Invasive Species Committees of Hawai'i











Informational Briefing
Senate Committee on Energy & Environment
House Committee on Energy & Environmental Protection
January 8, 2014

Invasive Species don't care about boundaries:

- legal
- traditional
- watersheds
- jurisdictional



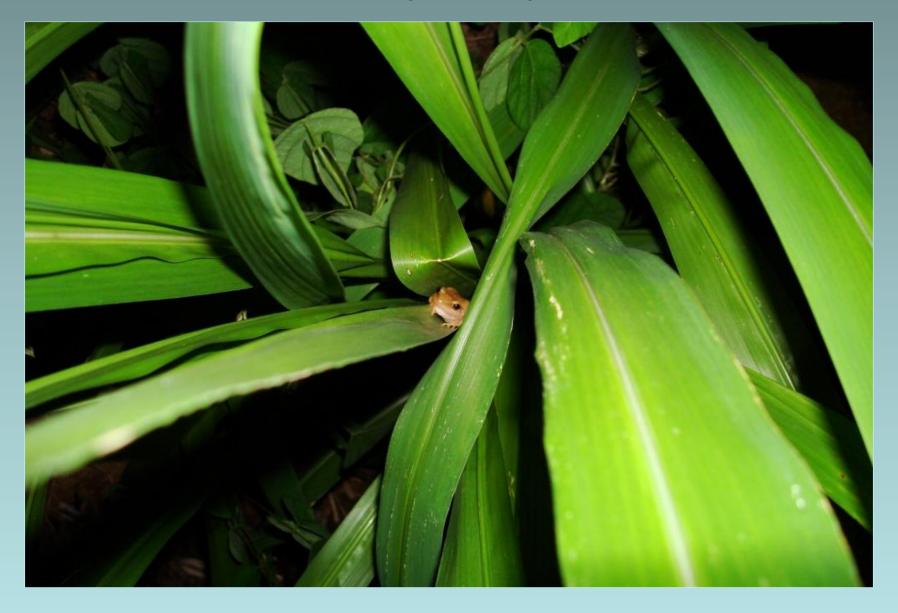
Whether they start in a backyard...

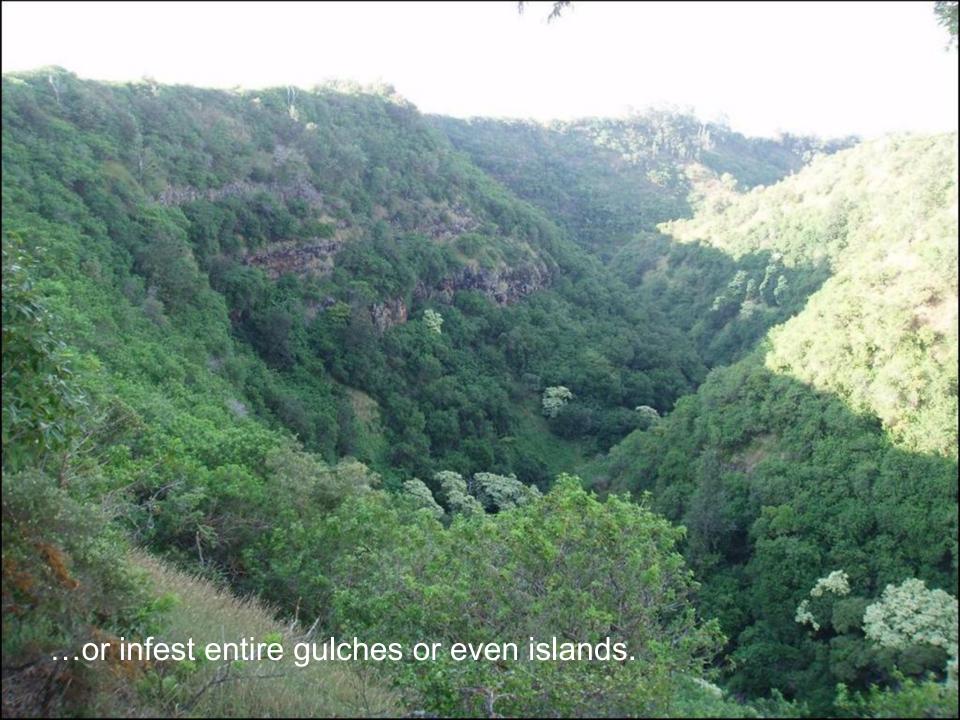


...or end up in a watershed



...come in undetected in a plant shipment





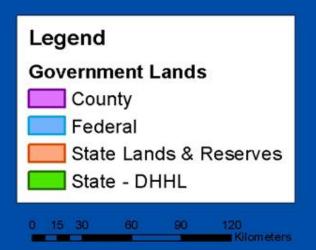
Jurisdictional Boundaries: Land Ownership



