

Benchmark Case Study - Hawaii
 (present management system)

Conservation Effects Worksheet
Orchard - Macadamia
 (land use and crop)

Resource Setting: Pahala, Hawaii

Shallow soils over pahoehoe.
 Moderate to steep slopes.
 Highly erodible.

Present Management System:

No vegetative cover.	Terrace system
Windbreaks planted (3 row) every 500-ft.	Irrigation system
Diversion ditches spaced 500 to 800 feet apart.	Debris basin
Grassed waterways.	

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	

<p style="text-align: center;">ACTIONS (Kinds, Amounts, Timing)</p>	<p style="text-align: center;">EFFECTS (Effects of Continuing Bench System)</p>
<p>Close spacing (18 X 25) No vegetative cover - mechanical harvest Irrigation Windbreaks Herbicide Pesticide Terraces Debris Basin</p>	<p>Maximize tree/acre; better sales Reduce labor; mulching leaves Higher yields Reduce wind damage; wildlife habitat Control weeds; no ground cover; better harvest Reduce crop damage Reduce sheet and rill erosion Save dirt</p>
<p>Comments:</p>	