

Finally, seed collection, processing, and distribution will be carried out at seed orchards located on the island. Treatments and activities will be done in consultation with Maui DOFAW staff.

Oahu:

- Conduct quarterly maintenance of the 5-acre Halemano Koa/Sandalwood seed orchard. Maintenance will include the mowing and herbicide treatment of weeds (vendor will avoid controlling DOFAW-planted ground cover grasses with herbicide). Collect, summarize, and report on koa trial grow performance and survival data.
- Continue planning discussions for future larger-scale plantings with disease-resistant koa at Halemano with the Division's Oahu office and draft a short plan delineating roles.
- Work with Oahu branch staff to develop propagative material for the only remaining population of Koai'a on the island. Initial actions for this project will include conducting a site visit to view population and discuss strategies with DOFAW staff, grow out a limited number of seeds previously collected from the trees, and develop a propagation/protection plan for the stand in close collaboration with DOFAW staff.
- Koa Seed Protection: Continue to refine Integrated pest management strategy for koa seed protection to include trapping to monitor koa seed moth populations, moth mating disruption pheromones lures/ baits, Application Bio-insecticide by Drone Spray for precise application.
- Assist with conserving genetics from the only remaining population of koai'a on Oahu located in a DOFAW-managed Forest Reserve. The vendor will make a site visit with DOFAW staff to the stand with approx. 12 trees and assess tree health and availability for vegetative cuttings and/or air layers. The vendor will grow out a small number of seeds (approx. 200-250) collected by DOFAW and attempt propagating cuttings from those seedlings. Seedlings from seed and cuttings will be transferred to DOFAW when they are ready to be planted. Finally, the vendor will assist in developing a genetic conservation plan for koai'a on Oahu.

Kauai:

- Vendor will screen approximately 15 families of Kauai Koai'a for wilt resistance. The seeds will be collected from Kauai by DOFAW staff.

Project Coordination:

Continue to coordinate and plan expanded koa seed orchard project activities with DOFAW Forest Management Supervisors and their designated staff:

- Establish the necessary seed production capacity for statewide reforestation and restoration efforts.
- Develop an optimal approach for meeting immediate koa seed needs for DOFAW's state-wide reforestation and restoration objectives

- Advise DOFAW staff on seed orchard establishment and design for koa and other native species.
- Provide quarterly reports to DOFAW following each maintenance visit
- For geo-referenced Koa seed collection field data, the DOFAW Survey 123-koa for data recording and management will be utilized.
- Establish best management practices for siting and managing plant amplification projects such as seed orchards.

Specifications Contact:

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