOPLE-HOURS** CONTROLLING WEEDS ON MORE THAN 55,200 ACRES OF LAND EACH YEAR.



Feral pigs and goats are managed by fence construction and



Predator control for these endangered

animals includes setting up bait stations and traps for rats.

