Effects of NRCS Conservation Practices - National

Row Arrangement

A system of crop rows on planned grades and lengths.

Code: 557 Units: ac.

		<u> </u>
Soil Erosion	Effect	Typical Landuse: c ⊧
Soil Erosion - Sheet and Rill Erosion	3	Rows are arranged in direction, grade, and length to reduce erosion
Soil Erosion - Wind Erosion	1	Adding roughness to the soil across the prevailing wind direction reduces saltation.
Soil Erosion - Ephemeral Gully Erosion	3	Rows are arranged in direction, grade, and length to reduce erosion
Soil Erosion - Classic Gully Erosion	0	The action not installed in gully area
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Reduced erosion and sediment load can create water energy/stream bank erosion from runoff
Soil Quality Degradation Organic Matter Depletion	1	Reduced erosion reduces loss of organic material in sediments
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	1	Improved moisture control may result in leaching of contaminants below the root zone
Excess Water Excess Water - Seeps	-1	Row arrangement may result in more infiltration.
Excess Water - Runoff, Flooding, or Ponding	2	Correct row arrangement provides better drainage control.
Excess Water - Seasonal High Water Table	-1	Row arrangement may result in more infiltration.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	4	Row arrangement with proper grade and length improves irrigation efficiency.
Insufficient Water - Inefficient Moisture Management	4	Row arrangement with proper grade and length improves water capture.
Water Quality Degradation Pesticides in Surface Water	1	The action reduces runoff and erosion.
Pesticides in Groundwater	-1	The action increases infiltration.
Nutrients in Surface water	-2	The action facilitates the removal of surface runoff, thus increasing the potential for surface water contamination by organics and nutrients.
Nutrients in Groundwater	2	The action facilitates the removal of surface runoff, thus reducing percolation of water and nutrients.
Salts in Surface Water	0	The action can increase percolation, which reduces the runoff of soluble salts. The action can also increase surface drainage, which moves contaminants from the site.
Salts in Groundwater	0	Increased percolation may move soluble salts into groundwater.
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Retarding surface water flow will reduce transport of pathogens
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	2	Reduced slope and water velocity will reduce erosion.			
Elevated Water Temperature	0	Not Applicable			
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Collected runoff may discharge into surface water.			
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable			
Air Quality Impacts					
Emissions of Particulate Matter (PM) and PM Precursors	0	Not Applicable			
Emissions of Ozone Precursors	0	Not Applicable			
Emissions of Greenhouse Gases (GHGs)	0	Improved production and vegetative density removes CO2 from the air and stores it in the form of carbon in the plants and soil.			
Objectionable Odors	0	Not Applicable			
Degraded Plant Condition					
Undesirable Plant Productivity and Health	1	Conserving moisture and reduced erosion will improve plant productivity and health.			
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					
Inadequate Habitat - Food	0	Not Applicable			
Inadequate Habitat - Cover/Shelter	0	Not Applicable			
Inadequate Habitat - Water	3	Not Applicable			
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable			
Livestock Production Limitation					
Inadequate Feed and Forage	0	Not Applicable			
	v	· · · · · · · · · · · · · · · · · · ·			
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			

CPPE Practice Effects:	0 No Effect
5 Substantial Improvement	-1 Slight Worsening
4 Moderate to Substantial Improvement	-2 Slight to Moderate V

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