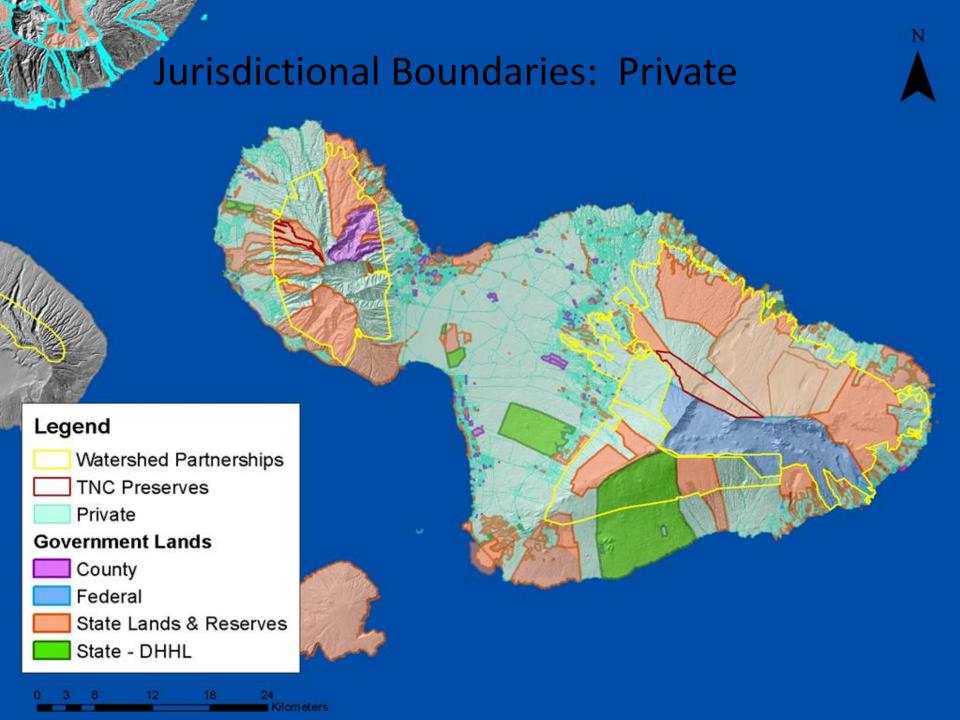




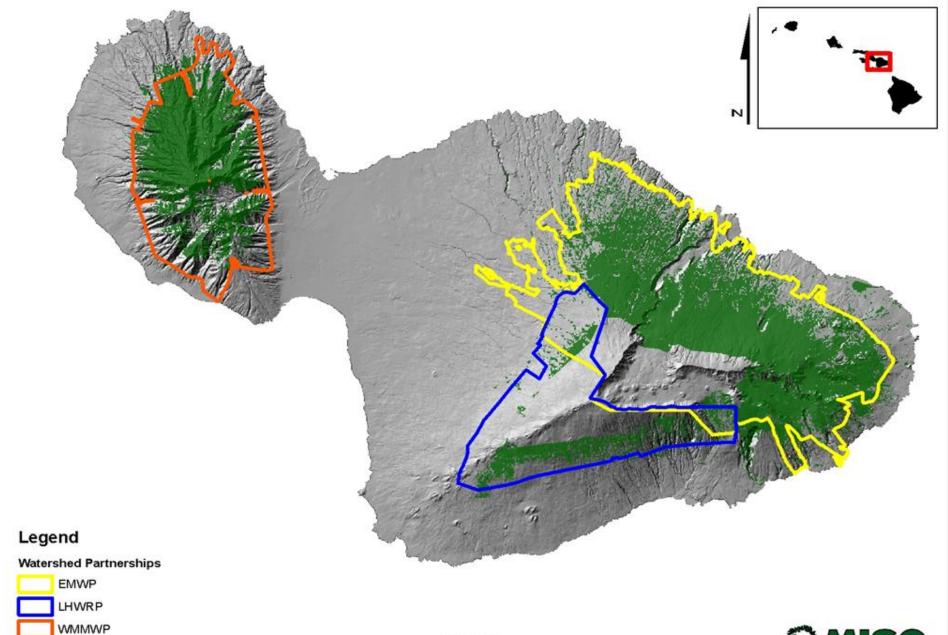








Maui Island - Watershed Partnerships

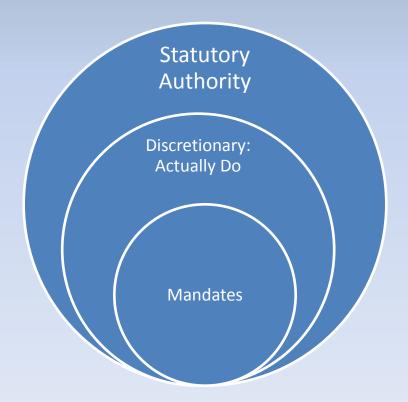




State Priority Watersheds

Jurisdictional Boundaries: Actions

- Statutory authority
 - Mandates: What must you do?
 - Discretionary: What can you do?



