

What are the ISCs?





The Invasive Species Committees

• Each ISC has an advisory committee made up of representatives from multiple agencies and NGOs:

Federal:

- US Forest Service IPIF
- US Fish & Wildlife
- Army Natural Resources
 Program
- National Park Service
- USDA-ARS

State:

- HISC Staff
- UH CTAHR & Faculty
- DLNR DOFAW, NARS,
 NEPM
- HDOA
- CRB Response Program
- Hawai'i Watershed
 Partnerships

County/Private/NGO:

- Honolulu C&C Board of Water Supply
- The Nature Conservancy
- Hawaiian Electric
- National Tropical Botanical Gardens
- Malama o Puna
- SWCA Consultants
- County of HI Res & Dev

 The ISCs are a project of the University of Hawai'i, Pacific Cooperative Studies Unit (PCSU/RCUH) The ISCs are a member of Hawaiii
Conservation Alliance and participants of
the Coordinating Group on Alien Pest
Species (CGAPS)





Albizia on Hawai'i Island

• A serious threat to public safety and infrastructure

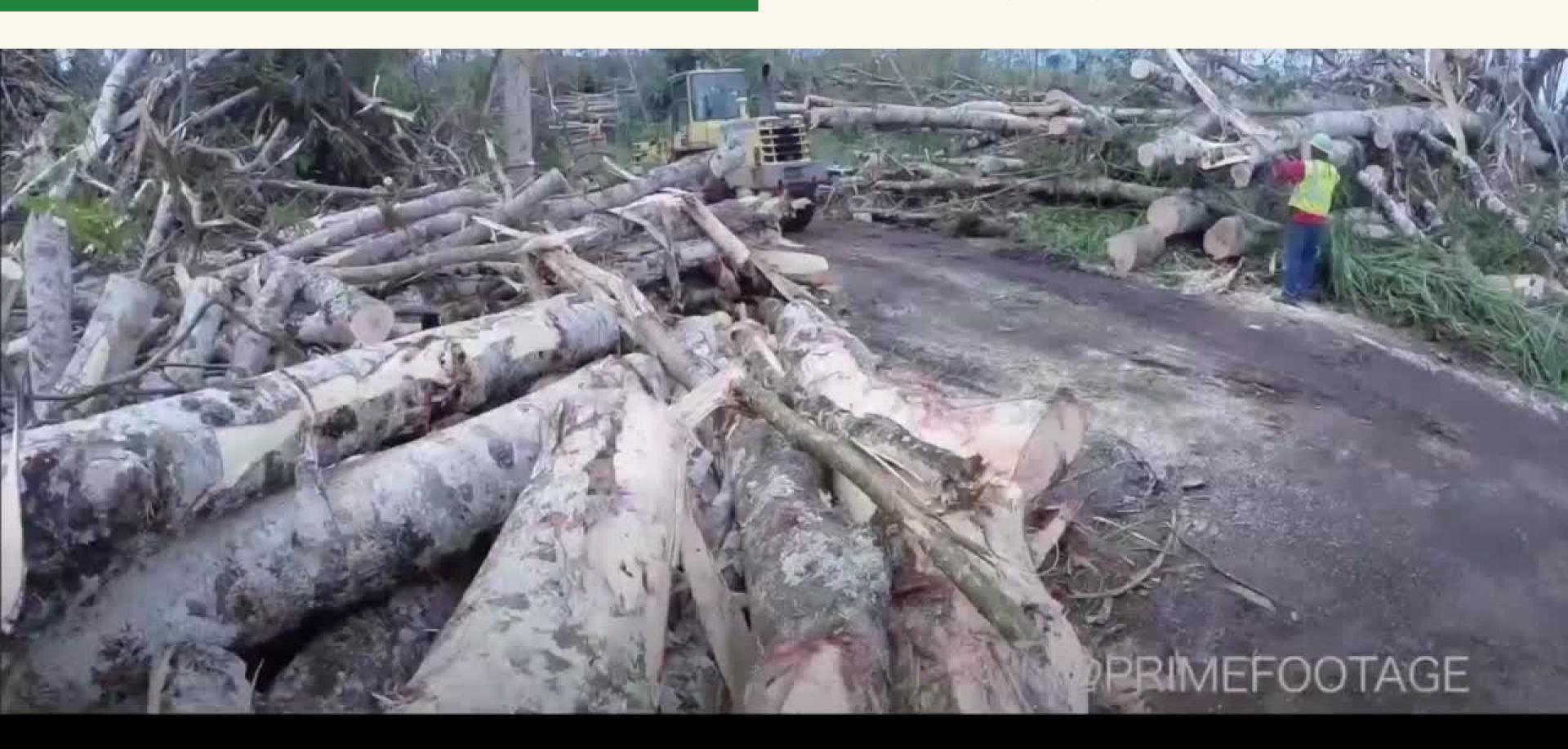


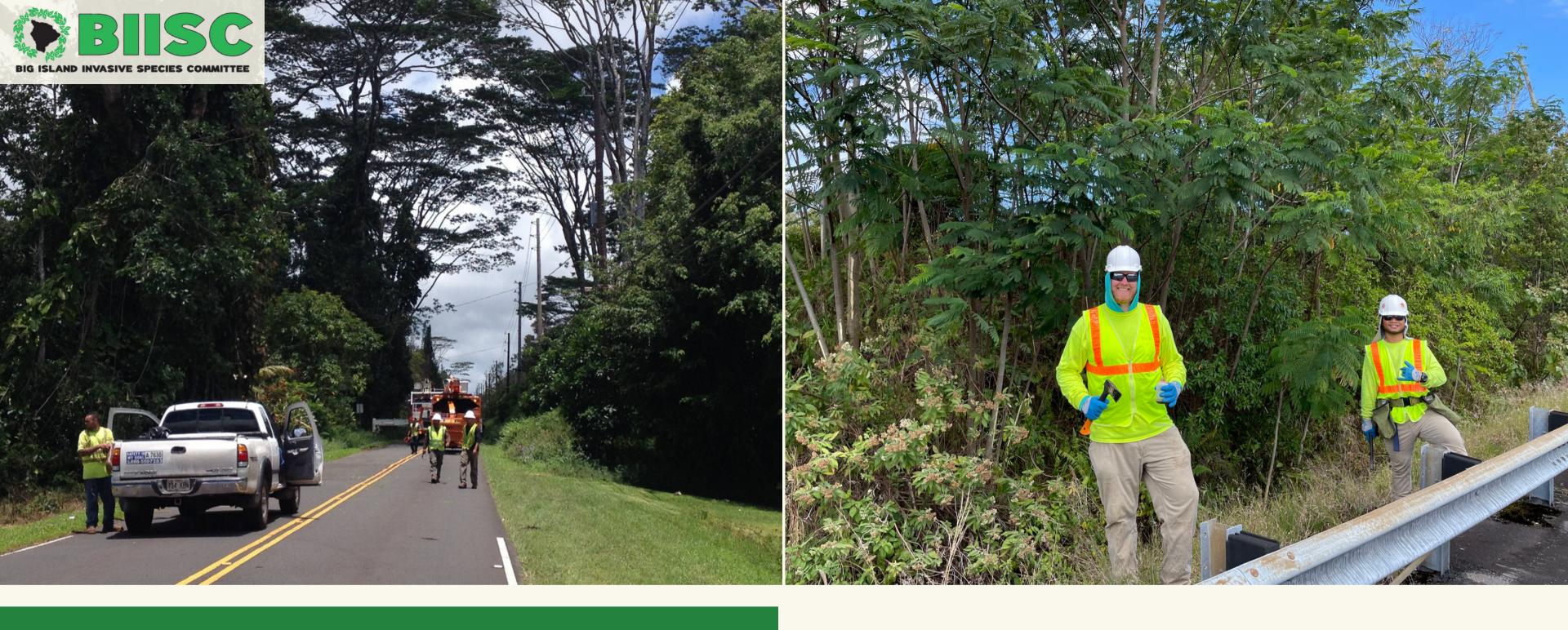


Albizia on Hawai'i Island

Tropical Storm Iselle

Puna District (2014)





Stakeholder collaboration







Black Sands Community Association



Plant Detection & Evaluation

Early detection surveys

- iNaturalist
- Island-wide roadside surveys
- Community reports



- Hawai'i Pacific Weed Risk Assessment (HPWRA)
- Plant Pono

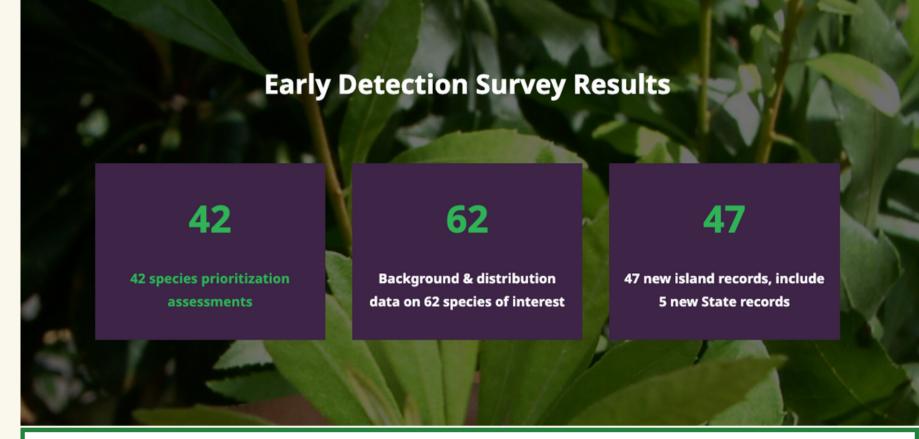


- Surveys
- Buffer zones
- Monitor
 - Ensure elimination/site eradication









KISC KAUAI INVASIVE SPECIES COMMITTEE	Kauai Status	KISC Status	HPWRA	Invasive Impacts Score	Feasibility Score	Combined Score
Buddleja madagascariensis	NATURALIZED	EARLY DETECTION	HIGH RISK (21)	8	4	12

Initial Prioritization Report completed: December 2017

Report updated as of: N/A

Current Recommendation for KISC: pending scoring rank and committee review.

