Effects of NRCS Conservation Practices - National

Precision Land Forming

Reshaping the surface of land to planned grades.

Code: 462 Units: ac.

		Typical Landuse: C P FS D O
Soil Erosion Soil Erosion - Sheet and Rill Erosion	Effect 0	Reshaping the surface of land may reduce the degree of slope, however, slope length may be increased.
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Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	2	Creating a more uniform surface may increase infiltration and decrease concentrated flow.
Soil Erosion - Classic Gully Erosion	4	Land forming is used to reshape and fill gully.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
Soil Quality Degradation Organic Matter Depletion	-2	The process of land forming alters the soil profile and aerates the soil.
Compaction	-1	Use of heavy equipment during land forming may cause compaction. Mitigation and appropriate timing are part of practice design.
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	1	Smoothing causes a more uniform infiltration
Excess Water Excess Water - Seeps	2	Creates a more uniform surface and removal of depressions.
Excess Water - Runoff, Flooding, or Ponding	2	Creates a more uniform surface and removal of depressions will eliminate ponding.
Excess Water - Seasonal High Water Table	2	Creates a more uniform surface and removes depressions to improve drainages.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable
Insufficient Water - Inefficient Moisture Management	2	Because of improved water distribution.
Water Quality Degradation Pesticides in Surface Water	1	Reshaping the surface of the land reduces erosion.
Pesticides in Groundwater	1	Reshaping the surface of the land reduces deep percolation.
Nutrients in Surface water	1	The action smoothes the surface which increases infiltration and reduces transport of nutrients to surface waters.
Nutrients in Groundwater	2	The action smoothes the surface which reduces ponding and the transport of nutrients to ground water.
Salts in Surface Water	0	The action will not appreciably alter runoff and runoff-related contaminants.
Salts in Groundwater	1	The action causes a decrease in ponding and a more uniform infiltration.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	1	The uniform surface grade reduces ponding and excessive infiltration of contaminated water.

Ī	Excessive Sediment in Surface Water	1	Land surface is formed to a non-erosive grade.
	Elevated Water Temperature	0	Not Applicable
	Petroleum, Heavy Metals and Other Pollutants Transporte	1	Smoothing uneven land allows the application of practices that can reduce sheet, rill and ephemeral gully erosion and increase infiltration.
	Petroleum, Heavy Metals and Other Pollutants Transporte	1	The uniform surface grade reduces ponding and excessive infiltration of contaminated water.
	Air Quality Impacts		
	Emissions of Particulate Matter (PM) and PM Precursors	0	Equipment operations temporarily produce particulate emissions and exhaust emissions.
	Emissions of Ozone Precursors	0	Equipment operations temporarily produce exhaust emissions.
	Emissions of Greenhouse Gases (GHGs)	-1	Some carbon may be lost due to soil disturbance.
	Objectionable Odors	0	Not Applicable
	Degraded Plant Condition		
	Undesirable Plant Productivity and Health	4	Site modification to improve irrigation application enhances the health and vigor of desired species.
	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	0	Not Applicable
	Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
	Livestock Production Limitation		
	Inadequate Feed and Forage	0	Not Applicable
	Inadequate Shelter	0	Not Applicable
	Inadequate Water	0	Not Applicable
	<u>Inefficient Energy Use</u>		
	Equipment and Facilities	0	Not Applicable
	Farming/Ranching Practices and Field Operations	0	Not Applicable
			CPPE Practice Effects: 0 No Effect

CPF	<u>'E Pl</u>	<u>ractice</u>	Effects:

- 5 Substantial Improvement
- 4 Moderate to Substantial Improvement
- 3 Moderate Improvement
- 2 Slight to Moderate Improvement
- 1 Slight Improvement

- 0 No Effect
- -1 Slight Worsening
- -2 Slight to Moderate Worsening
- -3 Moderate Worsening
- -4 Moderate to Substantial Worsening
- -5 Substantial Worsening