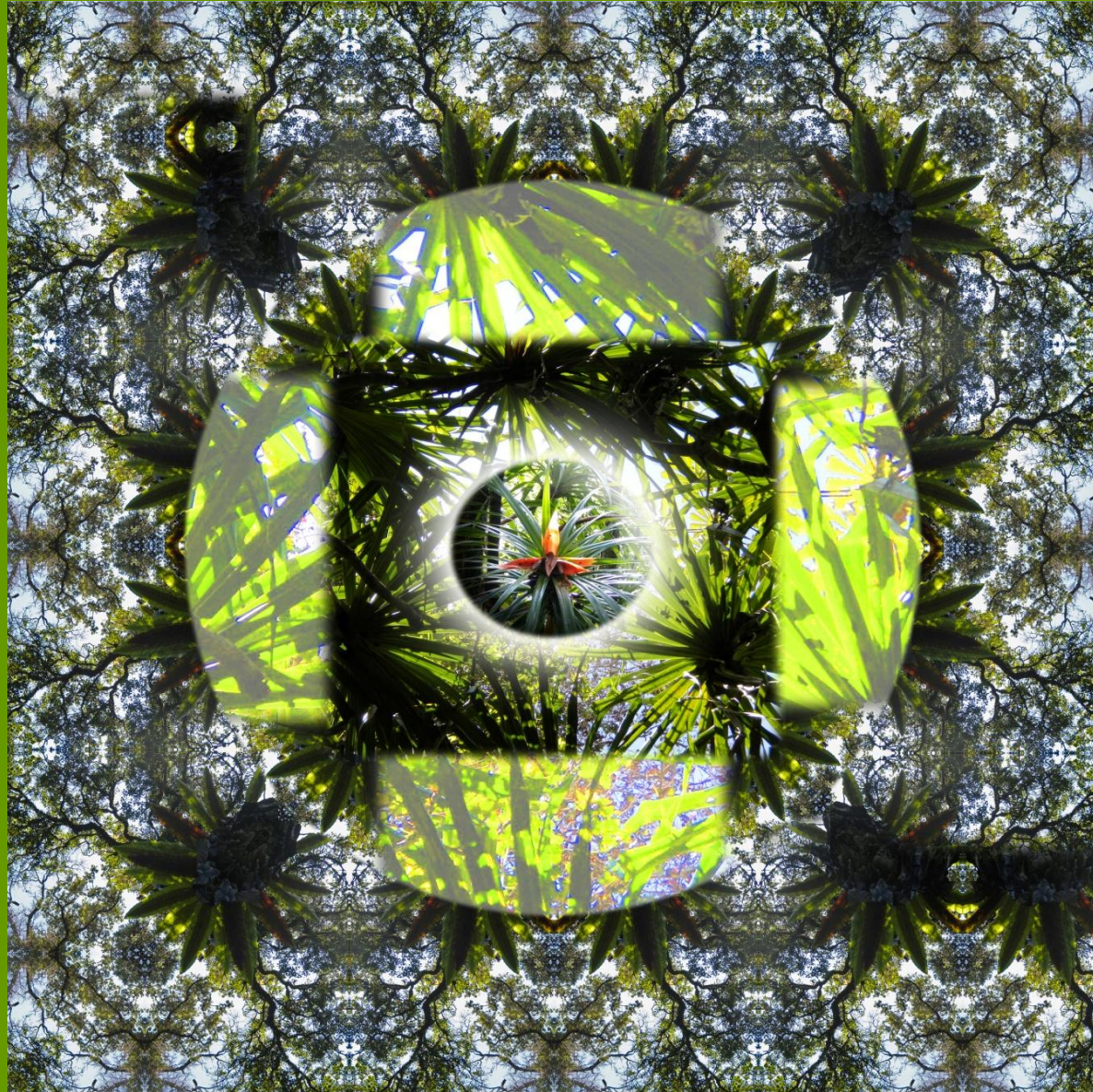


Keau'ohana Native Rainforest Restoration



Project of non-profit 'Malama O Puna'

**Supported by Legislature of the State of Hawaii/DLNR
County contingency funds also awarded**





**Largest and most intact native lowland wet forest remaining (< 1,000 ft)
in State of Hawai'i**

A unique reservoir for rare native biodiversity;
One of 5 State Forest Reserves in Puna District set aside for conservation





Most optimal critical habitat remaining
for the endangered
ha'iwale (*Cyrtandra nanawalensis*)

June 2014 Keauohana Rainforest Restoration Project began



June 2014 – June 2015 Fiscal Year:

Monthly work parties 900 Volunteer hrs.

