

C-3-c. Kona Upland, Grazing Options Worksheet

1	STATE	Hawaii	
2	FIELD OFFICE	Kealakekua	
3	MLRA	161	
4	COMMON RESOURCE AREA (CRA)	Kona Upland	
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	
7	SYSTEM TEMPLATE LABEL	KUA20	
8	SYSTEM NAME	Kona Upland, Grazing	
9	PLANNING PHASE	Non-Benchmark	
10	PLANNING LEVEL	RMS	
11	NRCS LANDUSE	NPAS	
12	PLANNED CONS. PRACTICES	<i>enter code / name of practice</i>	
	1. 314	Brush Management	
		Prescribed Burning	
	2. 338	Pond	
	3. 378	Fence	
	4. 382	Firebreak	
	5. 394	Use Exclusion	
	6. 472	Pasture and Hay Planting	
	7. 512	Pipeline	
	8. 516	Pond Sealing or Lining, Flexible Membrane	
	9. 521 A	Prescribed Grazing	
		Range Planting	
	10. 528 A	Access Road	
	11. 550	Animal Trails and Walkways	
	12. 560	Pest Management	
	13. 575	Watering Facility	
	14. 595	Water Harvesting Catchment	
	15. 614	Wildlife Upland Habitat Management	

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	16. 636 17. 645	
13	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>
	Elevation ranges from 3000 to 6000 feet above sea level. Slopes are generally from 0 to 40 percent. Grazing land is mostly composed of kikuyugrass. The proposed grazing management system will enhance forage quantity and quality while conserving soil, water, and range resources. Wildlife (doves, wild turkey, ring-necked pheasant, Eurasian skylark, Erckel's francolin), threatened and endangered species (Hawaiian hawk and Hawaiian owl), and cultural resources will also be protected.	

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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Water / Quantity / Runoff/Flooding	1. System installation should stabilize soils with vegetative cover and proper land shaping.	1. Cost of property damage will be reduced after landscape is stabilized.
	2. Water / Quantity / Soil Saturation	2. Excess water is managed to allow accessibility to grazing operations.	2. Operation costs are minimized.
	3. Water / Quantity / Inadequate Outlets	3. Water courses and outlets will be designed to safely carry runoff water.	3. Onsite and offsite damage from runoff is minimized.
	4. Plant / Condition / Plant Productivity	4. Implementation of a grazing management plan and installation of other appurtenant structures increase forage production.	4. Forage growth and production will increase. Animal weight gain and health will improve.
	5. Plant / Management / Threatened & Endangered Species	5. Identified threatened or endangered plants will be protected from disturbance by management.	5. Threatened or endangered plants will have a suitable growth environment undisturbed by agricultural activities.
	6. Animal / Habitat / Domestic Animal Water Requirements	6. Installation of pipeline and troughs will improve supply and distribution of water to meet livestock needs.	6. Improved water system may increase animal distribution and carrying capacity of grazing lands.
	7. Animal / Habitat / Threatened & Endangered Species	7. Threatened or endangered species will be protected from disturbance by agricultural activities, through proper management.	7. 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. Runoff/Flooding	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	2. Soil Saturation	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	3. Inadequate Outlets	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	4. Plant Productivity	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	5. Threatened & Endangered Plants	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	6. Domestic Animal Water Requirements	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	7. Threatened & Endangered Species (Animal)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

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