Trees for improving profitability, sustainability, and resource conservation on farms and ranches

Field tours Wednesday, May 17 (Day 2)

1. Larry and Maxine Kunitake Farm
   Kona-style coffee farm with numerous fruit and nut trees (see species table reverse side)

2. Kamilo and Sinouvi Faleofa Farm
   Kona-style coffee farm with a Tongan flavor, including culturally important plants such as kava, pandanus, breadfruit, and ylang-ylang (see species table reverse side)

3. Hawai‘iki Agroforestry Project (Craig Elevitch)
   E-mail: cre@agroforestry.net
   Alley cropping in a jackfruit orchard to produce mulch for fertilizer (see project description reverse side)

4. Kona Blue Sky Coffee (Christian Twigg-Smith)
   E-mail: kbsky@aloha.net
   www.konablueskycoffee.com
   Diversified coffee plantation with various other crops and native ohia trees scattered throughout. Crops include, coffee, banana, macadamia nut, and avocado. Most areas herbicide-free.

5. Holualoa Kona Coffee Company (Desmond Twigg-Smith)
   E-mail: orders@konalea.com
   www.konalea.com
   Shade-grown coffee and reforestation. Certified Organic. Geese and sheep for weed control. On-site coffee processing and direct-marketing through on-farm store.

List of some useful species growing on farms of Larry Kunitake and Kamilo Faleofa

		Larry	Kamilo
Abelmoschus manihot	edible hibiscus		x
Aleurites moluccana	candlenut, kukui	x	
Alocasia macrorrhiza	giant taro		x
Annona muricata	soursop		x
Artocarpus altilis	breadfruit		x
Bauhinia sp.	orchid tree	x	
Cananga odorata	ylang-ylang		x
Carica papaya	papaya	x	x
Citrus spp.	citrus species		x
Cocos nucifera	coconut	x	x
Coffea arabica	coffee	x	x
Colocasia esculenta	taro		x
Cordyline terminalis	ti	x	x
Dimocarpus longan	longan	x	
Dioscorea spp.	yam	x	x
Fagraea berteroana	pua, puakenikeni	x	x
Ficus benjamina(?)	banyan	x	
Grevelia robusta	silver oak		x
Inga edulis	inga, ice cream bean	x	
Litchi sinensis	lychee	x	x
Macadamia integrifolia	macadamia nut	x	
Mangifera indica	mango	x	x
Manihot esculenta	cassava	x	x
Murraya koenigii	curry tree	x	
Musa spp.	banana	x	
Otatea acuminata	Mexican weeping bamboo	x	
Pacira aquatica	Malabar chestnut	x	
Pandanus tectorius	pandanus, screw pine		x
Passiflora quadrangularis	passion fruit		x
Persea americana	avocado	x	
Piper methysticum	kava		x
Plumeria rubra	frangipani, plumeria	x	
Prunus sp.	tropical peach	x	
Punica granatum	pomegranate	x	
Santalum album	sandalwood	x	
Sechium edule	chayote	x	
Spondias dulcis	vi tree		x
Syzigium malaccense	mountain apple, Malay apple	x	x

Hawai‘iki Agroforestry Project—Orchard Alley Cropping

Alley cropping in an orchard setting was studied during the period 1995–1997. Soil nutrient levels stayed the same, or improved (K, % total N) using the hedgerow prunings for mulch. Nutrients in the prunings applied as mulch contribute significant quantities of N and K, although the contribution of P in mulch is probably insufficient. Download the publications “A Guide to Orchard Alley Cropping—for fertility, mulch and soil conservation” and “Nitrogen Fixing Tree Start-up Guide” at www.agroforestry.net/pubs