Effects of NRCS Conservation Practices - National

Grassed Waterway

A shaped or graded channel that is established with suitable vegetation to carry surface water at a non-erosive velocity to a stable

Code: 412 Units: ac.

O-Oth
W-Wat
D-Develope
FS-Farmstee
Pr-Protectt
P-Pastu
R-Rang
F-Fore

Typical Landuse:

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		Typical Landuse: C P Pr FS D O AL
Soil Erosion	<u>Effect</u>	<u>Rationale</u>
Soil Erosion - Sheet and Rill Erosion	0	Not Applicable
Soil Erosion - Wind Erosion	0	The unsheltered distance may be reduced by trapping saltating soil particles.
Soil Erosion - Ephemeral Gully Erosion	5	Shaping or grading of the channel conveys runoff water without causing erosion.
Soil Erosion - Classic Gully Erosion	4	Runoff is controlled and managed to prevent erosion.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	1	Inflows into the stream are controlled to prevent erosion.
Soil Quality Degradation Organic Matter Depletion	3	Permanent vegetation in the area of the waterway increases soil organic matter.
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	-1	Vegetation traps contaminated sediment.
Excess Water - Seeps	0	Provide outlet for seeps.
Excess Water - Runoff, Flooding, or Ponding	3	Waterways provide outlets for diversions and other water control practices.
Excess Water - Seasonal High Water Table	2	Subsurface drainage installed as part of this practice removes excess water.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water 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 increases infiltration and traps adsorbed pesticides.
Pesticides in Groundwater	0	The action increases infiltration which is offset by increased soil organic matter and biological activity.
Nutrients in Surface water	2	The vegetation in the channel will filter out some sediments, and the vegetation will utilize some nutrients.
Nutrients in Groundwater	0	The action may slightly increases infiltration within the waterway. However, the vegetation will uptake nutrients.
Salts in Surface Water	0	The action results in slight increase of infiltration that could decrease soluble salts in runoff.
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Waterway acts as filter and reduces pathogens in the runoff
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	2	Erosion is controlled, vegetation traps sediment, and runoff is delivered at a safe velocity.	
Elevated Water Temperature	0	Water is not retained in the waterway	
Petroleum, Heavy Metals and Other Pollutants Transporte	1	Waterway acts as filter and reduces heavy metals in the runoff. Vegetation may take up heavy metals.	
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Not Applicable	
A: 0 111 1			
<u>Air Quality Impacts</u> Emissions of Particulate Matter (PM) and PM Precursors	0	Not Applicable	
Emissions of Ozone Precursors	0	Not Applicable	
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	
Dograded Plant Condition			
<u>Degraded Plant Condition</u> Undesirable Plant Productivity and Health	5	Vegetation is maintained at optimal conditions for the function of the waterway	
Inadequate Structure and Composition	4	Plants selected for retention are more 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 - Inadequate Habitat			
Inadequate Habitat - Food	1	Planting of wildlife adapted plants outside the hydraulic functioning area of the waterway will provide food.	
Inadequate Habitat - Cover/Shelter	1	Planting of wildlife adapted plants outside the hydraulic functioning area of the waterway will provide cover/shelter.	
Inadequate Habitat - Water	0	The action improves surface water quality and provides seasonal habitat for aquatic species, especially if connected to a stream or river.	
Inadequate Habitat - Habitat Continuity (Space)	1	Waterways constructed in cropland will increase space and provide wildlife corridor	
Liverteck Production Limitation			
Livestock Production Limitation	1	There may be some use of the planting for feed and forage by livestock.	
Inadequate Feed and Forage	'	There may be some use of the planting for reed and lorage by livestock.	
Inadequate Shelter	0	Not Applicable	
Inadequate Water	0	Not Applicable	
Inefficient Energy Use			
Equipment and Facilities	1	Fewer gullies to cross with equipment	
Farming/Ranching Practices and Field Operations	1	Fewer gullies to cross with equipment	
		CPPE Practice Effects: 0 No Effect	

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