Effects of NRCS Conservation Practices - National

Field Border

A stripe of permanent vegetation established at the edge or around the perimeter or a field.

Code: 386 Units: ft.

AL-ASO Land
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>	<u>Rationale</u>
Soil Erosion - Sheet and Rill Erosion	4	Permanent vegetation planted across the slope reduces erosive water energy.
Soil Erosion - Wind Erosion	4	Stiff-stemmed, permanent vegetation traps saltating particles. More roughened surface slows wind velocities.
Soil Erosion - Ephemeral Gully Erosion	1	Vegetation across the slope reduces erosive energy of concentrated flows where they exit the field.
Soil Erosion - Classic Gully Erosion	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance C	1	Increased vegetation can reduce concentrated runoff flowing over streambanks.
Soil Quality Degradation Organic Matter Depletion	4	Permanent cover and lack of soil disturbance reduces decomposition of soil organic materials such as roots and allows accumulation.
Compaction	2	Root penetration and organic matter helps restore soil structure.
Subsidence	0	Drainage has the predominant impact on subsidence.
Concentration of Salts or Other Chemicals	0	Not Applicable
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	1	Permanent vegetation will reduce runoff and increase infiltration.
Excess Water - Seasonal High Water Table	0	Not Applicable
Excess Water - Drifted Snow	0	Not Applicable
<u>Insufficient Water</u> Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
Water Quality Degradation Pesticides in Surface Water	2	The action reduces runoff and erosion. Also, the borders may attract beneficial insects or trap insect pests, reducing the need for pesticide applications.
Pesticides in Groundwater	2	The action may attract beneficial insects or trap insect pests, reducing the need for pesticide applications.
Nutrients in Surface water	2	Permanent vegetation will take up available nutrients and increase organic matter. The increased organic matter will increase cation exchange capacity which will hold nutrients.
Nutrients in Groundwater	2	Permanent vegetation will take up available nutrients and increase organic matter. The increased organic matter will increase cation exchange capacity which will hold nutrients.
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	1	The action will result in increased uptake by plants.
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Less erosion and runoff reduces delivery of pathogens. More moist environment in permanent vegetation may slow pathogen mortality, however.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Permanent vegetation increases soil organic matter and microbial activity, which competes with pathogens. However, permanent vegetation may delay mortality of some pathogens by slowing desiccation.

ŀ	Excessive Sediment in Surface Water	2	Vegetation protects soil surface and traps sediment.
	Elevated Water Temperature	0	Not Applicable
l	Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable
	Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable
<u>Ai</u>	ir Quality Impacts		
E	Emissions of Particulate Matter (PM) and PM Precursors	1	Permanent vegetation around the field edge reduces particulate emissions from vehicle traffic and tillage in the border area.
E	Emissions of Ozone Precursors	0	Not Applicable
E	Emissions of Greenhouse Gases (GHGs)	1	Vegetation removes CO2 from the air and stores it in the form of carbon in the plants and soil.
•	Objectionable Odors	0	Not Applicable
De	egraded Plant Condition		
ι	Indesirable Plant Productivity and Health	5	Plants are selected and managed to maintain optimal productivity and health.
l	nadequate Structure and Composition	5	Plants selected are adapted and suited.
E	Excessive Plant Pest Pressure	4	Vegetation is installed and managed to control undesired species.
v	Vildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable
Fi	sh and Wildlife - Inadequate Habitat		
	nadequate Habitat - Food	2	Increased quality and quantity of vegetation provides more food for wildlife.
l	nadequate Habitat - Cover/Shelter	2	Plants may be chosen and managed to enhance value as cover/shelter.
li	nadequate Habitat - Water	4	Not Applicable
lı	nadequate Habitat - Habitat Continuity (Space)	2	Permanent vegetation may provide added habitat and connectivity for selected wildlife species.
Li	vestock Production Limitation		
	nadequate Feed and Forage	0	There may be some use of the planting for feed and forage by livestock.
h	nadequate Shelter	0	Not Applicable
lı	nadequate Water	0	Not Applicable
In	efficient Energy Use		
	Equipment and Facilities	0	Not Applicable
F	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