Independent trail development days 860 Volunteer hrs.

Total Volunteer Hours: 1,560





In June 2015 hired crew for systematic restoration efforts

Control of Invasive Species:



Mostly hand-pulling







Large compost piles to consolidate and kill weeds



Worse Pests:



Clidemia hirta
(Koster's Curse)





Strawberry guava
(waiawi)



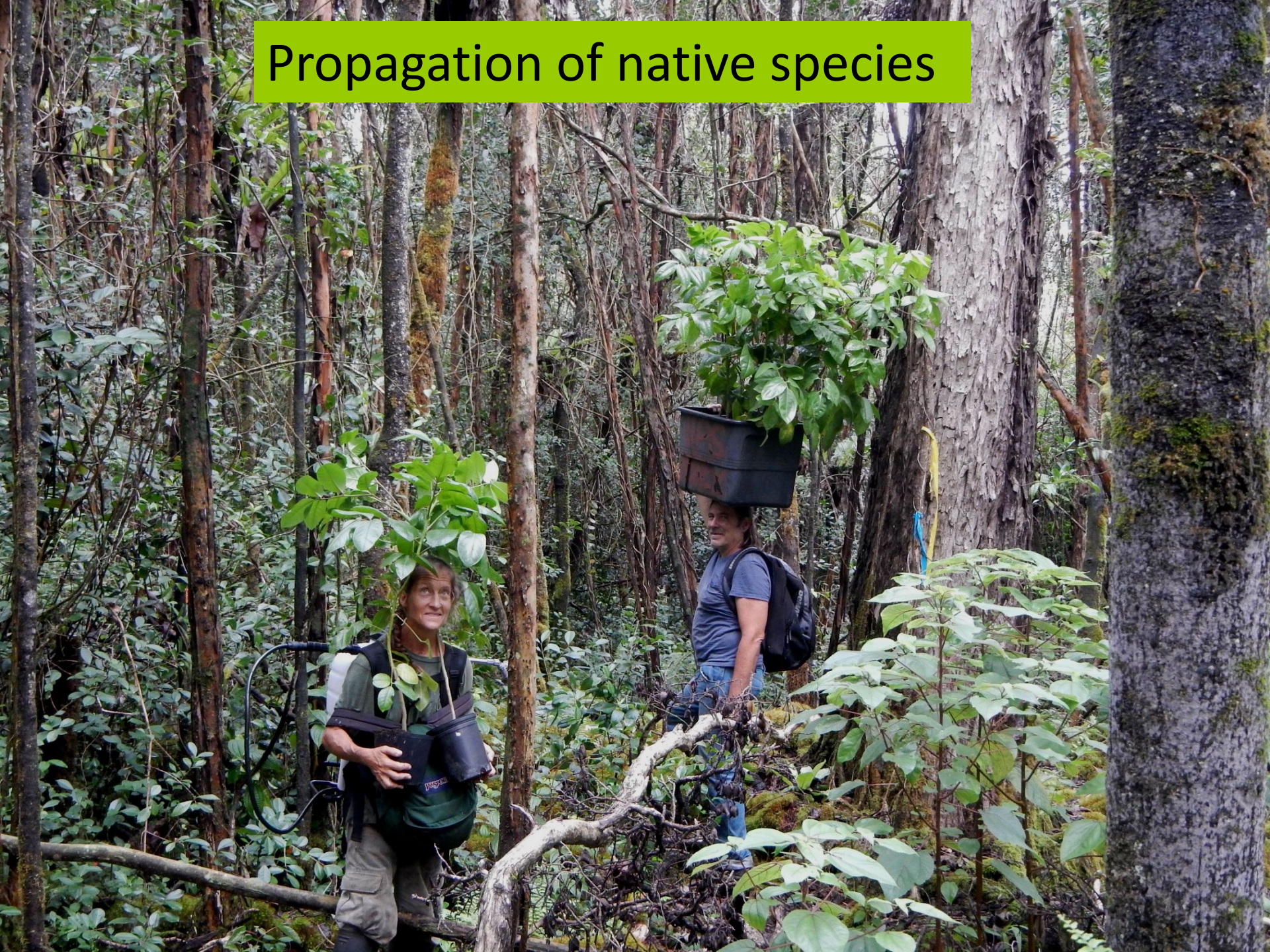


Control treatment of all larger waiawi stems

Spray treatments of small defined areas



Propagation of native species





Canopy species: 'Ohe (*Tetrapasandra hawaiiensis*)



