

Conservation Department Program Updates

Community Meeting Summary: May 24, 2021



Conservation Department Mission			Ungulate Mangement			
<p>“To build a sustainable future for Lāna‘i by preserving our culture, building economic opportunity, stewarding our lands, and investing in people.”</p>			PL Control Hunts	<ul style="list-style-type: none"> Goals: subsistence, herd management ~1,400 hunt-days, harvest ~1,000 deer 		
Native Species Protection and Monitoring	Invasive Species Removal and Control	Biosecurity – Prevent New Introductions	CGMA Control	<ul style="list-style-type: none"> Goal: Doe control 2020: 1,640 hunt-days, harvest 1,014 doe 		
<p>2020 – 2021 Conservation Highlights</p>			Population Modeling & Harvest Targets	<ul style="list-style-type: none"> 2013 population: ~17,000 axis deer 2021 population: ~25,000-35,000 deer Need to harvest ~38% of doe every year to keep herd same size! 		
<p>2020 – 2021 Conservation Highlights</p>			<p>2021 and beyond</p>			
Fenced 5 wild nā‘ū	<ul style="list-style-type: none"> Fewer than twenty plants on Lāna‘i 		Coordinating with DOFAW to increase doe harvest	Begin community control in Kuahiwi a Kai area		
Found 2 new hāhā	<ul style="list-style-type: none"> Doubled known plants in the wild! 		Begin installing ungulate management fences: Kuahiwi a Kai, Hulopo‘e and Pu‘u Pehe	Make it easier for community to utilize control deer w/ chiller		
Outplanted over 1,000 plants in 2020	<ul style="list-style-type: none"> Included 191 individuals of threatened or endangered species 		<p>Kuahiwi a Kai</p>			
ReTree Hawai‘i Arbor Day	<ul style="list-style-type: none"> Planted 100+ native plants at the Koa Forest including endangered nā‘ū and hala pepe. 		What is it?	Large scale restoration project on Lāna‘i’s windward slope, from mountains to the sea		
Discovered coffee berry borer with UH researchers	Completed fenced enclosure to protect ko‘oloa‘ula	Added cat’s claw and Cherokee rose to incipient weed list for eradication	Why do it?	Erosion and damage threatens Lāna‘i’s watershed, native plants and habitat, and reef and fishery		
<p>Found endangered band-rumped storm petrels (‘ake‘ake) nesting on the walls of Hauola Canyon – only ~4 other known locations in Hawai‘i.</p>			<p>Assessment & Baseline 2020 – 2021</p>		<p>On-the-Ground Restoration & Telling the Story 2021+</p>	
<p>...and much more!</p>			Landscape erosion mapping & LiDAR	Nearshore coral reef health	Deer population management	Hi‘i Predator-proof Fence (protect ‘ua‘u colony and habitat)
<p>‘Ua‘u Conservation</p>			Current vegetation map and change over last 18 years	Water quality monitoring w/school engagement	Ungulate fencing assessment & begin first fenceline	Erosion stabilization and pilot outplanting
Over 500 known burrows	Most activity around Hi‘i, Kūnoa, and Hauola		Hawaiian Petrel Monitoring Program Re-Design		Videos & stories of the land, history, science, change	
On average a greater than 30% year-over-year increase in activity	Over 200 percent increase in reproductive success!					