

C-3-i. Windward, Crop, Truck Options Worksheet

1	STATE	Hawaii
2	FIELD OFFICE	Lihue, Aiea, Hoolehua, Waimea and Hilo
3	MLRA	
4	COMMON RESOURCE AREA (CRA)	Windward
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 / 20050000 / 20060000 / 20070000
7	SYSTEM TEMPLATE LABEL	WWA11
8	SYSTEM NAME	Windward, 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. 322	Channel Vegetation
	2. 324	Deep Tillage
	3. 327	Conservation Cover
	4. 328	Conservation Crop Rotation
	5. 330	Contour Farming
	6. 340	Cover Crop
	7. 342	Critical Area Planting
	8. 344	Residue Management
	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. 442	Irrigation System, Sprinkler
	17. 449	Irrigation Water Management
	18. 466	Land Smoothing
	19. 472	Use Exclusion
	20. 484	Mulching
	21. 560	Access Road
	22. 580	Streambank and Shoreline Protection
	23. 586	Stripcropping, Field
	24. 589 B	Cross Wind Strip Cropping
	25. 590	Nutrient Management
	26. 595	Pest Management
	27. 600	Terrace
	28. 638	Water and Sediment Control Basin

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13	SYSTEM NARRATIVE	<i>Describe how the practices work together as a system</i>	
	Truck crops grown include: root ginger, dryland taro, corn, and watermelon. Recommended conservation measures will reduce erosion, protect water quality, and improve soil quality/health. Habitat of threatened & endangered plants and animals will be protected from degradation.		
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 / Ephemeral Gully	2. Gullies and washouts will occur less frequently with installation of proposed treatment.	2. Clean-up cost after rainfall events will be reduced. Crop losses from washouts will be minimized.
	3. Soil / Erosion / Classic Gully	3. Formation of new gullies will be minimized. Existing gullies will be reshaped and treated.	3. Runoff water will flow at a safe and non-erosive rate. Crop loss from gullying is reduced.
	4. Soil / Erosion / Streambank Erosion	4. Streams will carry runoff water without eroding.	4. Farmable area is not reduced by sloughing of streambanks.
	5. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	5. Proposed management techniques will enhance soil tilth.	5. General soil health will improve condition for optimum crop growth.
	6. Soil / Condition / Soil Compaction	6. Plow pans will be broken up to improve water infiltration and allow better root penetration.	6. Growing conditions will improve and crop production will increase.
	7. Soil / Condition / Excess Chemicals in Soil	7. Risk of contamination from pesticides is evaluated.	7. Pesticides are properly applied to prevent degradation of water resources.
	8. Soil / Condition / Other (Chemistry)	8. Management practices will alter soil pH.	8. Favorable soil pH will increase crop yields.
	9. Water / Quantity / Runoff/Flooding	9. Water is managed to properly discharge runoff.	9. Cost of crop and property damage will be reduced.
	10. Water / Quantity / Irrigation Water Management	10. Designed irrigation system will efficiently distribute water to crops.	10. Water is conserved and crop production will increase.
	11. Water / Quality / Pesticides in Groundwater	11. A pest management plan will assess the risk of further groundwater contamination.	11. Pesticides will be properly managed and used to minimize ground water contamination.

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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	12. Water / Quality / Nutrients & Organics in Surface Water	12. Potential for contamination from nutrients will be evaluated.	12. Nutrients are properly applied according to soil and plant tissue analysis.
	13. Water / Quality / Suspended Sediment & Turbidity in Surface Water	13. Amount of sediment in runoff water is minimized.	13. Effects from suspended sediment and turbidity to aquatic habitat, recreation waters, and other downstream waterbodies are minimized.
	14. Plant / Condition / Plant Productivity	14. NOT APPLICABLE.	14. NOT APPLICABLE.
	15. Plant / Management / Threatened & Endangered Plants	15. Area around the threatened or endangered plants will be excluded from operations.	15. Threatened or endangered plants will have a suitable growth environment undisturbed by agricultural activities.
	16. Animal / Habitat / Domestic Animal Water Requirements	16. NOT APPLICABLE.	16. NOT APPLICABLE.
	17. Animal / Habitat / Threatened & Endangered Species	17. Food, water, and shelter of threatened or endangered species will not be affected by agricultural activities.	17. Threatened or endangered animals will have a suitable habitat for growth and reproduction.

CRA	SYSTEM TEMPLATE LABEL																																																			
15	* QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no (X)</i>																																																			
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1. Sheet & Rill Erosion</td> <td style="width: 15%; text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="width: 25%; text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td>2. Ephemeral Gully</td> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td>3. Classic Gully</td> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td>4. Streambank Erosion</td> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td>5. 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* Provides an indication that the resource quality criteria will be met.