Native plant nursery in Koa'e/ kapoho

By June of 2016, completed primary goal of treating all invasive spp.
Total of ~30 acres of most intact and biodiverse forest in Keauohana



Total number of individuals treated per species in FY:

- *Psidium cattleianum* (waiawi): > 932,640
- *Clidemia hirta* (Koster's curse): > 756,183
- *Paederia scandens* (pilau or kukae maile): > 95,921
- *Melastoma septemnerium*: > 52,775
- *Rubus rosifolius* (thimbleberry): > 15,329
- *Plectranthus scutellarioides* (coleus): > 37,159
- *Crassocephalum crepidioides* / *Erechtites valerianifolia*:: >34,503
- *Begonia*: > 37,156
- Polynesian Yam: > 13,324
- *Melochia umbellata*; *Falcataria mollucana*,
- *Cecropia obtusifolia*, *Trema orientalis*: > 1,444

*** Does not include volunteer day efforts**

Educating and inspiring numerous school groups with hands-on educational opportunities is critical to the health and future of Hawaii's natural environment



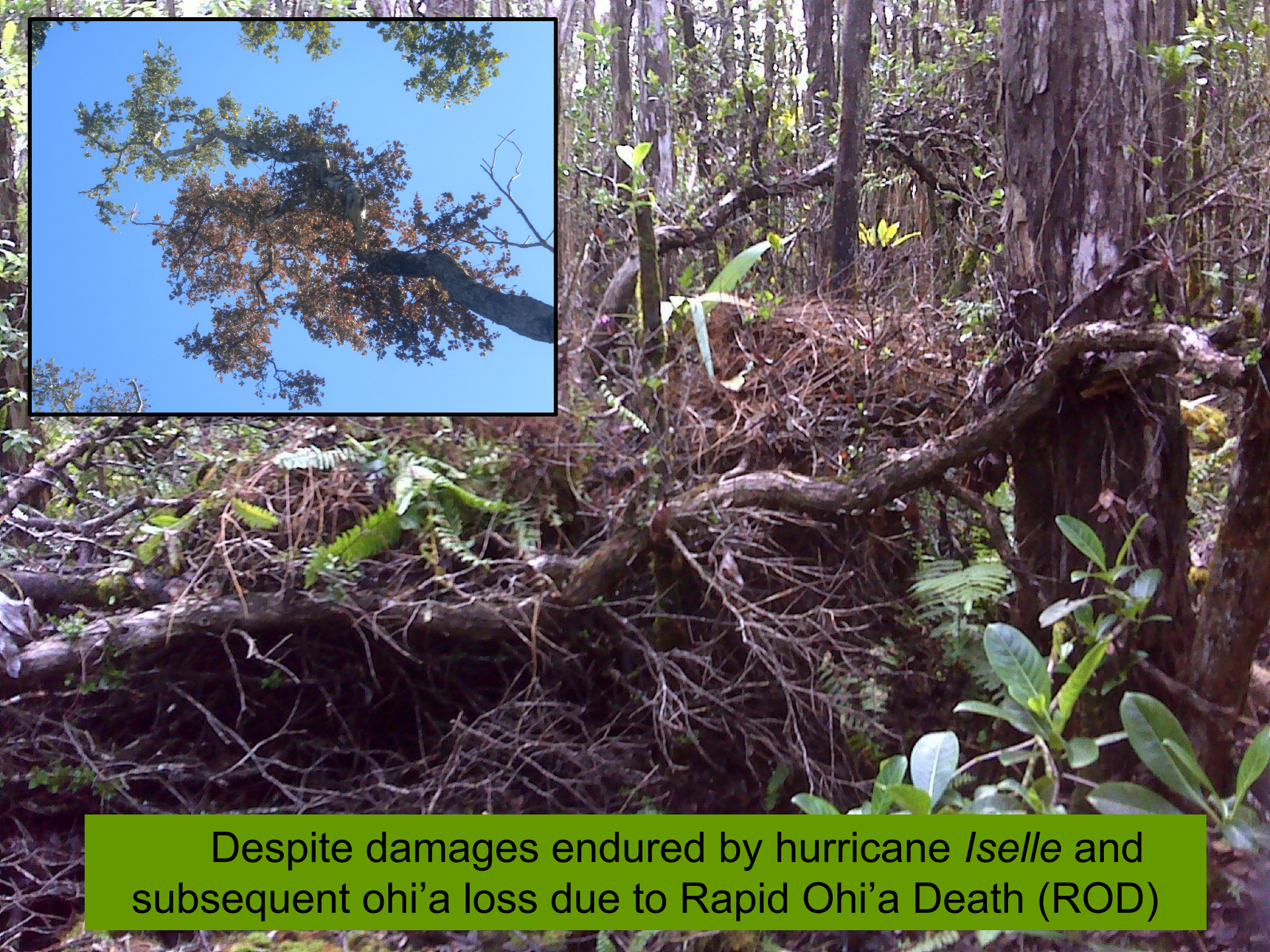
Keaau Middle School



PIPES Program at the Hawaii Community College

HAAS Charter School





Despite damages endured by hurricane *Isele* and subsequent ohi'a loss due to Rapid Ohi'a Death (ROD)

