Effects of NRCS Conservation Practices - National

Surface Drainage, Main or Lateral

An open drainage ditch constructed to a designed cross section, alignment and grade.

<u>Soil Erosion</u> Soil Erosion - Sheet and Rill Erosion	<u>Effect</u> 0	<u>Rationale</u> Not Applicable
Soil Erosion - Wind Erosion	-1	Improving drainage may increase surface soil drying.
Soil Erosion - Ephemeral Gully Erosion	2	Reducing soil profile saturation increases infiltration by improving drainage an
Soil Erosion - Classic Gully Erosion	-1	Because of higher concentration and velocities from water collection.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
<u>Soil Quality Degradation</u> Organic Matter Depletion	0	Not Applicable
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Not Applicable
<u>Excess Water</u> Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	2	Because of improved drainage.
Excess Water - Seasonal High Water Table	2	Control of water table - subsurface water is collected and conveyed to a prope
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	2	Drains can collect water for beneficial use or reuse and improved soil, water ai
Insufficient Water - Inefficient Moisture Management	2	Drains can collect water for beneficial use or reuse and improved soil, water ai
<u>Water Quality Degradation</u> Pesticides in Surface Water	0	Not Applicable
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	-2	Increasing the rate of runoff from a field can increase the amount of soluble po
Nutrients in Groundwater	1	The action facilitates the removal of surface water, thus reducing percolation of
Salts in Surface Water	-2	The action removes both surface and subsurface water and associated contan
Salts in Groundwater	2	The action removes both surface and subsurface water and associated contan
Excess Pathogens and Chemicals from Manure, Bio-solic	-2	Where pathogens are transported by sediments
Excess Pathogens and Chemicals from Manure, Bio-solic	2	The action removes both surface and subsurface water and associated contan
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Code: 608 Units: ft. T-Aso Land Pr-Protected C-Crop Typical Landuse: C F R P Pr FS D O AL

and therefore decreases water runoff.

per outlet.

r air relationship.

r air relationship.

pollutants delivered to surface water.

n of water and nutrients.

taminants from the site.

taminants from the site.

taminants from the site.

Excessive Sediment in Surface Water	-2	Increased drainage and runoff will carry sediments.				
Elevated Water Temperature	0	Surface water is conveyed relatively quickly, reducing the risk of warming.				
Petroleum, Heavy Metals and Other Pollutants Transporte	-2	Heavy metals are carried with sediment to surface waters.				
Petroleum, Heavy Metals and Other Pollutants Transporte	2	The action removes both surface and subsurface water and associated contaminants from the site.				
<u>Air Quality Impacts</u>	_					
Emissions of Particulate Matter (PM) and PM Precursors	0	Not Applicable				
Emissions of Ozone Precursors	0	Not Applicable				
Emissions of Greenhouse Gases (GHGs)	0	Not Applicable				
Objectionable Odors	0	Not Applicable				
Degraded Plant Condition	2	Improved drainers enhances growing environment for nen bydrenbytes. If bydrenbyt	ee are desired, drainare will increase the			
Undesirable Plant Productivity and Health	2	Improved drainage enhances growing environment for non-hydrophytes. If hydrophytes are desired, drainage will increase the problem.				
Inadequate Structure and Composition	0	Not Applicable				
Excessive Plant Pest Pressure	0	Not Applicable				
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable				
Fish and Wildlife - Inadequate Habitat	0	Increase or decrease in feed cumply depende on plant appairs on the site and degree				
Inadequate Habitat - Food	0	Increase or decrease in food supply depends on plant species on the site and degree of drainage.				
Inadequate Habitat - Cover/Shelter	0	Increase or decrease in cover/shelter depends on plant species on the site due to soil moisture/plant relationships.				
Inadequate Habitat - Water	0	The action will increase available wet habitat for some species and decrease it for others.				
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable				
Livestock Production Limitation						
Inadequate Feed and Forage	4	Quantity and quality of forage species will be improved if drainage is installed to enhance their production.				
Inadequate Shelter	0	Not Applicable				
Inadequate Water	0	Not Applicable				
Inefficient Energy Use						
Equipment and Facilities	0	Not Applicable				
Farming/Ranching Practices and Field Operations	0	Not Applicable				
		CPPE Practice Effects:	0 No Effect			
		5 Substantial Improvement 4 Moderate to Substantial Improvement	-1 Slight Worsening -2 Slight to Moderate Worsening			
		3 Moderate Improvement	-3 Moderate Worsening			
		2 Slight to Moderate Improvement	-4 Moderate to Substantial Worsening			
		1 Slight Improvement	-5 Substantial Worsening			