

Impacts Case Study - Hawaii
 (comparison of effect of benchmark and treatment)
Conservation Effects Worksheet
Orchard - Macadamia
 (land use and crop)

Resource Setting: Pahala, Hawaii

Shallow soils over pahohoe.
 Moderate to steep sloes.
 Highly erodible.

Conservation Treatment:

Field Windbreaks (392)	Permanent Vegetative Cover (340)
Diversion (362)	Mulching (484)
Terrace system (600)	Filter Strips (393)
Grassed Waterways (412)	Pest Management (595)
Irrigation System (441)	Nutrient Management (590)
	Sediment Basin (350)

Resource Problems Before Treatment:

Sheet and rill erosion	Orchard trees planted in waterways
Gully erosion	Close tree spacing (orchard)
Nutrient and pesticide in runoff	Terraces not maintained
No vegetative cover within orchard	

IMPACTS	DECISIONMAKERS EVALUATION	
	(+ / -)	Comment
Terraces every 200 feet • Reduces soil loss by 50%	-	High construction cost
	-	High maintenance
	+	Not too much left
Establish Waterways • Removes trees within waterway	+	Less infield damage
• Eliminate gully	-	High cost of tree removal
• Wildlife Habitat	-	Less trees/acre
	+	Less pukas
	+	KESS
Plant vegetative cover • Reduce soil loss by 50%	-	Less harvest efficiency
• Increase spacing - remove every other row	+	
• Wildlife habitat	-	High cost of tree removal
	-	Lower sales value
Biological Control	+	Reduce pesticide runoff
	-	Research cost high
	+	Support bugs for a bug
Mowing	+	Reduce nutrient runoff
	-	Labor Intensive
	-	Equipment cost high
Comments: Evaluations made by the decision maker does not always reflect the views of SCS.		