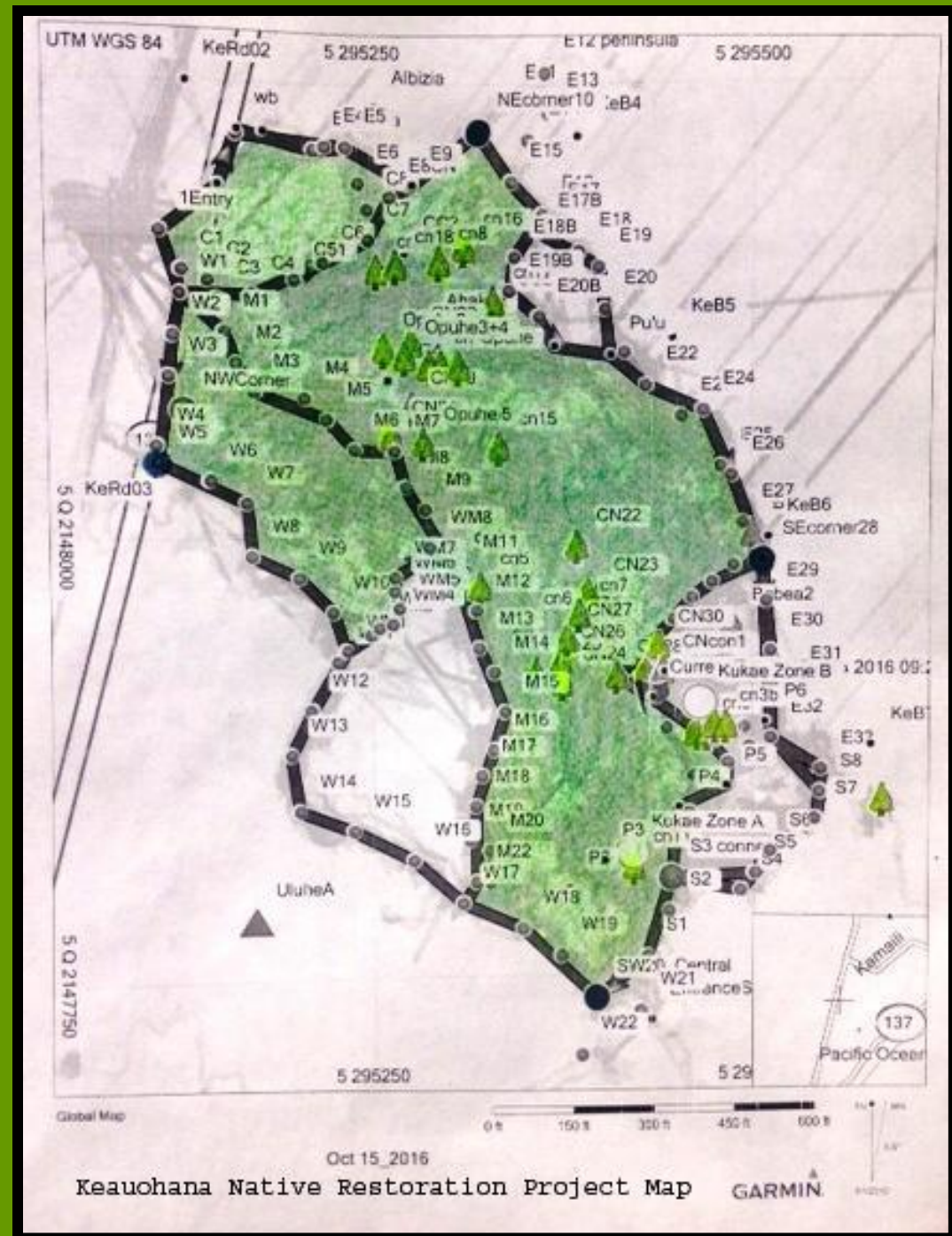


Keau'ohana responding very well to restoration efforts



Presently undergoing the second pass
to eliminate numerous invasive seedlings before reaching maturity

Project map:



Questions?

