## Effects of NRCS Conservation Practices - National

## **Vegetated Treatment Area**

An area of permanent vegetation used for agricultural wastewater treatment.

Code: 635 Units: ac

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Soil Erosion	Effect	Typical Landuse: c P FS  Rationale
Soil Erosion - Sheet and Rill Erosion	4	Permanent vegetation established.
Soil Erosion - Wind Erosion	4	Permanent vegetation established.
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	3	Permanent vegetation established and organic matter captured
Compaction	3	Permanent vegetation established
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	-2	Use of the practice requires adding contaminants to the soil surface, some of which will infiltrate.
Excess Water Excess Water - Seeps	-1	Infiltration at area has the potential to aggravate already saturated conditions.
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	-2	Infiltration in the treatment area will add to subsurface 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	0	Not Applicable
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	4	Infiltration and plant uptake in the treatment area will remove contaminants from polluted runoff and waste water.
Nutrients in Groundwater	-2	The action entails the application of waste which increases the potential for groundwater contamination.
Salts in Surface Water	2	Infiltration in the treatment area may remove some salts from polluted runoff and waste water.
Salts in Groundwater	-2	The action entails the application of waste which increases the potential for groundwater contamination.
Excess Pathogens and Chemicals from Manure, Bio-solic	5	Infiltration and plant uptake in the treatment area will remove contaminants from polluted runoff and waste water.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Infiltrating water in treatment area will increase soluble contaminants moving to groundwater, however there will be die-off as pathogens are trapped in the vegetation and increased microbial activity enhances competition with pathogens.

Excessive Sediment in Surface Water	2	Vegetation protects soil surface and traps sediment, nutrients and other materials.
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Heavy metals are rarely associated with manure; however, infiltration and plant uptake in the treatment strip will remove contaminants from polluted runoff and waste water.
Petroleum, Heavy Metals and Other Pollutants Transporte	0	Heavy metals are rarely associated with manure, however, infiltrating water in treatment strip will increase soluble contaminants moving to groundwater.
Air Quality Impacts Emissions of Particulate Matter (PM) and PM Precursors	0	Not Applicable
Emissions of Ozone Precursors	0	Not Applicable
Linissions of Ozone Frecuisors	U	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	2	Can be used to prevent need for long term storage of manure
Degraded Plant Condition		
Undesirable Plant Productivity and Health	2	Treatment area will receive excess nutrients which could be toxic and diminish plant health.
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 - Inadequate Habitat		
Inadequate Habitat - Food	0	Not Applicable
Inadequate Habitat - Cover/Shelter	0	Not Applicable
Inadequate Habitat - Water	4	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	0	Area provides only limited additional space for most species.
Livestock Production Limitation		
Inadequate Feed and Forage	1	There may be some use of the planting for feed and forage by livestock.
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