

HAYLAND

Conservation

Effects

Worksheet



Conservation Effects Worksheet Benchmark Management System

Name: Hayland Farmer	Address: Georgia
Resource Setting: 36.5 acre hay field.	Resource Problems Before Treatment: High potential for poor surface water quality
Benchmark: (Present Management System) 'Coastal' bermudagrass hay production	
Actions – Present Management (Kinds, amounts and timing)	Effects: (Effects of continuing the benchmark system)
<ul style="list-style-type: none"> ▪ Hay is cut 3 – 4 times per year during the spring/summer depending on precipitation ▪ There is no Nutrient Management Plan ▪ Poultry litter is applied throughout the year as it is available ▪ Poultry litter is not analyzed for nutrient content ▪ Soil testing is not a routine practice ▪ Wildlife Habitat Suitability Index is 0.13 	<ul style="list-style-type: none"> ▪ Hay yield 6 tons ▪ Hay species adapted to soils and climate ▪ Hay quality good for livestock production and health ▪ Undetermined amounts of nutrients applied throughout the year ▪ Soil pH not known ▪ High potential for phosphorus runoff and poor surface water quality ▪ Negligible soil erosion ▪ Air quality temporarily impaired by application of poultry litter (odors) ▪ Poor Habitat Suitability Index for wildlife (food and cover) results in infrequent turkey sightings
Comments:	

Conservation Effects Worksheet Treatment Options

Name Hayland Farmer	Address Georgia	Client ID	Field or Tract No.
Description of Treatment Option (With treatment management system) Hayland RMS Hayland production – ‘Coastal’ bermudagrass fertilized with poultry litter			
Treatment Option No. 1		Comparison of Effects of Benchmark and Treatment Option	
Actions – Proposed Management (Kinds, amounts, and timing)	Effects (Effects of conservation treatment)	Impacts	Decisionmaker Evaluation
<ul style="list-style-type: none"> ▪ 382 Fence ▪ 472 Use Exclusion ▪ 511 Forage Harvest Management ▪ 590 Nutrient Management ▪ 595 Pest Management ▪ 645 Upland Wildlife Habitat Management 	<ul style="list-style-type: none"> ▪ Nutrient Management results in proper timing, amount, and kind of nutrients being applied ▪ Livestock Exclusion prevents grazing of forage produced for stored feed ▪ Forage Harvest Management emphasizes proper cutting height and stage of maturity for harvesting high quality hay ▪ Upland Wildlife Habitat Management – planting of herbaceous-shrub border (20’ wide) between hay field and adjacent woods at a cost of \$100/acre ▪ Wildlife Habitat Suitability Index is 0.31 ▪ Air quality problems reduced with reduced poultry litter application ▪ Pest control with Pest Management 	<ul style="list-style-type: none"> ▪ Hay yield is maintained ▪ Excess nutrients are not applied ▪ Potential for impaired surface water quality is reduced ▪ Grazing is prevented ▪ Higher quality forage is harvested ▪ Desired hay species maintained by using proper cutting height ▪ Acreage is devoted to upland wildlife habitat ▪ Herbaceous-shrub border provides more diverse habitat for turkey ▪ Air quality is improved ▪ Pest infestations are reduced/eliminated ▪ Operation and maintenance will change 	

Pastureland – Conservation Effects Worksheet - 3

Name Hay Farmer	Address Georgia	Client ID	Field or Tract No.
Description of Treatment Option (With treatment management system) Hayand RMS Hayland production – ‘Coastal’ bermudagrass overseeded with small grains and fertilized with poultry litter			
Treatment Option No. 2		Comparison of Effects of Benchmark and Treatment Option	
Actions – Proposed Management (Kinds, amounts, and timing)	Effects (Effects of conservation treatment)	Impacts	Decisionmaker Evaluation
<ul style="list-style-type: none"> ▪ 382 Fence ▪ 472 Use Exclusion ▪ 511 Forage Harvest Management ▪ 512 Hay Planting ▪ 590 Nutrient Management ▪ 595 Pest Management ▪ 645 Upland Wildlife Habitat Management 	<ul style="list-style-type: none"> ▪ 10 tons hay yield ▪ No-till drill needed to overseed small grains into existing bermudagrass ▪ Nutrient Management results in proper timing, amount, and kind of nutrients being applied ▪ Livestock Exclusion prevents grazing of forage produced for stored feed ▪ Forage Harvest Management emphasizes proper cutting height and stage of maturity for harvesting high quality hay ▪ Upland Wildlife Habitat Management – planting of herbaceous-shrub border (20’ wide) between hay field and adjacent woods at a cost of \$100/acre ▪ Wildlife Habitat Suitability Index is 0.57 ▪ Air quality problems reduced with reduced poultry litter application ▪ Pest control with Pest Management 	<ul style="list-style-type: none"> ▪ Hay yield is increased by 4 tons ▪ Warm and cool-season forage production ▪ Excess nutrients are not applied ▪ Potential for impaired surface water quality is reduced ▪ Grazing is prevented ▪ Higher quality forage is harvested ▪ Desired hay species maintained by using proper cutting height ▪ Acreage is devoted to upland wildlife habitat ▪ Herbaceous-shrub border provides more diverse plant/insect food/cover sources for turkey ▪ Air quality is improved ▪ Pest infestations are reduced/eliminated ▪ Operation and maintenance will change 	