

C-3-a. Coastal Flats / Bottom Land, Crop, Truck Options Worksheet

1	STATE	Hawaii
2	FIELD OFFICE	Lihue, Aiea, Hoolehua, and Waimea
3	MLRA	163
4	COMMON RESOURCE AREA (CRA)	Coastal Flats/Bottom Land
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	2001000 / 20050000 / 20060000 / 20070000
7	SYSTEM TEMPLATE LABEL	CFA11
8	SYSTEM NAME	Coastal Flats/Bottom Land, Crop, Truck
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. 342	Critical Area Planting
	7. 344	Residue Management
	8. 350	Sediment Basin
	9. 362	Diversion
	10. 380	Windbreak / Shelterbelt Establishment
	11. 386	Field Border
	12. 393	Filter Strip
	13. 412	Grassed Waterway
	14. 422 A	Herbaceous Wind Barriers
	15. 430 DD	Irrigation Water Conveyance, Pipeline, High Pressure, Underground, Plastic
	16. 441	Irrigation System, Microirrigation
	17. 442	Irrigation System, Sprinkler
	18. 449	Irrigation Water Management
	19. 466	Land Smoothing
	20. 472	Use Exclusion
	21. 484	Mulching
	22. 560	Access Road
	23. 580	Streambank and Shoreline Protection
	24. 590	Nutrient Management
	25. 595	Pest Management
	26. 600	Terrace
	27. 644	Wildlife Wetland Habitat Management
13	SYSTEM NARRATIVE	<i>Describe how the practices work together as a system</i>
	<p>The proposed conservation practices will be integrated into truck crop operations to address identified resource concerns. The conservation system will help to reduce soil erosion, improve soil health, conserve water, protect surface and ground water quality, improve crop growth, and protect threatened & endangered species.</p>	

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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 / Streambank Erosion	2. Streams will carry runoff water without eroding.	2. Farmable area is not reduced by sloughing of streambanks.
	3. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	3. Proposed management techniques will enhance soil tilth.	3. General soil health will improve condition for optimum crop growth.
	4. Soil / Condition / Soil Compaction	4. Plow pans will be broken up to improve water infiltration and allow better root penetration.	4. Growing conditions will improve and crop production will increase.
	5. Soil / Condition / Excess Chemicals in Soil	5. Risk of contamination from pesticides is evaluated.	5. Pesticides are properly applied to prevent degradation of water resources.
	6. Water / Quantity / Runoff/Flooding	6. Water is managed to properly discharge runoff.	6. Cost of crop and property damage will be reduced.
	7. Water / Quantity / Soil Saturation	7. Excess water is managed to allow accessibility to crops.	7. Operation costs are minimized and selected crops can be grown.
	8. Water / Quantity / Irrigation Water Management	8. Designed irrigation system will efficiently distribute water to crops.	8. Water is conserved and crop production will increase.
	9. Water / Quality / Pesticides in Groundwater	9. A pest management plan will assess the risk of further groundwater contamination.	9. Pesticides will be properly managed and used to minimize groundwater contamination.
	10. Water / Quality / Nutrients & Organics in Surface Water	10. Potential for contamination from nutrients will be evaluated.	10. Nutrients are properly applied according to soil and plant tissue analysis.
	11. Water / Quality / Suspended Sediment & Turbidity in Surface Water	11. Amount of sediment in runoff water is minimized.	11. Effects from suspended sediment and turbidity to aquatic habitat, recreation waters, and other downstream waterbodies are minimized.
	12. Animal / Habitat / Threatened & Endangered Species	12. Food, water, and shelter of threatened or endangered species will not be affected by agricultural activities.	12. Threatened or endangered animals will have a suitable habitat for growth and reproduction.

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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. Streambank Erosion	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	3. Tilt, Crusting, Infiltration, Organic Matter	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	4. Soil Compaction	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	5. Excess Chemicals in Soil	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	6. Runoff/Flooding	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	7. Soil Saturation	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	8. Irrigation Water Management	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	9. Pesticides in Groundwater	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	10. Nutrients & Organics in Surface Water	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	11. Suspended Sediment & Turbidity in Surface Water	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	12. Threatened & Endangered Species (Animal)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

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