

SECTION III

HEADQUARTERS

PLANNING RESOURCE MANAGEMENT SYSTEMS (RMS)

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

The minimum quality criteria that must be met on headquarters land for each of the resource concerns is explained in Section III- Quality Criteria of the Field Office Technical Guide (FOTG).

- **ESSENTIAL practices** must be included in the headquarters land resource management system regardless of production systems or site conditions.
- **NEEDED practices** are necessary to correct site-specific headquarters land resource concerns. Please note that **NEEDED** practices are no less important than **ESSENTIAL** practices when developing a resource management system.
- **DESIRABLE practices** are applied to enhance the resource base beyond the minimum quality criteria.

The management of runoff water and production water is the foundation on which the headquarters land management system is built.

- **Roof Runoff Management** (558) is **ESSENTIAL** (If structures with roofs are in the headquarters area.) because it is the mechanism by which runoff water from roofs and other impermeable surfaces is managed.
- **Manure and Wastewater Management and Storage (MHS) is considered NEEDED** (If confined livestock production practices occur in the headquarters area.) One of the following practices must be used: **Closure of Waste Impoundments (360), Composting Facility (317), Manure Transfer (634), Pond Sealing or Lining (521a, 521c), Waste Storage Facility (313), Wastewater Treatment Strip (635) and Waste Treatment Lagoon (359).**
- **Air temperature and movement, odor management and visual screening is considered NEEDED** (If air condition and visual screening will treat identified resource concerns. On or more of the following practices must be used: **Tree and Shrub Establishment (612), and Windbreak/Shelterbelt Establishment (380) and/or Windbreak/Shelterbelt Renovation (FT) (650)**

- **Irrigation Water Management (449)** is considered **NEEDED** when headquarters land 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 considered **NEEDED** when pests are managed in the management unit.
- **Nutrient Management (590)** is considered **NEEDED** when inorganic or organic nutrients are applied to the management unit.

There are other practices, which may be **NEEDED** to complement the client's production practices and site conditions. They are **Composting Facility (317)**, **Diversion (362)**, **Fence (382)**, **Filter Strip (393A)**, **Firebreak (394)**, **Heavy Use Area Protection (561)**, **Manure Transfer (634)**, **Runoff Management System (570)**, **Waste Management System (312)**, **Waste Utilization (633)**, **Well Decommissioning (351)**, **Wetland Wildlife Habitat Management (644)**, and **Grassed Waterways (412)**.

For example, Where it is necessary to manage livestock and/or human access to headquarters operations then **Fence (382)** , practice would become **NEEDED** for the completion of the **RMS**.

Occasionally, there are **DESIRABLE** practices not required to meet the minimum quality criteria level for a resource management system. These practices may be **DESIRABLE** to the client for enhancement of the resource base or provide for multiple uses. For example, **Wildlife Upland Habitat Management (644)** may be a **DESIRABLE** practice for headquarters land to meet producer objectives or provide for multiple land uses.

Adding the **NEEDED** and/or **DESIRABLE** practices to the **ESSENTIAL** ones develops resource management systems. The combination of practices meet the quality criteria established for the headquarters land quality concern (soil, water, air, plant animal, and human) and meet the objectives of the client. When multiple land use is an objective, the needs of each use and the effects of each practice must be considered in the selection and application design of each practice to ensure compatibility.

The following tables show **ESSENTIAL** and **NEEDED** and/or **DESIRABLE** conservation practices applicable to headquarters land. Table 1 shows the **ESSENTIAL** practices for NM. Table 2 shows **NEEDED** and/or **DESIRABLE** practices. There may be additional practices not included on Table 2 that will benefit headquarters land.

Table 1

ESSENTIAL HEADQUARTERS LAND PRACTICES		
Practice Name	Practice Code	Need
Roof Runoff Management	558	

Table 2

NEEDED and/or DESIRABLE Practices	
Practice Name	Practice Code
One of the following: (if livestock are present in HQ area.)	360
• Closure of Waste Impoundments	317
• , Composting Facility	634
• , Manure Transfer	521a
• , Pond Sealing or Lining	521c
• , Waste Storage Facility	313
• , and Waste Treatment Lagoon	359
• Constructed Wetland	656
One or more of the following: (if odors, air temp, and/or visual screening are concerns.)	
• Tree and Shrub Establishment	612
• Windbreak/Shelterbelt Establishment	380
• Windbreak/Shelterbelt Renovation	650a
Pest Management (<i>if pests are controlled</i>)	595
Nutrient Management (<i>if fertilizer or manure is used</i>)	590
Water Management (<i>if irrigated</i>)	449
Access Road	560
Controlled Drainage	335
Critical Area Planting	342
Dike	348
Diversion	362
Drainage Water Management	554
Fence	382
Filter Strip	393
Firebreak	394
Floodwater Diversion	400
Floodway	404
Heavy Use Area Protection	561
Herbaceous Wind Barriers (Buffer)	503
Irrigation Land Leveling	464
Irrigation System – (Several)	441, 442, 443, & 447
Irrigation Water Conveyance – (Several)	Many
Mulching	484
Sediment Basin	350
Structure for Water Control	587

Surface Roughening	609
Terrace	600
Tree/Shrub Establishment	612
Upland Wildlife Habitat Management	645
Water Well	642
Windbreak/Shelterbelt Establishment (Buffer)	380
Heavy Use Area Protection	561
Runoff Management System	558
Sediment Basin	350
Terrace	600
Water and Sediment Control Basin	638

SECTION III
RESOURCE MANAGEMENT SYSTEMS GUIDANCE DOCUMENT

RESOURCE SETTING

.MLRA 70B, CP2 – Pecos Canadian Plains – Conez, Redonda, Quay, San Jose soils, level to moderately sloping, 100 Head Dairy Operation.

RESOURCE PROBLEMS

SOIL: - Sheet & Rill Erosion, Contamination from Animal Wastes..
WATER: - Overland flow, water management (non-irrigated).
AIR: - Dust
PLANT: - Suitability to Intended Use.
ANIMAL: - Domestic Animal Health.
HUMAN: - USDA Program Participation.

RMS #1	Practice #	SOIL		WATER		AIR	PLANT	ANIMAL	HUMAN
		Sheet & Rill	Contamination, Animal Waste	Water Management	Overland Flow.	Dust	Suitability To Intended Use.	Domestic Animal Health.	USDA Program Participation
Roof Runoff Management	558	0	+	0	+	+	0	+	+
Grassed Waterway	412	F	N/A	0	F	0	N/A	0	+
Nutrient Mgt.	590	0	+	0	0	N/A	+	N/A	+
Pest Mgt.	595	0	0	0	0	N/A	+	N/A	+
Irrigation Water Management	449	0	0	+		+	+	0	+

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