

Conservation Effects

Land use: Cropland

Guidance Document ID#: C1

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Resource Setting: Cropland adjacent to surface water. Manure applied. Irrigated.

RMS Alternative #2

Conservation Crop Rotation (328)
 Critical Area Planting (342)
 Filter Strip (393)
 Irrigation Water Management (449)
 Lined Waterway or Outlet (468)
 Nutrient Management (590)
 Pest Management (595)
 Riparian Forest Buffer (391)
 Streambank and Shoreline Protection (580)
 Windbreak/Shelterbelt Establishment (380)

Typical Resource Concerns	Practice(s) that treat the resource concern to Quality Criteria levels*	Comments
SOIL Erosion		
1) Sheet & rill erosion	Conservation Crop Rotation (328) Critical Area Planting (342) Irrigation Water Management (449)	soil loss less than “T”
2) Wind erosion	Critical Area Planting (342) Conservation Crop Rotation (328) Windbreak/Shelterbelt Establishment (380)	soil loss less than “T”
3) Ephemeral gully/concentrated flow erosion	Critical Area Planting (342)	gullies stabilized
4) Classic gully/concentrated flow erosion	Lined Waterway or Outlet (468)	gullies stabilized
5) Other erosion	Streambank and Shoreline Protection (580)	areas stabilized
WATER Quality – ground water		
1) Pesticides	Conservation Crop Rotation (328) Irrigation Water Management (449) Pest Management (595)	pesticide movement minimized
2) Nutrients	Irrigation Water Management (449) Nutrient Management (590)	nutrient movement minimized
WATER Quality – surface water		
1) Pesticides	Conservation Crop Rotation (328) Filter Strip (393) Irrigation Water Management (449) Pest Management (595) Riparian Forest Buffer (391)	pesticide movement minimized
2) Livestock operations	Filter Strip (393) Irrigation Water Management (449) Nutrient Management (590) Riparian Forest Buffer (391)	Manure and nutrient movement minimized.

* Practices must be installed according to NRCS practice standards found in FOTG Section IV. General criteria (or design criteria), Additional Criteria specific to the resource concern, and Operation and Maintenance requirements must be met.

Typical Resource Concerns	Practice(s) that treat the resource concern to Quality Criteria levels*	Comments
3) Nutrients/ sediments	Filter Strip (393) Irrigation Water Management (449) Nutrient Management (590) Riparian Forest Buffer (391)	Nutrient and sediment movement minimized.
WATER Quantity		
1) Irrigation Water Source	Irrigation Water Management (449)	Application rate is not excessive.
AIR		
1) Airborne Chemical Drift	Pest Management (595)	Application in compliance with laws and consistent with Drift Management Plan.
2) Airborne Odors		No complaints.
PLANTS		
1) Invasive species and noxious weeds	Pest Management (595)	Invasive species and noxious weeds controlled.
ANIMAL Habitat		
1) Wildlife Habitat secondary purpose	Conservation Crop Rotation (328)	Crop rotation must consist of row crops- small grains- grass/legumes and provide >10% unharvested areas unless other practices and/or field conditions provide a Crop Habitat Index of 0.35 (e.g., small field size, short distance to cover, high crop residue amounts)
2) Warmwater and coldwater fisheries	Riparian Forest Buffer (391)	35 feet of permanent vegetation along watercourses
ANIMAL Management		
1) Threatened and endangered species	Pest Management (595)	Laws regarding T&E species followed.

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