Knowledge Gaps and Contingencies:

- Delimiting surveys surrounding known locations are required to gain knowledge of the extent of populations.
- An understanding of partnership roles may increase the likelihood/rate of success.

Background

Buddleja madagascariensis, or "smoke bush" (Buddlejaceae), is a large, woody vining shrub that is cultivated in warm temperate areas worldwide as an ornamental (Staples and Herbst 2005). B. madagascariensis is not currently considered a "Target" (i.e. controlled for island-wide eradication) by KISC, but the staff has assisted Kokee Resource Conservation Program (KRCP) with the control of this plant in Kokee. B. madagascariensis is included in the 2016 Kauai Pono Endorsement program to limit its dispersal through the nursery trade. The purpose of this prioritization assessment report is to consider the potential invasive impacts of B. madagascariensis and evaluate whether KISC should attempt whole-island eradication in cooperation with partnering agencies (i.e. accept as "Partnership" species status). This will be informed by scoring and comparing B. madagascariensis to other "Early Detection" species known to Kauai (See Table 5 in KISC Plant Early Detection Report for status terminology).

Detection and Distribution

B. madagascariensis was first vouchered on Kauai at a private residence in Kalaheo in 1987 (D.H. Lorence 5342, PTBG),

Current Eradication Targets



Successful eradications



- Coqui
- Pampas Grass
- Fireweed
- Wax Myrtle

- Jerusalem Thorn
- Poison Devil's Pepper
- Cogon Grass

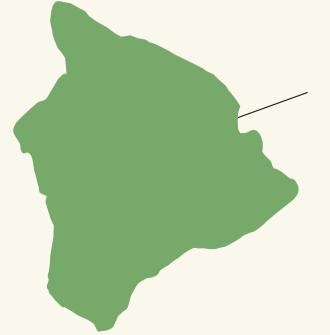




- Ruby Saltbush
- Bingabing
- Asian Melastome
- Red Melastome
- Jerusalem Thorn
- Downy Rose Myrtle
- Himalayan Raspberry
- Milk Thistle
- Osage Orange
- Veiled Chameleon



- Giant Reed
- Pampas Grass
- Parasol Tree
- Fountain Grass
- Gorse
- Tree Daisy
- Albizia
- Coqui





- Pampas Grass
- Axis Deer
- Jerusalem Thorn
- Princess Tree
- Purple Toadflax

ERADICATION:

The complete removal of an invasive species from an island.

CONTAINMENT:

Restricting an invasive species to a limited area to try to prevent spread.

MANAGEMENT:

Eradication is not feasible. Landowners and land managers control at own expense.

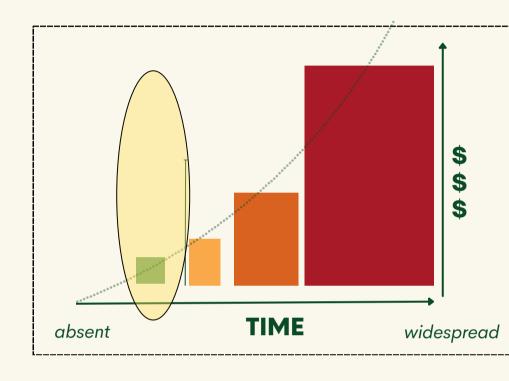
TIME

absent

species widespread

Port of Entry/Exit Pest Monitoring Program

- University of Hawai'i Invasive Species Committees, Hawai'i Ant Lab (HAL)
- Hawai'i Dept of Transportation (HDOT)
- Hawai'i Dept of Agriculture (HDOA)
- Hawai'i Dept of Health (HDOH)
- Hawai'i Dept of Land & Natural Resources (DLNR)





