

SECTION III

HAY

PLANNING RESOURCE MANAGEMENT SYSTEMS (RMS)

Successful resource management on hayland is the correct application of a combination of practices that will meet the needs of the hayland ecosystem the soil, water, air, plant, and animal resources and the objectives of the land user.

The minimum criteria that must be met on hayland for each of the resource concerns is explained in Section III of the Field Office Technical Guide.

In planning a hayland Resource Management Systems (RMS), the vegetative management practice Forage Harvest Management is the foundation on which the RMS is built. **Forage Harvest Management** (proper cutting heights and timing is essential to the proper management of hayland.

- **Water Management** (449) is an **ESSENTIAL** practice when hayland is irrigated. Practices such as **Irrigation Systems**, **Irrigation Water Conveyance**, and **Irrigation Land Leveling** (464) may be **NEEDED** to complete the **RMS**.
- **Pest Management** (595) is **ESSENTIAL** when pests are control in the management unit.
- **Nutrient Management** (590) is **ESSENTIAL** when inorganic or organic nutrients are applied to the management unit.

All other practices planned on hayland are to either: (1) facilitate the application of the management and are identified as **DESIRABLE** practices, or (2) establish, renovate, more intensively manage, or accelerate changes in the hayland and are identified as **NEEDED** practices. These needed practices are planned when necessary to treat specific resource problems to meet the criteria for managing the soil, water, air, plant, and animal resources.

Resource Management System include combination of practices that are:

1. **ESSENTIAL** – **Forage Harvest Management** is essential to successful hayland management and is always planned in the RMS.
2. **NEEDED** - These practices are planned when necessary to establish, renovate or more intensively manage the hayland by treating specific resource problems to meet the RMS criteria.
3. **DESIRABLE** - These practices facilitate or enhance the vegetative management practices.

An **RMS** is developed by selecting a combination of the **ESSENTIAL**, plus the **NEEDED** and/or **DESIRABLE** practices, or both, whose combined effects will meet the criteria for each resource (soil, water, air, plant, and animal) and the objectives of the land user. The following is a list of **ESSENTIAL** and **NEEDED** and/or **DESIRABLE** practices applicable to hayland. The following list of practices is not all inclusive, there may be other practices added under **NEEDED** and/or **DESIRABLE**.

Table 1

ESSENTIAL HAYLAND PRACTICES		
Practice Name	Practice Code	Need
Forage Harvest Management	511	
Pest Management (<i>if pests are controlled</i>)	595	AND
Nutrient Management (<i>if fertilizer or manure is used</i>)	590	AND
Irrigation Water Management (<i>if irrigated</i>)	449	

Table 2

NEEDED and/or DESIRABLE Practices	
Practice Name	Practice Code
Access Road	560
Critical Area Treatment	342
Diversion	362
Fence	382
Grade Stabilization Structure	410
Irrigation Land Leveling	464
Irrigation Pit or Regulating Reservoir	522
Irrigation Storage Reservoir	436
Irrigation System	441, 442, 443, 447
Irrigation Water Conveyance	428 or 430
Irrigation Water Management	449
Land Clearing	460
Nutrient Management	590
Pasture and Hay Planting	512
Prescribed Burning	338
Sediment Basin	350
Structure for Water Control	587
Upland Wildlife Habitat Management	645
Waste Management System	
Water and Sediment Control Basin	638
Water Spreading	640
Wetland Wildlife Habitat Management	644
Windbreak/Shelterbelt Establishment (EQIP)	380

SECTION III
RESOURCE MANAGEMENT SYSTEMS GUIDANCE DOCUMENT

RESOURCE SETTING

MLRA 42 SD – 1 along the Rio Grande – Soils Gila CL, Anthony variant SLC, Aqua CL – Saline spots scattered throughout field. Low production fescue and needs weed control. Inadequate cover. Pheasant is wildlife of concern.

RESOURCE PROBLEMS

- SOIL: - Some sheet erosion and potential wind erosion – salinity problem
 WATER: - Inadequate irrigation, ground water contaminated
 AIR: - Potential dust from wind erosion
 PLANT: - Low production, low vigor, low fertility, weeds, need management
 ANIMAL: - Cover and shelter for wildlife lacking
 OTHER: - None identified

RMS #1	Prac-tice #	Soil		Water			Air		Plant					Animal	
		Erosion Water	Erosion Wind	Water Mgt (Irr)	Ground Water Contam		Airborn Particulates/Conveyance		Productivity	Health & Vigor	Estab, Growth Harv	Nutrient Mgt.	Pest Mgt.	Cover/Shelter for Wild/L	Food for Wild/L
Hayland Planting	512	+	+	+	+		+		+	+	+	0	+	+	
Forage Harvest Mgt	510	+	+	+	+		+		+	+	+	+	+	+	
Nutrient Management	680	N/A	N/A	N/A	+		+		+	+	+	+	+	+	
Irr. Land Leveling	464	+	0	+	+		0		0	0	0	0	0	0	
Irr. Water Management	449	+	+	+	+		+		+	+	+	+	+	+	
Irr. Systems (Surface)	443	0	0	+	+		0		0	0	0	0	0	0	
Wildlife Upld Hab Mgt	645	0	0	0	0		0		0	0	0	0	0	+	+

RMS #2

Forage Harvest Mgt	510	+	+		+	+		+		+	+	+	+	+	
Nutrient Management	680	N/A	N/A		N/A	+		+		+	+	+	+	+	
Irr. Land Leveling	464	+	0		0	0		0		0	0	0	0	0	
Irr. Systems (Surface)	443	0	0		+	+		0		0	0	0	0	0	
Irr. Water Management	449	+	+		+	+		+		+	+	+	+	+	
Wildlife Upld Hab Mgt	645	0	0		0	0		0		0	0	0	0	+	+
Sub-surface Drain	606	F	F		F	+		F		F	F	F	F	F	
Toxic Salt Reduction	610	0	+		+	+		+		+	+	+	+	+	

(+) positive effect (-) negative effect (0) none or negligible effect (f) facilitating practice (n/a) practice not applicable