

## C-3-f. Plateau, Crop, Truck Options 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	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6	HYDROLOGIC UNIT	20010000 / 20040000 / 20050000 / 20060000 / 20070000
7	SYSTEM TEMPLATE LABEL	<b>PLA11</b>
8	SYSTEM NAME	<b>Plateau, Crop, Truck</b>
9	PLANNING PHASE	Non-Benchmark
10	PLANNING LEVEL	RMS
11	NRCS LANDUSE	CROP
12	PLANNED CONS. PRACTICES	<i>enter code / name of practice</i>
	1. 324	Deep Tillage
	2. 327	Conservation Cover
	3. 328	Conservation Crop Rotation
	4. 330	Contour Farming
	5. 340	Cover Crop
	6. 344	Residue Management
	7. 362	Diversion
	8. 380	Windbreak / Shelterbelt Establishment
	9. 386	Field Border
	10. 393	Filter Strip
	11. 412	Grassed Waterway
	12. 422 A	Herbaceous Wind Barriers
	13. 430 DD	Irrigation Water Conveyance, Pipeline, High- Pressure, Underground, Plastic
	14. 441	Irrigation System, Microirrigation
	15. 449	Irrigation Water Management
	16. 484	Mulching
	17. 560	Access Road
	18. 580	Streambank and Shoreline Protection
	19. 586	Stripcropping, Field
	20. 589 B	Cross Wind Stripcropping
	21. 590	Nutrient Management
	22. 595	Pest Management
	23. 600	Terrace
	24. 638	Water and Sediment Control Basin
13	SYSTEM NARRATIVE	<i>Describe how the practices work together as a system</i>
	This former sugarcane land is being converted to diversified agriculture. Truck crops include: cucumbers, potatoes, tomatoes, watermelon, corn, string beans, lettuce, head cabbage, root ginger, and dryland taro. The following recommended conservation practices will reduce erosion, improve the condition of the soil, and prevent the degradation of ground and coastal waters.	

### C-3-f. Plateau, Crop, Truck Options Worksheet

14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil / Erosion / Sheet & Rill Erosion	1. Sheet & rill erosion will be reduced to an acceptable soil loss tolerance level of 5 tons/acre/year or less.	1. Productive topsoil will not erode at an accelerated rate. Soil loss is reduced by ___ tons/acre/year.
	2. Soil / Erosion / Wind Erosion	2. Amount and velocity of wind will be reduced in treated area.	2. Soil loss from wind is minimized. Also, a reduction in wind will conserve moisture.
	3. Soil / Erosion / Ephemeral Gully	3. Gullies and washouts will occur less frequently with installation of proposed treatment.	3. Clean-up cost after rainfall events will be reduced. Crop losses from washouts will be minimized.
	4. Soil / Erosion / Classic Gully	4. Formation of new gullies will be minimized. Existing gullies will be reshaped and treated.	4. Runoff water will flow at a safe and non-erosive rate. Crop loss from gullying is reduced.
	5. Soil / Erosion / Streambank Erosion	5. Streams will carry runoff water without eroding.	5. Farmable area is not reduced by sloughing of streambanks.
	6. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	6. Proposed management techniques will enhance soil tilth.	6. General soil health will improve condition for optimum crop growth.
	7. Soil / Condition / Soil Compaction	7. Plow pans will be broken up to improve water infiltration and allow better root penetration.	7. Growing conditions will improve and crop production will increase.
	8. Soil / Condition / Excess Chemicals in Soil	8. Risk of contamination from pesticides is evaluated.	8. Pesticides are properly applied to prevent degradation of water resources.
	9. Soil / Condition / Other (Chemistry)	9. Management practices will alter soil pH.	9. Favorable soil pH will increase crop yields.
	10. Water / Quantity / Runoff/Flooding	10. Water is managed to properly discharge runoff.	10. Cost of crop and property damage will be reduced.
	11. Water / Quantity / Irrigation Water Management	11. Designed irrigation system will efficiently distribute water to crops.	11. Water is conserved and crop production will increase.
	12. Water / Quality / Pesticides in Groundwater	12. A pest management plan will assess the risk of further groundwater contamination.	12. Pesticides will be properly managed and used to minimize groundwater contamination.
	13. Water / Quality / Nutrients & Organics in Groundwater	13. Risk of contamination from nutrients is evaluated.	13. Fertilizer and soil amendments are properly applied to avoid leaching.
	14. Water / Quality / Nutrients & Organics in Surface Water	14. Potential for contamination from nutrients will be evaluated.	14. Nutrients are properly applied according to soil and plant tissue analysis.
	15. Water / Quality / Suspended Sediment & Turbidity in Surface Water	15. Amount of sediment in runoff water is minimized.	15. Effects from suspended sediment and turbidity to aquatic habitat, recreation waters, and other downstream waterbodies are minimized.

### C-3-f. Plateau, Crop, Truck Options Worksheet

CRA	SYSTEM TEMPLATE LABEL		
15	* QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no (X)</i>		
	1. Sheet & Rill Erosion	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	2. Wind Erosion	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	3. Ephemeral Gully	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	4. Classic Gully	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	5. Streambank Erosion	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	6. Tilt, Crusting, Infiltration, Organic Matter	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	7. Soil Compaction	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	8. Excess Chemicals in Soil	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	9. Soil Condition - Other (Chemistry)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	10. Runoff/Flooding	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	11. Irrigation Water Management	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	12. Pesticides in Groundwater	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	13. Nutrients & Organics in Groundwater	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	14. Nutrients & Organics in Surface Water	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	15. Suspended Sediment & Turbidity in Surface Water	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

\* Provides an indication that the resource quality criteria will be met.