Effects of NRCS Conservation Practices - National

Constructed Wetland

An artificial ecosystem with hydrophytic vegetation for water treatment.

Code: 656 Units: ac.

		Typical Landuse: CFRPPrFS OAL
Soil Erosion - Sheet and Rill Erosion	Effect 0	Rationale Not Applicable
Soil Erosion - Wind Erosion	0	Not Applicable
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	0	Not Applicable
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	Provide temporary flood storage.
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	0	Not Applicable
Water Quality Degradation Pesticides in Surface Water	2	The action captures pesticide residues and facilitates their degradation.
Pesticides in Groundwater	1	The action captures pesticide residues and facilitates their degradation.
Nutrients in Surface water	4	The action traps nutrients and organics which are broken down and used by wetland plants.
Nutrients in Groundwater	1	The action traps nutrients and organics which are broken down and used by wetland plants.
Salts in Surface Water	1	Any salts in surface runoff will be detained in the wetland. Some wetland plants may take up salts.
Salts in Groundwater	1	Any salinity in runoff or wastewater will be assimilated in the wetland rather than infiltrating to groundwater.
Excess Pathogens and Chemicals from Manure, Bio-solic	4	Pathogens are trapped in the wetland.
Excess Pathogens and Chemicals from Manure, Bio-solic	3	Microbial activity in wetlands can reduce pathogen levels.

Excessive Sediment in Surface Water	5	System traps and holds suspended materials from entering surface waters.	
Elevated Water Temperature	0	Footprint usually too small for effect.	
Petroleum, Heavy Metals and Other Pollutants Transporte	4	Vegetation and anaerobic conditions trap heavy metals.	
Petroleum, Heavy Metals and Other Pollutants Transporte	1	Heavy metals attached to sediment can be trapped in wetlands.	
Air Quality Impacts Emissions of Particulate Matter (PM) and PM Precursors	0	Not Applicable	
Emissions of Ozone Precursors	0	Not Applicable	
Emissions of Greenhouse Gases (GHGs)	1	The accumulation of organic matter and sediments sequester carbon. However, anaerobic conditions can promote the generation of methane.	
Objectionable Odors	-1	Anaerobic conditions can promote the generation of hydrogen sulfide and other odorous compounds.	
<u>Degraded Plant Condition</u> Undesirable Plant Productivity and Health	0	Not Applicable	
Inadequate Structure and Composition	4	Plants selected are adapted and suited.	
Excessive Plant Pest Pressure	-2	Could create habitat for noxious invasive plants	
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable	
Fish and Wildlife - Inadequate Habitat			
Inadequate Habitat - Food	3	Increased quality and quantity of vegetation provides more food for wildlife.	
Inadequate Habitat - Cover/Shelter	3	Increased quality and quantity of vegetation provides more cover for wildlife.	
Inadequate Habitat - Water	0	The wetland provides additional water but it will likely be chemical-laden and unfit for fish and wildlife use.	
Inadequate Habitat - Habitat Continuity (Space)	2	Additional wetland space is created.	
<u>Livestock Production Limitation</u> 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	
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		CPPE Practice Effects: 0 No Effect	

CPPE Practice Effects:	U NO Επεct
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