

Albizia as a solution for climate change mitigation and sustainable agriculture

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Project Summary

This project will investigate the potential benefits of composted albizia (*Falcataria moluccana*) mulch applied to agricultural land in East Hawai'i Island. The biomass from this fast-growing, nitrogen-fixing tree contains a large amount of carbon and nitrogen. A management approach that takes unwanted biomass from albizia trees and applies it to cropland could yield a net environmental and/or economic benefit compared with status quo farming practices, while stimulating albizia removal efforts. If this approach is found to be economically viable, climate change mitigation and/or resilience could be a byproduct of agricultural activities.

Fig. 1. Mulching albizia in support of potential soil enrichment, climate change mitigation, and community resilience.



Fig. 2. A pile of mulched albizia ready to be spread across cropland.