## **Effects of NRCS Conservation Practices - National**

## **Grazing Land Mechanical Treatment**

Modifying physical soil and or plant conditions with mechanical tools by treatment such as; pitting, contour furrowing, and or sub-soiling.

Soil Erosion	<u>Effect</u>	Rationale
Soil Erosion - Sheet and Rill Erosion	1	Increased surface roughness and improved vegetation cover will increase in
Soil Erosion - Wind Erosion	1	An increase in vegetative cover decreases erosion by wind.
Soil Erosion - Ephemeral Gully Erosion	0	Not applicable.
Soil Erosion - Classic Gully Erosion	0	Not applicable.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not applicable.
Soil Quality Degradation		
Organic Matter Depletion	1	Improved plant vigor and productivity increases organic matter.
Compaction	0	Not applicable.
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Not applicable.
Excess Water		
Excess Water - Seeps	0	Not applicable.
Excess Water - Runoff, Flooding, or Ponding	2	Increased infiltration and decreased runoff.
Excess Water - Seasonal High Water Table	0	Not applicable.
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	Increased water infiltration and improved plant, soil, moisture, and air relation
Water Quality Degradation		
Pesticides in Surface Water	0	Not applicable.
Pesticides in Groundwater	0	Not applicable.
Nutrients in Surface water	1	Modifications to soil conditions will increase infiltration and reduce runoff. decreasing the potential for losses in runoff.
Nutrients in Groundwater	0	Not applicable.
Salts in Surface Water	0	Not applicable.
Salts in Groundwater	0	Not applicable.
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Slight improvement because of increased infiltration and decreased runoff.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not applicable.

d ripping	Code: 548 Units: ac.	AL-Aso Lanc O-Other W-Water D-Developec FS-Farmstead Pr-Protected P-Pasture R-Range F-Forest C-Crop
	Typical Landuse	<b>6</b> : FRP

infiltration, reduce runoff, reduce soil movement.

ionships.

Improved plant growth will better utilize nutrients,

Excessive Sediment in Surface Water	5	Inproved hydrologic indicators increase infilt	ration and decreases runoff.
Elevated Water Temperature	0	Not Applicable	
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not applicable.	
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not applicable.	
Air Quality Impacts			
Emissions of Particulate Matter (PM) and PM Precursors	-1	Intensive disturbance of soil can release part	iculate matter.
Emissions of Ozone Precursors	0	Not Applicable	
Emissions of Greenhouse Gases (GHGs)	-2	Intensive disturbance of soil can release stor	ed soil carbon as carbon dioxid
Objectionable Odors	0	Not Applicable	
Degraded Plant Condition			
Undesirable Plant Productivity and Health	4	Site is modified to enhance the health and vig	gor of desired species.
Inadequate Structure and Composition	2	Site is modified to enhancing suited and desi	ired species.
Excessive Plant Pest Pressure	-1	Undesired plants can colonize newly treated areas.	
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	1	Not applicable.	
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable	
Livestock Production Limitation			
Inadequate Feed and Forage	1	Treatment improves plant production and species diversity.	
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 woderate to Substantial Improvement
			2 Slight to Moderate Improvement
			1 Slight Improvement

d	e	

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