Coconut rhinoceros beetle



Japanese Beetle



Africanized Honeybees



Mosquitoes

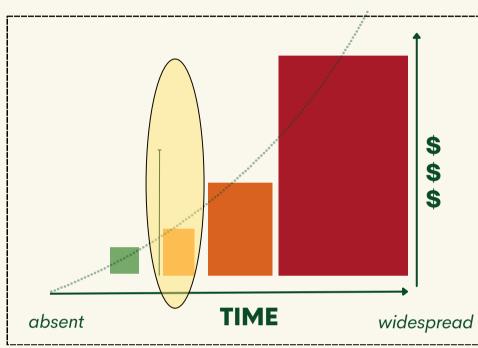


Red Imported Fire Ant

Invasive animal species











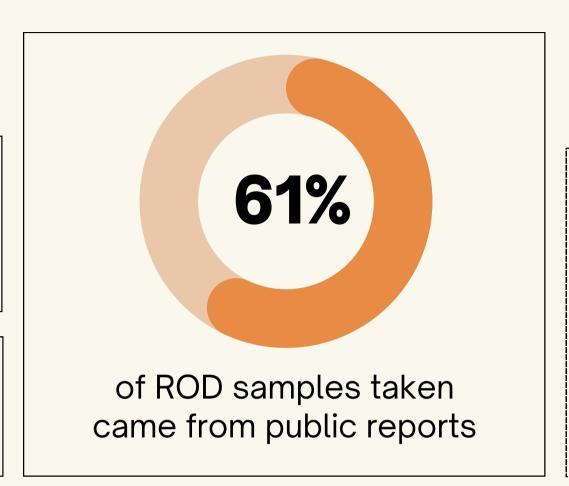
Rapid 'Ōhi'a Death

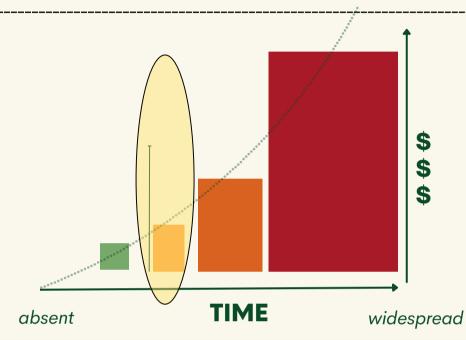
1,108,105 acres

acres of 'ōhi'a forest surveyed for ROD suspect trees

216 trees sampled for ROD

12 detections of ROD on Oʻahu











TIME

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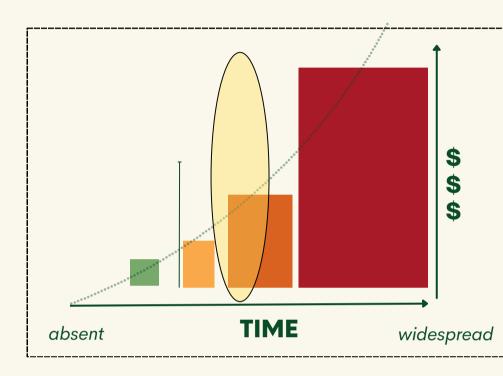
Landowners and land managers
control at own expense.

species absent species widespread

LFA Control on Maui



- Aerial delivery of gel-bait developed with Hawai'i Ant Lab
- SLN label approved by HDOA
- Currently exploring use of UAVs (drones) with UH Hilo SDAV Lab







175-acre treatment area

reduced to no detectable LFA after 19 treatments

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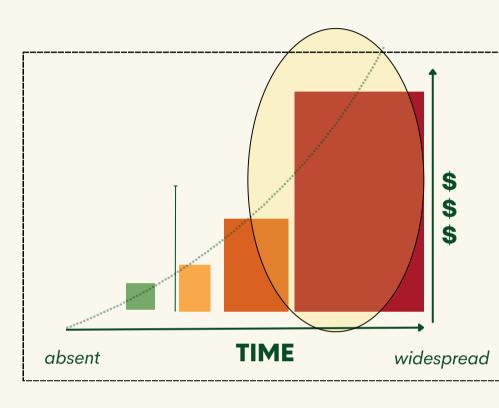
TIME

species widespread

Community outreach















Community Engagement (2022)