Challenges with our Biosecurity System

- Agencies are impeded in their work by inadequate powers, resources and public support.
 (Warren 2006)
- Environmental pests arriving in Hawaii have had an unchallenged opportunity for establishment in the wide jurisdictional gap existing between the ports of entry and the upland forests. (Kraus & Duffy 2009)





One response to perceived problems – Formation of Invasive Species Committees

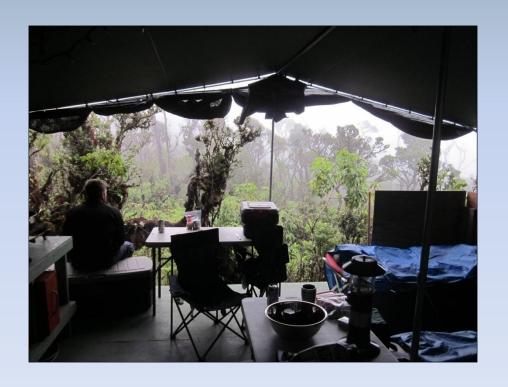
- Fill gaps created by multi-agency responsibility for invasive species
- Develop rapid response capacity on each island.
- Develop community support on invasive species issues
- Targets and plans are island-based

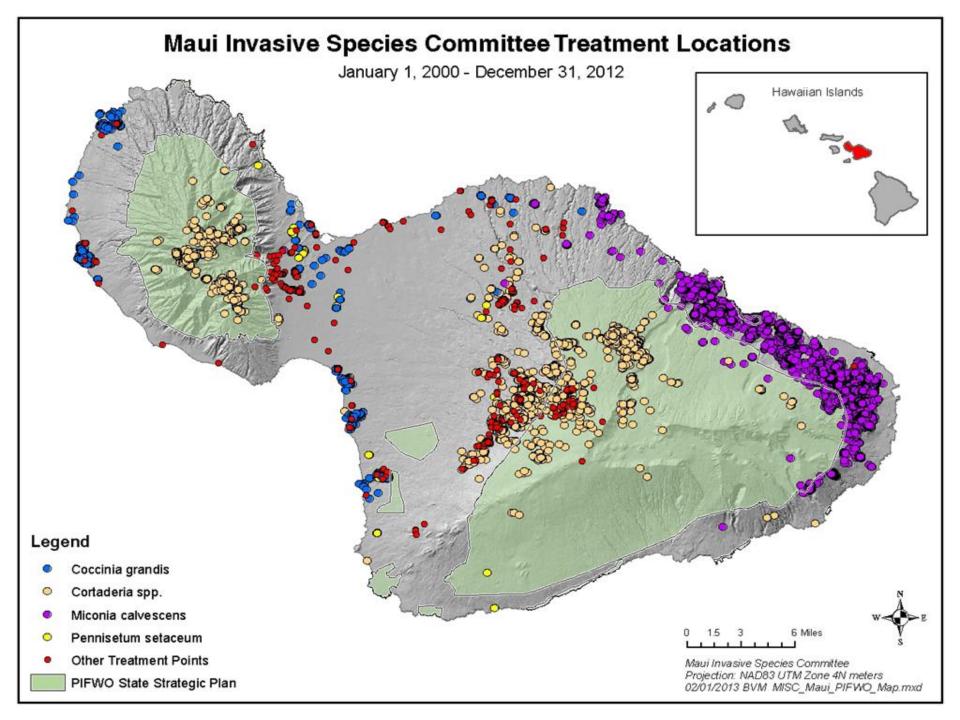
Invasive Species Committees

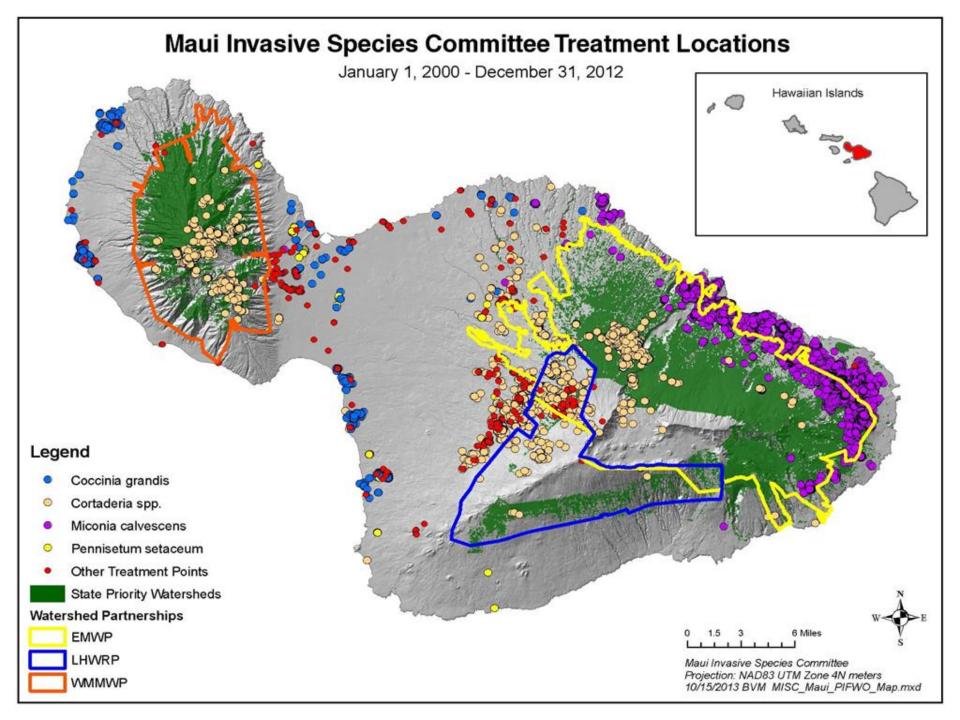
- Early 1990s: Maui Melastome Action Committee
- 1995:
 - Coordinating Group on Alien Pest Species
 - Big Island Melastome Action Committee
- 1999:
 - Maui Invasive Species Committee
 - Big Island Invasive Species Committee
- 2000: O'ahu Invasive Species Committee
- 2001: Kaua'i Invasive Species Committee
- 2002: Moloka'i Invasive Species Committee
- 2003: Hawai'i Invasive Species Council

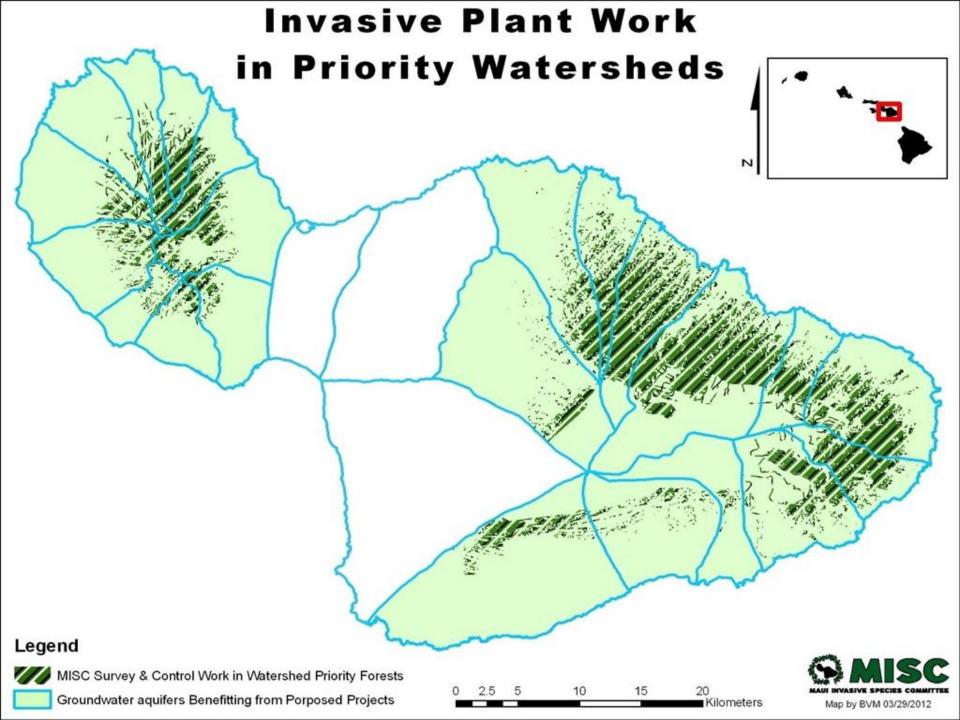
Key Elements:

