CARE Committee

From: Laramee, Leah J <Leah.J.Laramee@hawaii.gov>

Sent: Tuesday, November 16, 2021 2:34 PM

To: Lesley J. Milner

Cc: CARE Committee; Levins, Sara D; Case, Suzanne D

Subject: Chair Suzanne Case Presentation

Some people who received this message don't often get email from leah.j.laramee@hawaii.gov. Learn why this is important

Aloha Lesley,



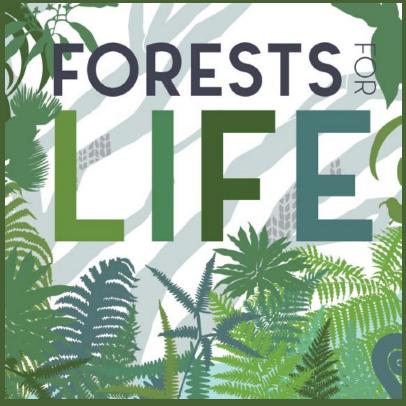
Here is a link to Chair Case's presentation for tomorrow's panel discussion on Greenhouse Gas Emission Reduction.

Please let me know if you have any questions or issues accessing the file.

Aloha,

Leah Laramee Natural Resource Planner Division of Forestry and Wildlife Department of Land and Natural Resources 808 895 1477

Carbon Sequestration



Suzanne Case Chair

State of Hawai'i epartment of Land and Natural Resources











o%Human
Footprint









52%

Human

Footprint
>2.1M acres



Figure ES-2: Hawaii GHG Emissions by Sector (1990, 2007, 2010, 2015, 2016, and 2017)



Figure 5-3: 2017 AFOLU Removals by Carbon Sink Landfilled Yard Trimmings and Food Scraps 2% **Urban Trees** 23% Forest Carbon 75%

Source: Hawaii Greenhouse Gas Emissions Report for 2017

DLNR Sequestration Priorities

- ♦ Protect existing forests
- ♦ Plant more trees
- ♦ Conserve more land





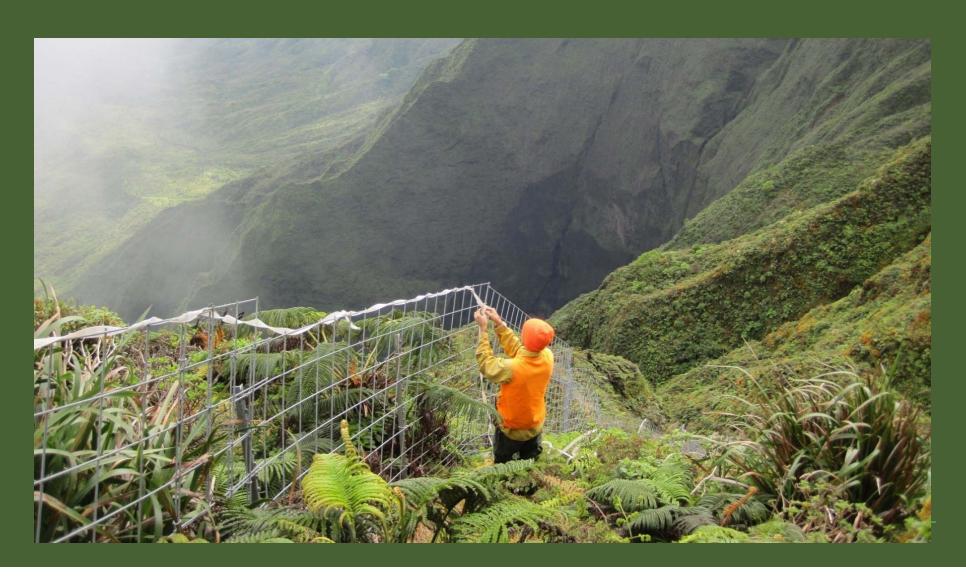
Estimating Carbon Sequestration Potential

- Contracted the development of a Carbon Sequestration Potential Index (CSPI) for 257 DLNR conservation land management units located across the main Hawaiian Islands.
- The CSPI Identifies areas with high potential to respond to restoration
- The CSPI also identifies areas better suited for protection.