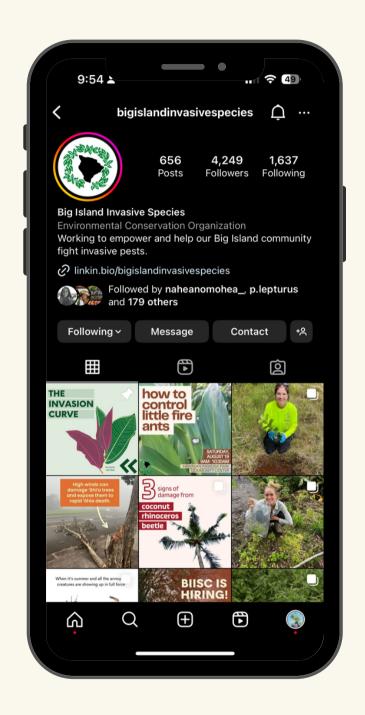


4,322

K-12 students reached

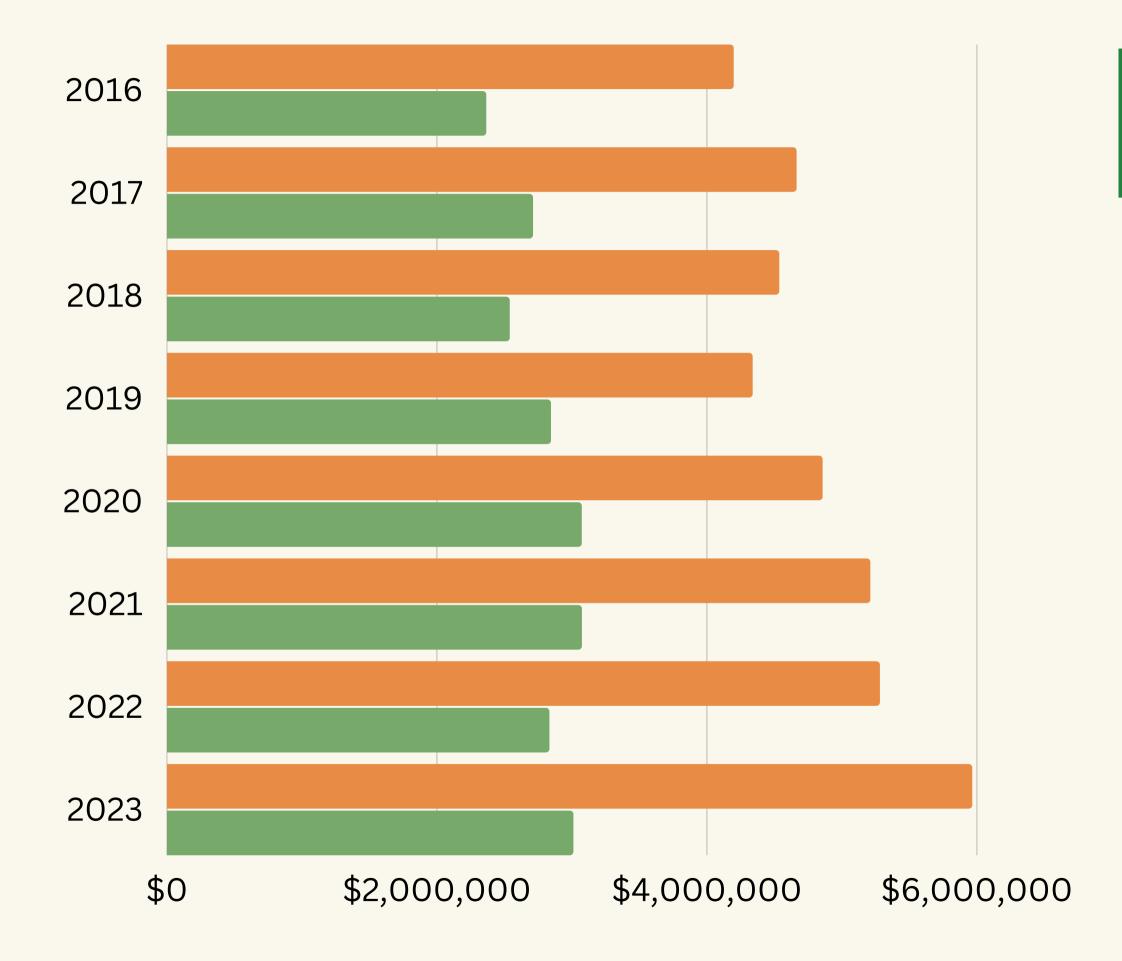
13,040

person-to-person contacts



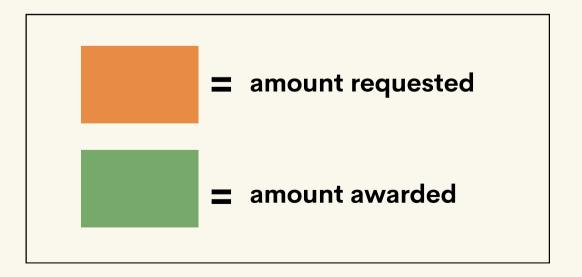
733,389 reached via social

media platforms

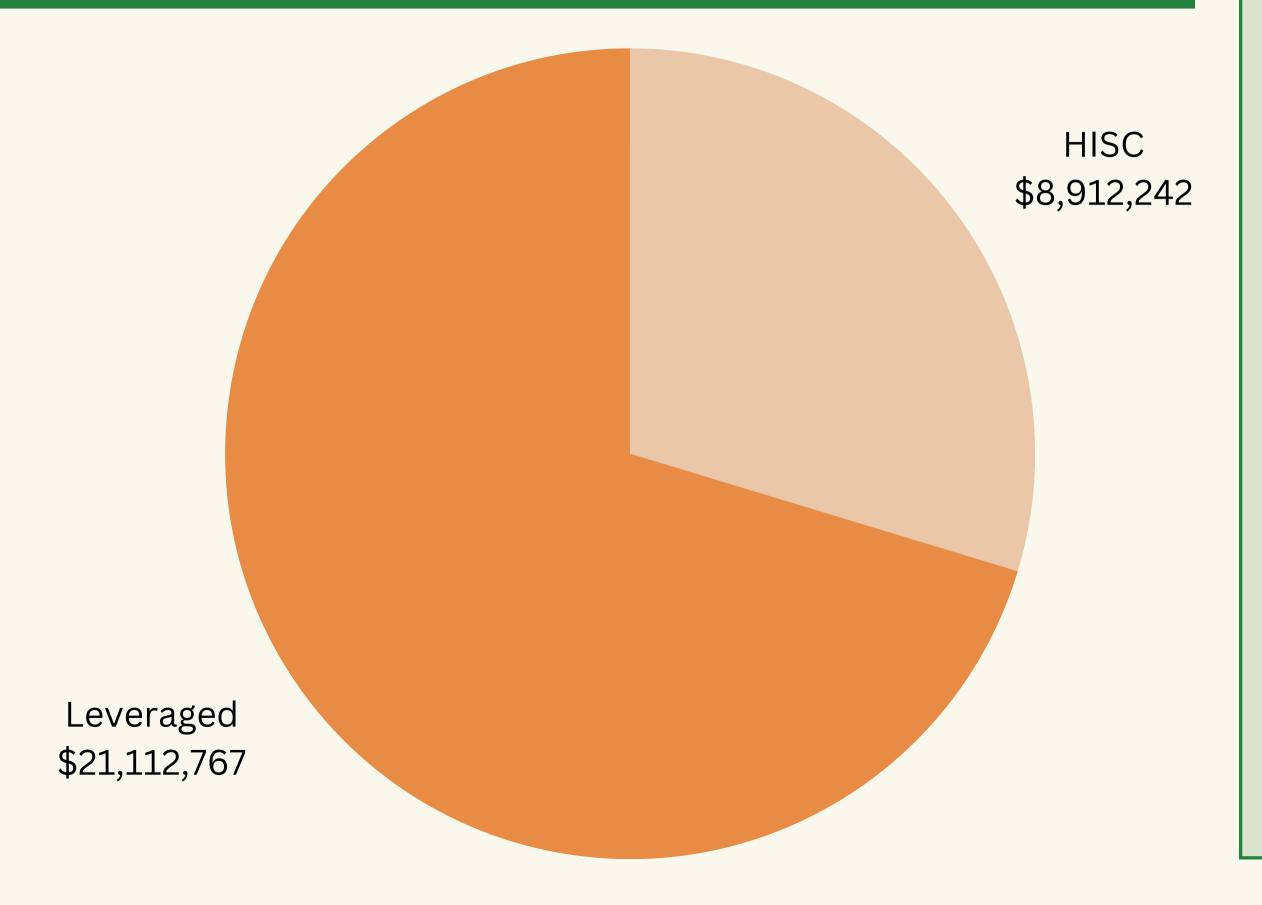


HISC Funding

- Island ISCs are entirely reliant on grant funding from year to year
- Operational funding
- Baseyard rentals, trucks, vehicle repairs, staff PPE and equipment, etc.



