

Treatment Option Case Study - Hawaii

(proposed management system)

Conservation Effects Worksheet

Orchard - Coffee

(land use and crop)

Resource Setting: Kealakekua, Hawaii

HUD Honuauulu very stony silty clay loam, 6 - 20% slopes.

Kainaliu Series, very stony & extremely stony silty clay loam, 12 - 20% slopes.

Conservation Treatment:

Cover and Green Manure Crop (340)

Pest Management (595)

Conservation Croppign Sequence (328)

Nutrient Management (590)

Grassed Waterways (412)

Resource Problems Before Treatment:

Sheet and rill erosion

Sedimentation

Minor gullyng

<p style="text-align: center;">ACTIONS (Kinds, Amounts, Timing)</p>	<p style="text-align: center;">EFFECTS (Effects of Continuing Bench System)</p>
<p>Cover Crop (340)</p> <ul style="list-style-type: none"> - Maintain minimum 60% grass cover (sod farming) <p>Grassed Waterway (412)</p> <ul style="list-style-type: none"> - Maintain swales in grass cover <p>Conservation Cropping Sequence (328)</p> <ul style="list-style-type: none"> - Maintain ground cover permanently - Mow ground cover - Fertilize ground cover to keep it green - Space rows minimum of 10 feet apart - Prune trees immediately after harvest or during semi-dormant period after harvest - Fertilize according to tissue and soil test results and UH recommendations - Spot spray tall grasses and broad leaf weeds with Paraquat plus, Glyphosate, Roundup, Fusilade 2000, Dowpon M. <p>Pest Management (595)</p> <ul style="list-style-type: none"> - Follow HITAHR Brief No. 061 - 'Chemical Weed Control in Coffee' <p>Nutrient Management (590)</p> <ul style="list-style-type: none"> - Follow Extension Service Information Sheet - '1961 Coffee Fertilizer Guide for Typical Mature Orchards in Kona' - Follow soil test results and recommendations by Extension Service 	<p>RMS installed</p> <ul style="list-style-type: none"> - Soil loss 2 tons/acre - Less herbicides used - Improved soils structure - Reduced sedimentation - Reduced runoff <p>Chemicals - Coffee:</p> <ul style="list-style-type: none"> - Paraquat - Glyphosate - Dalapon - Fluazifop
<p>Comments: R = 350, L = 100, S = 14%</p>	