

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 #1

- Conservation Crop Rotation (328)
- Filter Strip (393)
- Grassed Waterway (412)
- Grade Stabilization Structure (410)
- Irrigation Water Management (449)
- Nutrient Management (590)
- Pest Management (595)
- Residue Management
 - (one or more of the following):
 - Mulch Till (329B)
 - No-till and Strip Till (329A)
- Riparian Forest Buffer (391)
- Streambank and Shoreline Protection (580)

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) Irrigation Water Management (449) Residue Management, Mulch Till (329B) Residue Management, No-till and Strip Till (329A)	soil loss less than “T”
2) Wind erosion	Conservation Crop Rotation (328) Residue Management, Mulch Till (329B) Residue Management, No-till and Strip Till (329A)	soil loss less than “T”
3) Ephemeral gully/concentrated flow erosion	Grassed Waterway (412)	gullies stabilized
4) Classic gully/concentrated flow erosion	Grade Stabilization Structure (410)	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

* 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
WATER Quality – surface water		
1) Pesticides	Conservation Crop Rotation (328) Filter Strip (393) Irrigation Water Management (449) Pest Management (595) Residue Management, Mulch Till (329B) Residue Management, No-Till & Strip Till (329A) Riparian Forest Buffer (391)	pesticide movement minimized
2) Livestock operations	Filter Strip (393) Irrigation Water Management (449) Nutrient Management (590) Residue Management, Mulch Till (329B) Residue Management, No-Till & Strip Till (329A) Riparian Forest Buffer (391)	Manure and nutrient movement minimized.
3) Nutrients/sediments	Filter Strip (393) Grade Stabilization Structure (410) Grassed Waterway (412) Irrigation Water Management (449) Nutrient Management (590) Residue Management, Mulch Till (329B) Residue Management, No-Till & Strip Till (329A) 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.

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Typical Resource Concerns	Practice(s) that treat the resource concern to Quality Criteria levels*	Comments
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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