Leveraged funding over 3 years



Federal:

- USDA Forest Service
- USDA APHIS
- National Fish & Wildlife Program
- USDoD Readiness & Environmental Integration Protection
- Oahu Army Natural Resources Program
- US Fish & Wildlife Service

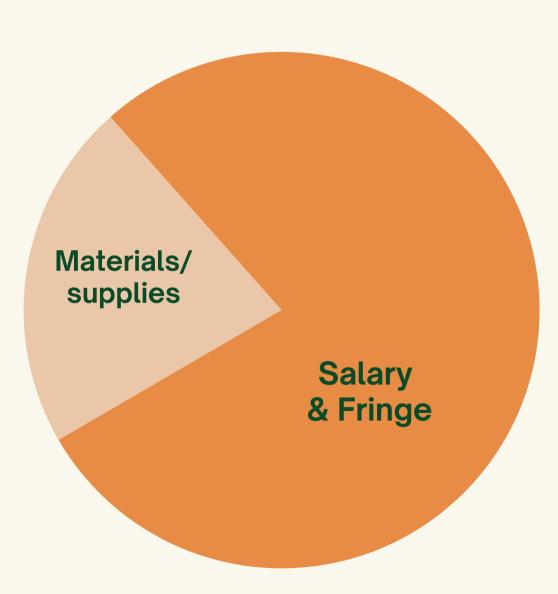
State:

- Hawai'i Tourism Authority
- DLNR/DOFAW
- Watershed Partnerships Program
- Hawaii Army National Guard

Local/Private:

- Counties of Maui, Kaua'i, Hawai'i
- Honolulu Board of Water Supply
- Hawai'i Community Foundation
- Mosaic
- Vibrant Hawai'i
- Private donations

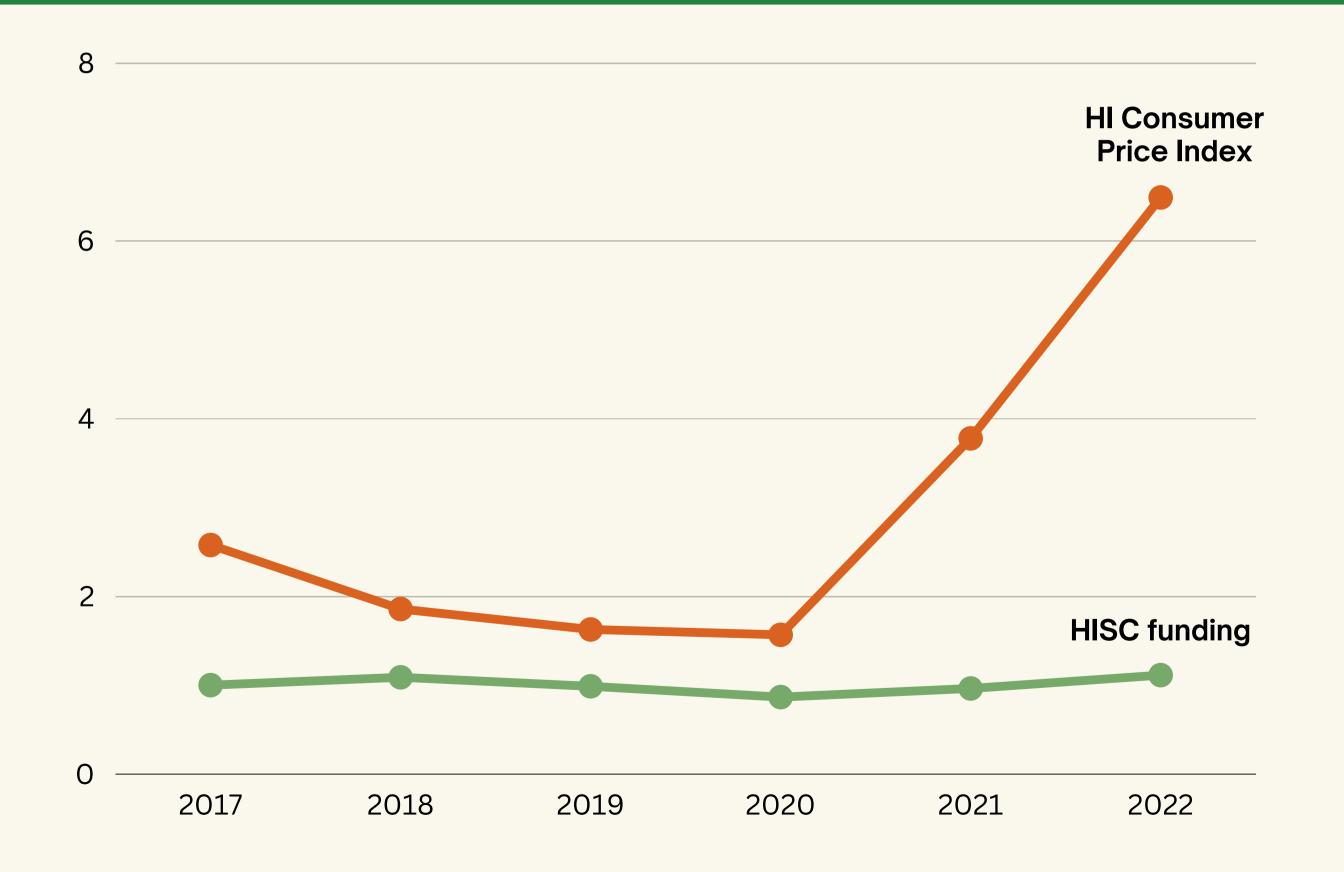
Most HISC funding is spent on staff



Based on BIISC 2023 budget



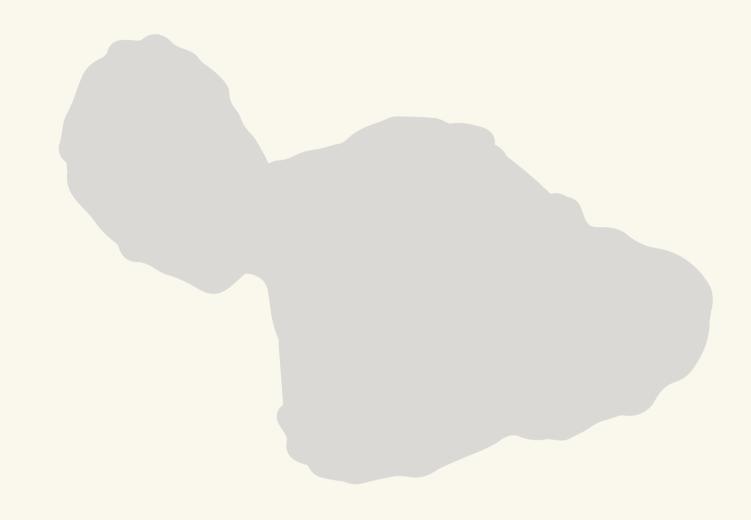
HI Consumer Price Index vs. HISC Funding