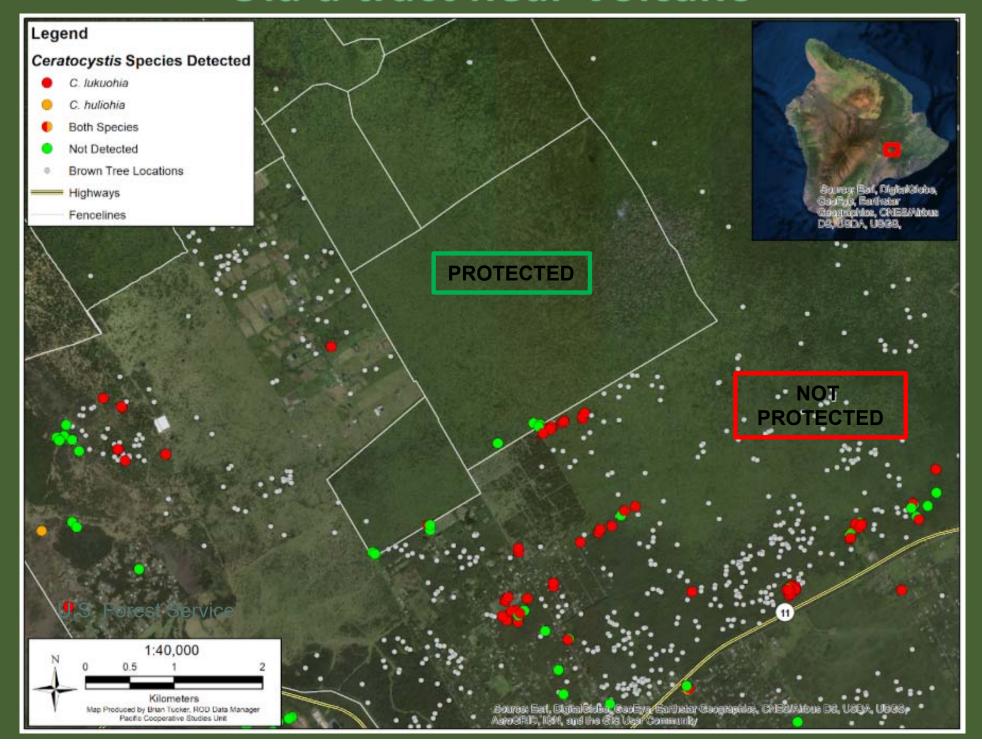


Protect existing forests

- Conservation Fences
- Ungulate Control
- ♦ Forest health (ROD)



Ola'a tract near Volcano

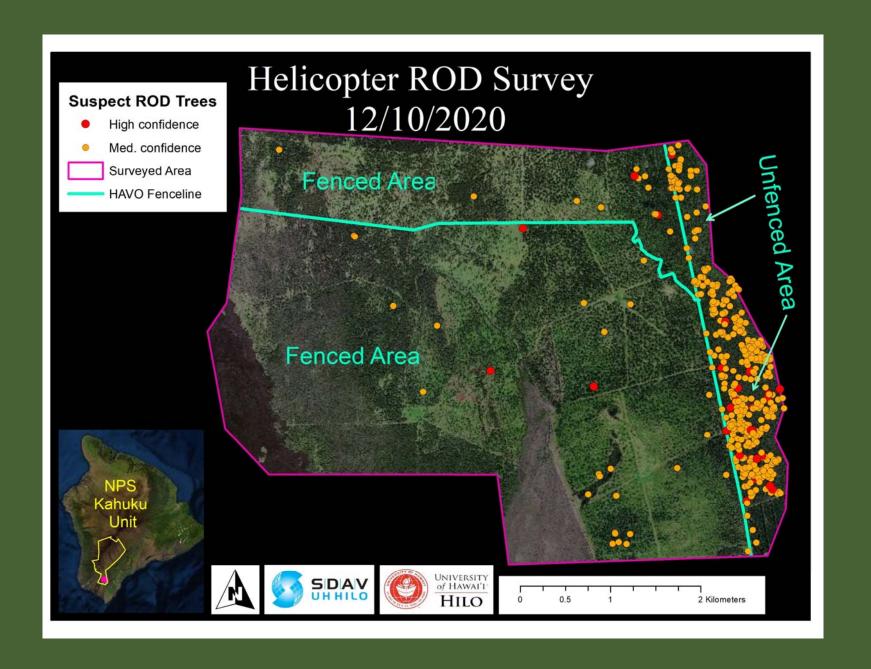






Cattle and sheep rubbed off bark, allowing black ROD fungus to infect and kill this 'Ohi'a tree

Dying 'Ohi'a trees mapped in aerial surveys (Photo: Dr. Ryan Perroy)



Conserve through legal protections

- 46,000 Acres
- Acquisitions
- Conservation Easements





Plant more trees

- trees annually
- ♦ Current Capacity is 50,000
 ♦ Potential to plant many more.



Challenges

- ♦ Funding
 - ♦ High cost of Fences
 - ♦ High land values
- ♦ Nursery capacity
- ♦ Biosecurity
- ♦ Maintenance
 - Ongoing funding to care for trees and fencelines.



