Effects of NRCS Conservation Practices - National

Mulching

Applying plant residues or other suitable materials produced off site, to the land surface

Code: 484 Units: ac. O-Other
W-Water
D-Developed
FS-Farmstead
Pr-Protected
P-Pasture
R-Range
F-Forest

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Soil Erosion	<u>Effect</u>	Typical Landuse: C F R P Pr FS D O AL Rationale
Soil Erosion - Sheet and Rill Erosion	4	Soil cover reduces erosion from water.
Soil Erosion - Wind Erosion	4	Soil cover reduces erosion from wind.
Soil Erosion - Ephemeral Gully Erosion	0	Not Applicable
Soil Erosion - Classic Gully Erosion	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance Cl	0	Not Applicable
Soil Quality Degradation		
Organic Matter Depletion	1	Decreased erosion and biomass addition from organic mulches will increase soil organic matter.
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	1	Reduced evaporation may reduce salt build-up. Added organic matter will buffer salts.
Excess Water Excess Water - Seeps	-1	Increased infiltration results in more water moving through the profile.
Excess Water - Runoff, Flooding, or Ponding	1	Increased infiltration, reduces runoff and ponding.
Excess Water - Seasonal High Water Table	-1	Increased infiltration results in more water moving through the profile.
Excess Water - Drifted Snow	0	Not Applicable
<u>Insufficient Water</u> Insufficient Water - Inefficient Use of Irrigation Water	2	Increases infiltration and decreases evaporation resulting in more available water.
Insufficient Water - Inefficient Moisture Management	2	Increases infiltration and decreases evaporation resulting in more available water.
Water Quality Degradation Pesticides in Surface Water	2	The action reduces runoff, erosion and the need for pesticide use. Impervious mulches may increase runoff.
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	2	The action reduces erosion and runoff, reducing the loss of dissolved and sediment-bound nutrients from the site.
Nutrients in Groundwater	-1	The action increases infiltration that contributes to nutrient leaching. Also, high organic carbon will cause microbes to immobilize nutrients.
Salts in Surface Water	1	Less runoff reduces transport potential of soluble salts.

Salts in Groundwater	-1	Better infiltration increases leaching potential.
Excess Pathogens and Chemicals from Manure, Bio-solid	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solid	0	Better infiltration could increase leaching, but increased microbial activity increases competition with pathogens.
Excessive Sediment in Surface Water	2	Less erosion and runoff reduces transport of sediment.
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable
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Air Quality Impacts Emissions of Particulate Matter (PM) and PM Precursors	2	Mulches can stabilize the soil surface, reducing the generation of particulate matter.
Emissions of Ozone Precursors	0	Not Applicable
Emissions of Greenhouse Gases (GHGs)	0	Not Applicable
Objectionable Odors	0	Not Applicable
<u>Degraded Plant Condition</u> Undesirable Plant Productivity and Health	2	Mulching materials improve growing conditions contributing to increased plant health and vigor.
Inadequate Structure and Composition	0	Not Applicable
Excessive Plant Pest Pressure	2	Thick and/or impenetrable mulch cover can prevent emergence of undesired species.
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable
Fish and Wildlife - Inadequate Habitat Inadequate Habitat - Food	1	Mulching enhances production of any food species planted.
Inadequate Habitat - Cover/Shelter	1	Mulching enhances cover/shelter conditions.
Inadequate Habitat - Water	0	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
<u>Livestock Production Limitation</u> Inadequate Feed and Forage	0	Not Applicable
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: 5 Substantial Improvement 4 Moderate to Substantial Improvement 3 Moderate Improvement 2 Slight to Moderate Worsening 4 Moderate Improvement 3 Moderate Improvement 4 Moderate to Substantial Worsening 4 Moderate to Substantial Worsening

1 Slight Improvement

-5 Substantial Worsening