Source: Hawaii Annual CPI Data - Federal Reserve Bank of St. Louis or originally, US Bureau of Labor Statistics (August 2023)

Invasive Little Fire Ants

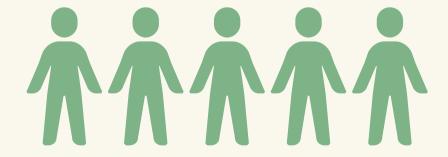


MISC Hawai'i Ant Lab HDOA

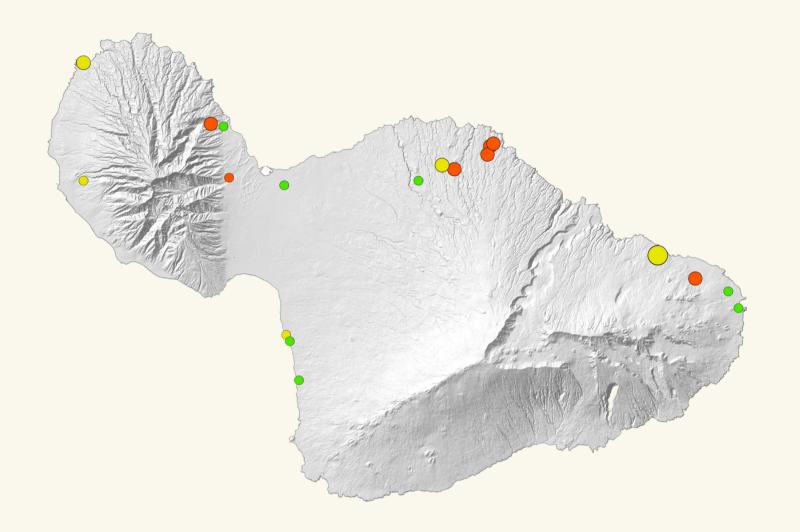




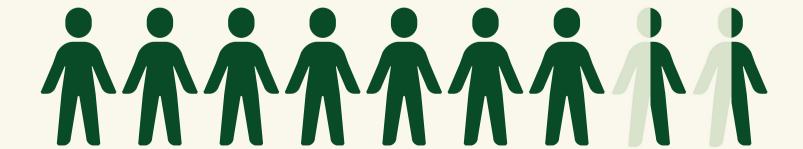
OISC
Hawai'i Ant Lab
HDOA



Maui - 7 active sites



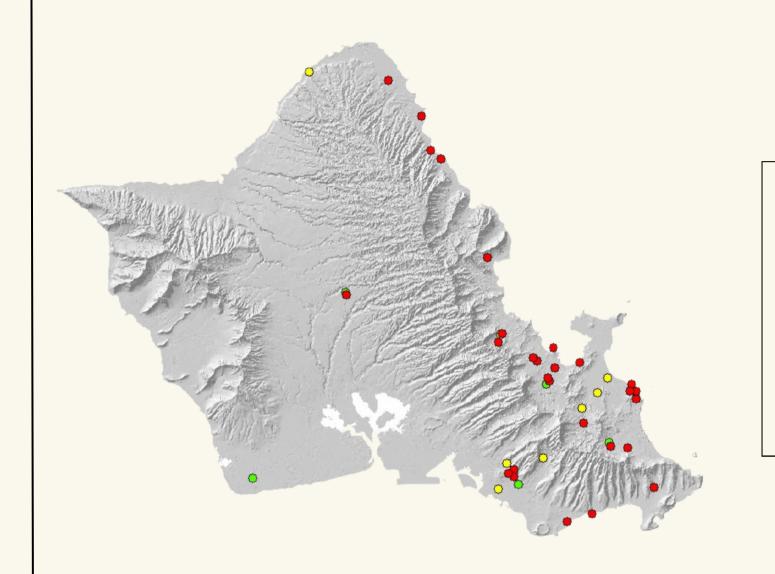
MISC



7 full-time staff

2 outreach staff

O'ahu - 32 active sites



Active

Monitoring

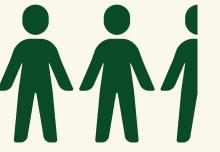
Eradicated

OISC



2 outreach staff

Hawai'i Ant Lab (HAL)



2 full-time, 1 part-time staff

