

## SECTION III – C GUIDANCE DOCUMENTS

### 1. Planning Guide for Resource Management Systems

#### Introduction

This section provides planning guidance for development of **Resource Management Systems (RMS)** that are typically used in Delaware to treat or prevent problems associated with soil, water, air, plant, and animal resources (SWAPA).

A RMS must be developed in accordance with all applicable federal, state, and local regulations and program requirements, including appropriate consideration of ecological, economic, and social factors. A RMS is considered fully applied when all of the conservation practices that make up the system have been implemented according to the applicable Conservation Practice Standards in Section IV of the FOTG.

One of the first steps in formulating a RMS is to identify all potential resource concerns in the planning area, and determine how they relate to each of the SWAPA resources. This planning guide identifies (1) the primary resource concerns and problems commonly associated with each land use, (2) the essential conservation practices that are required to treat the identified resource concerns, and (3) a selected list of supporting practices that

may be used as needed to treat additional identified problems. The "essential practices" are practices that have been identified as essential to successfully treat a land unit and are always planned in an RMS. Additional "supporting practices" are planned when necessary to treat additional resource problems identified during the planning process.

Guidance is provided for land uses commonly associated with agricultural operations. These land uses are:

[Cropland](#)

[Hayland](#)

[Pasture](#)

[Woodland](#)

[Wildlife Land](#)

[Headquarters](#)

Refer to Section III-C-2 of the FOTG for examples of Resource Management Systems that are typically used in Delaware.

## Planning Guide for Resource Management Systems

LAND USE	PRIMARY RESOURCE CONCERNS AND PROBLEMS	ESSENTIAL PRACTICES	SUPPORTING PRACTICES
Cropland	<p><b>SOIL</b></p> <p>Erosion</p> <p>a) Sheet and Rill</p> <p><b>WATER</b></p> <p>Quantity</p> <p>a) Insufficient Water Supply (Applicable only on irrigated land)</p> <p>Quality</p> <p>a) Nutrients and Organics</p> <p><b>PLANTS</b></p> <p>Health and Productivity</p> <p>a) Nutrients</p> <p>b) Establishment and Management</p>	<p>The following practices are required for a Resource Management System (RMS):</p> <p>Conservation Crop Rotation – 328</p> <p>Nutrient Management – 590</p> <p>Irrigation Water Management – 499 (applicable only on irrigated land)</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of cropland management systems in Delaware:</p> <p>Residue Management (one of the following)</p> <p>    No-Till &amp; Strip Till – 329A</p> <p>    Mulch Till – 329B</p> <p>    Seasonal - 344</p> <p>Pest Management – 595</p> <p>Cover Crop – 340</p> <p>Filter Strip – 393</p> <p>Field Border – 386</p> <p>Grassed Waterway – 412</p> <p>Riparian Forest Buffer – 391</p> <p>Windbreak/Shelterbelt Establishment – 380</p>
Hayland	<p><b>SOIL</b></p> <p>Erosion</p> <p>a) Sheet and Rill</p> <p><b>WATER</b></p> <p>Quality</p> <p>a) Nutrients and Organics</p> <p><b>PLANTS</b></p> <p>Health and Productivity</p> <p>a) Establishment and Management</p> <p>b) Nutrients</p>	<p>The following practices are required for a Resource Management System (RMS):</p> <p>Forage Harvest Management – 511</p> <p>Nutrient Management – 590</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of hayland management systems in Delaware:</p> <p>Conservation Crop Rotation – 328</p> <p>Pasture and Hay Planting – 512</p> <p>Pest Management – 595</p> <p>Grassed Waterway – 412</p>

LAND USE	PRIMARY RESOURCE CONCERNS AND PROBLEMS	ESSENTIAL PRACTICES	SUPPORTING PRACTICES
Pasture	<p><b>SOIL</b> Erosion a) Sheet and Rill</p> <p><b>WATER</b> Quality a) Nutrients and Organics</p> <p><b>PLANTS</b> Health and Productivity a) Establishment and Management b) Nutrients c) Sustainability</p> <p><b>ANIMALS</b> Health and Productivity a) Food b) Water c) Shelter d) Growth, Reproduction, and Condition</p>	<p>The following practices are required for a Resource Management System (RMS): Prescribed Grazing – 528A Nutrient Management – 590</p> <p>An adequate water supply for livestock is required.</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of pasture management systems in Delaware:</p> <p>Fence – 328 Forage Harvest Management – 511 Pasture and Hay Planting – 512 Pest Management – 595 Pond – 378 Riparian Forest Buffer – 391 Spring Development – 574 Stream Crossing – 728 Trough or Tank – 614 Well – 642</p>
Woodland	<p><b>PLANTS</b> Health and Productivity a) Sustainability b) Establishment and Management</p>	<p>The following practices are required for a Resource Management System (RMS): Forest Stand Improvement – 666</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of woodland management systems in Delaware:</p> <p>Tree/Shrub Establishment – 612 Upland Wildlife Habitat Management – 645 Wetland Wildlife Habitat Management – 644</p>

LAND USE	PRIMARY RESOURCE CONCERNS AND PROBLEMS	ESSENTIAL PRACTICES	SUPPORTING PRACTICES
Wildlife Land	<p><b>PLANTS</b> Health and Productivity a) Sustainability b) Establishment and Management</p> <p><b>ANIMALS</b> Health and Productivity a) Food, Cover, and/or Water</p>	<p>The following practices are required for a Resource Management System (RMS): Upland Wildlife Habitat Management – 645 and/or Wetland Wildlife Habitat Management – 644</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of wildlife land management systems in Delaware:</p> <p>Conservation Cover – 327 Field Border – 386 Filter Strip – 393 Tree/Shrub Establishment - 612 Fishpond Management – 399 Hedgerow Planting – 422 Pond – 378 Pest Management – 595 Riparian Forest Buffer – 391 Shallow Water Area for Wildlife – 646 Streambank and Shoreline Protection – 580 Wetland Creation – 658 Wetland Restoration – 657</p>

LAND USE	PRIMARY RESOURCE CONCERNS AND PROBLEMS	ESSENTIAL PRACTICES	SUPPORTING PRACTICES
Headquarters	<p><b>WATER</b> Quality</p> <p><b>ANIMALS (livestock operation only)</b> Health and Productivity</p> <p>a) Growth, Reproduction, and Condition</p>	<p>The following practices are required for a Resource Management System (RMS):</p> <p>(none identified)</p>	<p>All practices listed in the FOTG may be used as needed to address resource concerns. The following practices are frequently used components of headquarters management systems in Delaware:</p> <p>Access Road – 560 Composting Facility – 317 Critical Area Planting – 342 Diversion – 362 Fence – 382 Filter Strip – 393 Heavy Use Area Protection – 561 Roof Runoff Structure – 558 Waste Storage Facility – 313 Waste Treatment Lagoon – 359 Windbreak/Shelterbelt Establishment – 380</p> <p>Note: For livestock operations, use Nutrient Management, 590, on cropland and other land uses where the animal waste will be applied.</p>