- Trained Staff: 77 across the islands most field
- Annual total budget: \$4.3 million
 - 1/3 state, county, federal
 - Varies by island
- Flexibility in operations
 - Multiple species
 - Ground and aerial
 - Remote field sites
- Science-based, data-driven

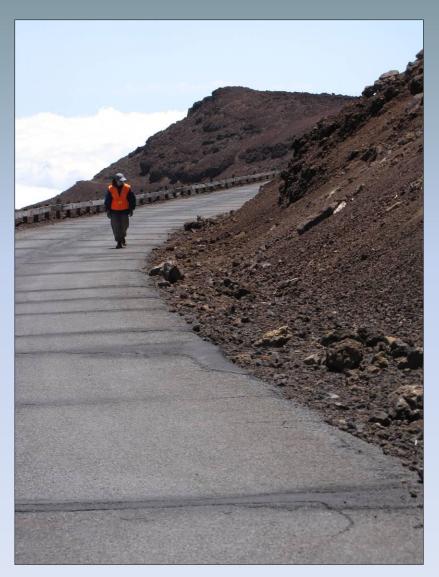








The ISCs work from the mountain...



...to the sea



on plants...



...and plant diseases



animals...



invertebrates...



in backyards...



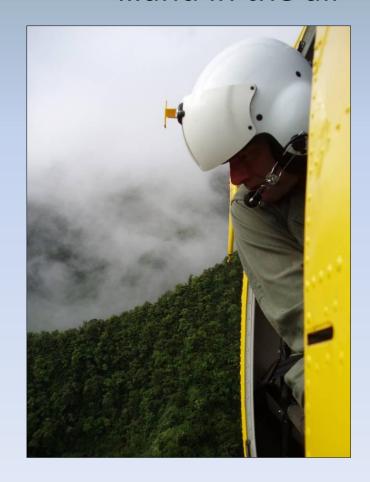
...and wildlands



on the ground...



...and in the air



ISCs work to stop invasive species from becoming widely established by conducting surveys at:

- nurseries & botanical gardens
- along roadsides
- at remote landing zones





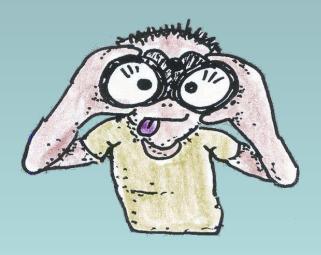
Eradications / Containment / Detection:

- 18 single-island plant species eradications
- 9 plant targets en route for eradication
- Coqui frogs eradicated from Kaua'i, O'ahu
 - 12/17 coqui population centers on Maui
 - 3 interceptions on Moloka'i
 - Coqui-free certification program Maui County
- Veiled chameleons below detectable levels Maui
- Miconia contained on all but Big Island
- First mongoose confirmed on Kaua'i
- Roadside and nursery surveys



Early Detection: Working with the Public

- Workshops
- Informative guide
- Contact information







Snake Sightings & Reports on Maui call: HDOA office:

873-3962 from 7:45am to 4:30pm 872-3848 from 4:30pm to 10:00pm After 10pm, on holidays, weekends, & furlough days:

Maui Police Department * 244-6400 (non-emergency)

*MPD will contact the Snake Response Team

Engaging the next generation...



& teaching the teachers



Hō'ike o Haleakalā Curriculum

High school science curriculum designed by Maui teachers and field biologists





RAIN FOREST



COASTAL



MARINE



Unit Beach Today, Gone
1 Tomorrow?

Unit Coastal

Connections

Unit Anchialine
3 Detectives

Unit Fire Ants And The 4 Future of Maui Wetlands Unit Coastal Issues In
5 The News

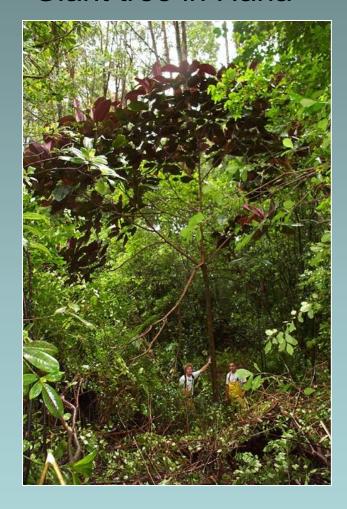
Activity #1 Finding the Little Fire Ant

Activity #2 Red Imported Fire Ant Prevention and Quick Response Plan

Activity #3 Race to the Wetlands Game



Giant tree in Hāna



Miconia all the way to the sea: Tahiti



Most Important Element: Partnerships





The Invasive Species Committees are projects of the University of Hawaii- Pacific Cooperative Studies Unit.