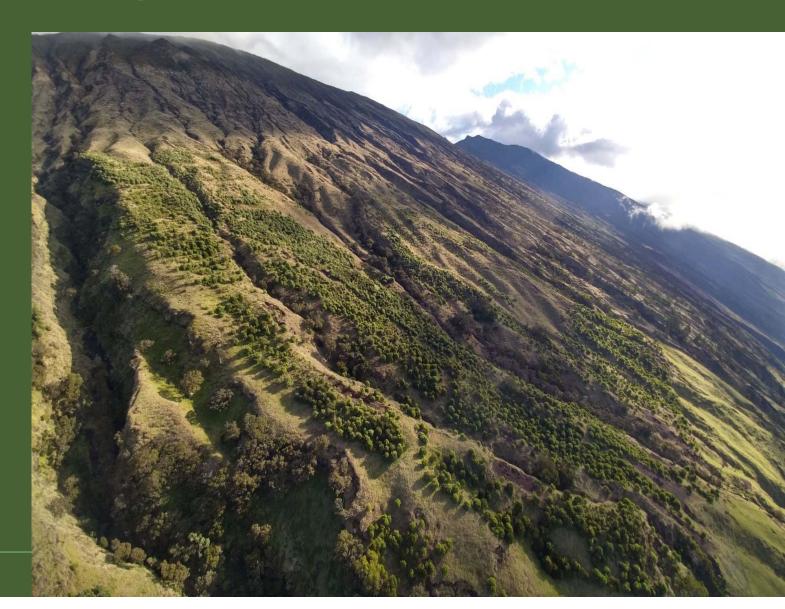
Successes

- Highly competitive for federal funding
- ♦ 2021: \$5 Million for partnership tree planting and invasive species control from USDA
- ♦ High survivor rate
 - ♦ 90% survivorship in many areas
- ♦ Strong partnerships
 - ♦ Watershed Partnerships
 - **⋄** Invasive Species Committees

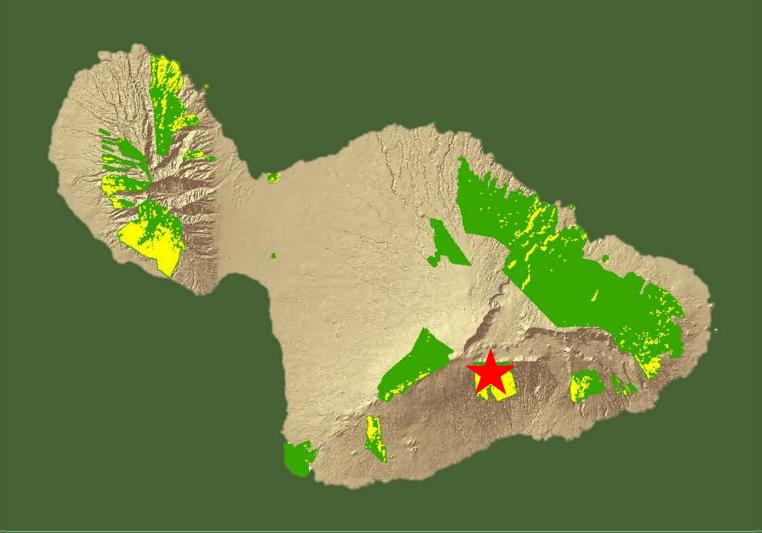


Landscape reforestation

- 12 species of forest tree species
- 250,000 trees planted last 4 years

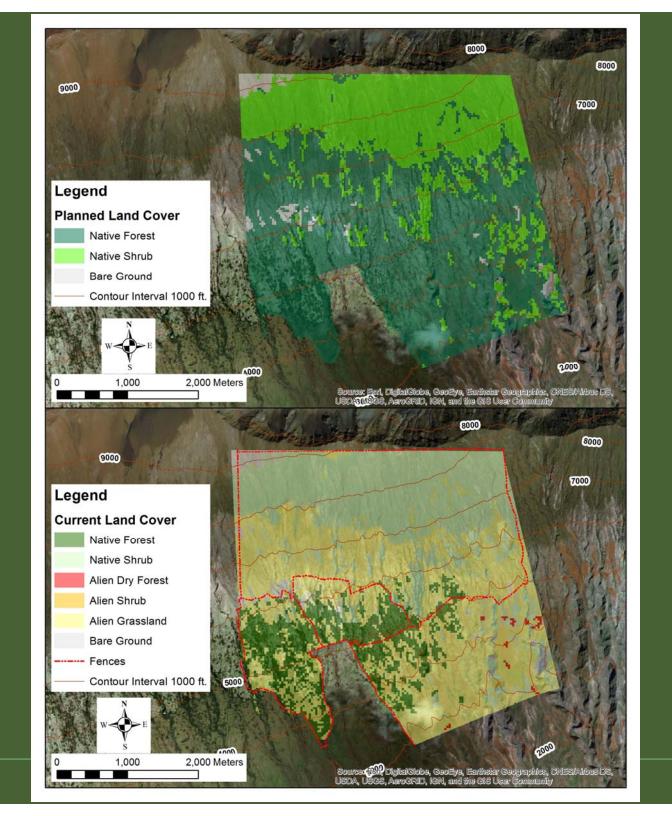


Kahikinui/Nakula Forest Carbon Project

















Mahalo!

