

## C-2-d. Plateau Benchmark System Worksheet

1	STATE	Hawaii
2	FIELD OFFICE	Lihue, Aiea, Hoolehua, Waimea and Hilo
3	MLRA	158
4	COMMON RESOURCE AREA (CRA)	<b>Plateau</b>
5	RESOURCE INTERPRETATIONS	<i>see Section II FOTG for interpretations</i>
5.1	SOIL	Kauai - Makaweli-Waiawa-Niu association Lihue-Puhi association Oahu - Molokai-Lahaina association Helemano-Wahiawa association Molokai - Molokai-Lahaina association Lanai - Molokai-Lahaina association Kalae-Kanepuu association Hawaii - Akaka-Honokaa-Kaiwiki association Kekake-Keei-Kiloa association Hanipoe-Maile-Puu Oo association Waimea-Kikoni association
5.2	WATER	Not Available
5.3	AIR	Not Available
5.4	PLANT	Not Available
5.5	ANIMAL	Not Available
5.6	HUMAN	Not Available
6	HYDROLOGIC UNIT	20010000 / 20040000 / 20050000 / 20060000 / 20070000
7	SYSTEM TEMPLATE LABEL	<b>PLA00</b>
8	SYSTEM NAME	<b>Plateau, Benchmark, State</b>
9	PLANNING PHASE	Benchmark
10	PLANNING LEVEL	Not Applicable
11	NRCS LANDUSE	CROP / RANG
12	EXISTING CONSERVATION PRACTICES	
		1. None 2. 3. 4. 5.

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13	SYSTEM NARRATIVE	
Representative Areas:	Kauai - Oahu - Molokai - Lanai - Hawaii -	Upper Kekaha, Makaweli, Eleele, Kalaheo, and Koloa Kaiaka-Waiialua Bay Watershed and Central Oahu Maunaloa and Hoolehua Lanai City and Central Plateau Puukapu and Hilo Bay
Land Use:	Cropland -  Rangeland -	Mainly current and former pineapple and sugarcane plantation lands. Former plantation lands converting to other agricultural uses such as truck crops, and orchards.  Some former plantation land converting to grazing.
Topography:	Upland plateau, except for Hilo Bay.	
Soils:	Kauai -  Oahu -  Molokai -  Lanai -  Hawaii -	<p><u>Makaweli-Waiawa-Niu association</u>: Deep, gently sloping to steep, well-drained soils that have a dominantly moderately fine textured or fine textured subsoil and shallow, steep and very steep, well-drained soils over basalt bedrock; on uplands.</p> <p><u>Lihue-Puhi association</u>: Deep, nearly level to steep, well-drained soils that have a fine textured or moderately fine textured subsoil; on uplands.</p> <p><u>Molokai-Lahaina association</u>: Deep, nearly level to moderately steep, well-drained soils that have a moderately fine textured or fine textured subsoil; on uplands.</p> <p><u>Helemano-Wahiawa association</u>: Deep, nearly level to moderately sloping, well-drained soils that have a fine-textured subsoil; on uplands; and deep, very steep well drained soils in gulches</p> <p><u>Molokai-Lahaina association</u>: Deep, nearly level to moderately steep, well-drained soils that have a moderately fine textured or fine textured subsoil; on uplands.</p> <p><u>Lanai - Molokai-Lahaina association</u>: Deep, nearly level to moderately steep, well-drained soils that have a moderately fine textured or fine textured subsoil; on uplands.</p> <p><u>Kalae-Kanepuu association</u>: Deep, gently sloping to moderately steep, well-drained soils that have a dominantly fine-textured subsoil; on uplands.</p> <p><u>Akaka-Honokaa-Kaiwiki association</u>: Deep, gently sloping to steep, moderately well drained and well drained soils that have a moderately fine textured subsoil; on uplands.</p> <p><u>Kekake-Keel-Kiloa association</u>: Very shallow, gently sloping to steep, well-drained organic soils over a'a or pahoehoe lava; on uplands.</p> <p><u>Hanipoe-Maile-Puu Oo association</u>: Deep, gently sloping to steep, well-drained soils that have a medium-textured to moderately fine textured subsoil; on uplands.</p>

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	Soils:	Hawaii - <u>Waimea-Kikoni association</u> : Very deep, nearly level to steep, well-drained soils that have a medium-textured to moderately fine textured subsoil; on uplands.
	Rainfall:	Kauai - Kauai - 25 - 60" per year. Oahu - Oahu - 30 - 85" per year. Molokai - Molokai - 15 - 35" per year. Lanai - Lanai - 20 - 35" per year. Hawaii - Hawaii - 20 - 40" per year in Puukapu/Lalamilo; 140 - 200" per year in Hilo.
	Special Concerns:	Watershed drains into waterbodies impaired by pollutants.
14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	1. Soil / Erosion / Sheet & Rill Erosion	1. Soil loss exceeds acceptable tolerance level. Sheet & rill erosion estimated at _____ tons/acre/year.
	2. Soil / Erosion / Wind Erosion	2. Land is scoured by wind.
	3. Soil / Erosion / Ephemeral Gully	3. Gullies develop after rainfall events.
	4. Soil / Erosion / Classic Gully	4. Gullies are increasing in depth and width.
	5. Soil / Erosion / Streambank Erosion	5. Stream banks and bottoms are not stabilized.
	6. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	6. Soil contains little organic matter. Water infiltration is reduced.
	7. Soil / Condition / Soil Compaction	7. Soil is compacted and forms a plow pan within the root zone of the crop.
	8. Soil / Condition / Excess Chemicals in Soil	8. Pesticide residue buildup found in soil.
	9. Soil / Condition / Other (Chemistry)	9. Soil analysis shows excess acidity in topsoil.
	10. Water / Quantity / Runoff/Flooding	10. Floodwaters cause damage to cropland and residential areas.
	11. Water / Quantity / Irrigation Water Management	11. Distribution and application of existing water supplies are ineffective.
	12. Water / Quality / Pesticides in Groundwater	12. Pesticides have been detected by DOH in some groundwater wells.
	13. Water / Quality / Nutrients & Organics in Groundwater	13. DOH has detected nitrates in some drinking water wells.
	14. Water / Quality / Nutrients & Organics in Surface Water	14. According to DOH reports, state water quality standards have been exceeded for nutrients in some coastal waters.
	15. Water / Quality / Suspended Sediment & Turbidity in Surface Water	15. According to DOH reports, state water quality standards have been exceeded for turbidity in some coastal waters.