Effects of NRCS Conservation Practices - National

Herbaceous Wind Barriers

Herbaceous vegetation established in rows or narrow strips in the field across the prevailing wind direction.

Soil Erosion	<u>Effect</u>	Rationale
Soil Erosion - Sheet and Rill Erosion	0	Not Applicable
Soil Erosion - Wind Erosion	4	Stiff stemmed herbaceous vegetation established across the prevailing wind trapping saltating soil particles and sheltering an area down 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	2	Organic matter loss by wind erosion is reduced.
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	0	Not Applicable
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	3	Trapped snow can provide additional plant available moisture.
Water Quality Degradation		
Pesticides in Surface Water	1	The action reduces soil erosion from wind. Also, the barriers may attract be need for pesticide applications.
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	1	The action reduces soil erosion from wind and the potential transport of soi
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	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Code:
603 Units:
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eneficial insects or trap insect pests which reduce the

il-adsorbed nutrients to surface water.

Excessive Sediment in Surface Water	1	Vegetation reduces soil erosion from wind and the resulting offsite sediment deposits				
Elevated Water Temperature	0	Not Applicable				
Petroleum, Heavy Metals and Other Pollutants Transporte	1	Reduced wind erosion reduces transport of metals attached to dust.				
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable				
Air Quality Impacts						
Emissions of Particulate Matter (PM) and PM Precursors	2	Properly spaced barriers can effectively reduce wind erosion and particulate emissions.				
Emissions of Ozone Precursors	0	Not Applicable				
Emissions of Greenhouse Gases (GHGs)	2	Vegetation removes CO2 from the air and stores it in the form of carbon in the plants and soil and reduced soil loss/organic matter				
Objectionable Odors	0	Not Applicable				
Degraded Plant Condition						
Undesirable Plant Productivity and Health	2	Plants selected will be maintained at optimal growing conditions for the intended purpose.				
Inadequate Structure and Composition	5	Plants selected are adapted and suited.				
Excessive Plant Pest Pressure	4	Vegetation is installed and managed to control undesired species.				
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable				
Fish and Wildlife Indogusta Habitat						
Inadequate Habitat - Food	2	Increased quality and quantity of vegetation provides more food for wildlife.				
Inadequate Habitat - Cover/Shelter	2	Increased quality and quantity of vegetation provides more cover for wildlife.				
Inadequate Habitat - Water	0	Not Applicable				
Inadequate Habitat - Habitat Continuity (Space)	2	Herbaceous wind barriers can provide additional habitat/space.				
livesteck Production Limitation						
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:	0 No Effect		
			5 Substantial Improvement	-1 Slight Worsening		
			4 Moderate to Substantial Improvement	-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		