

Benchmark Case Study - Hawaii
(present management system)

Conservation Effects Worksheet
Grazing Land - Range
(land use and crop)

Resource Setting: Kamuela, Hawaii

Waimea Soils, 6 - 20 % slopes.

Present Management System:

Continuous grazing in one large paddock.

Resource Problems Before Treatment:

Overgrazing

Sheet and rill erosion

Gully erosion

Wind erosion

Sedimentation runoff

<p style="text-align: center;">ACTIONS (Kinds, Amounts, Timing)</p>	<p style="text-align: center;">EFFECTS (Effects of Continuing Bench System)</p>
<p>Cow/Calf Operation: 250 cow/calf operation in a 10,000 acre paddock. Overgrazing in upper portion of paddock Water distribution primary location in upper portion of paddock. Calf Crop: 80% Calf crop 200 calves per year</p>	<p>Grazing concentrated in upper portion of paddock. Sheet and rill erosion in overgrazed area. Gully erosion present in cow trails Undesirable plant species in the lower 10,000 acre paddock. 4 small gullies are enlarging Increased wind erosion Machinery <ul style="list-style-type: none"> - 30 hp tractor - 4X4 truck - Post hole auger Fuel 9 gal/week Labor conventional fencing \$0.70/foot <ul style="list-style-type: none"> - One person/600 AU - 40 hr wk. @ \$6/hr Yields Calf Crop 80% <ul style="list-style-type: none"> - 200 calves - Avg. 350 lbs/ \$0.60 = \$42,000 </p>
<p>Comments:</p>	