Effects of NRCS Conservation Practices - National

Wetland Enhancement

The augmentation of wetland functions beyond the original natural conditions on a former, degraded, or naturally functioning wetland site; sometimes at the expense of other functions.

Code: 659
Units: ac.

Typical Landuse:	C-Crop	F-Forest	R-Range	P-Pasture	Pr-Protected	FS-Farmstead	D-Developed	W-Water	O-Other	AL-Aso Land
	C	F	R	P	Pr		W	O	AL	

Soil Erosion	*Effect*	*Rationale*
Soil Erosion - Sheet and Rill Erosion	0	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	1	Water ponding promotes growth of wetland vegetation and reduces decomposition of soil organic matter.
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	Provides temporary flood storage reducing flooding and ponding.
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	1	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	3	Wetland systems will utilize dissolved nutrients and trap sediment-attached nutrients and organics.
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	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Pathogens are trapped in the wetland.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	**2**	**System traps sediment.**
Elevated Water Temperature	**0**	**Improved hydrological conditions are likely.**
Petroleum, Heavy Metals and Other Pollutants Transporte	**2**	**Vegetation and anaerobic conditions trap heavy metals.**
Petroleum, Heavy Metals and Other Pollutants Transporte	**0**	**Not Applicable**
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.**
Degraded Plant Condition		
Undesirable Plant Productivity and Health	**4**	**Plants are selected and managed to maintain optimal productivity and health for their intended use.**
Inadequate Structure and Composition	**4**	**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	**5**	**Existing areas for food are enhanced.**
Inadequate Habitat - Cover/Shelter	**5**	**Areas for cover/shelter are enhanced.**
Inadequate Habitat - Water	**0**	**Enhancement of wetlands will improve habitat and water quality for many species; the number and types of species that will benefit is dependent on the degree to which hydrological conditions are improved.**
Inadequate Habitat - Habitat Continuity (Space)	**4**	**Additional wetland space is enhanced.**
Livestock Production Limitation		
Inadequate Feed and Forage	**2**	**These sites may be used as feed and forage by livestock if the intended purpose is maintained.**
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:	
5 Substantial Improvement	*0 No Effect*
4 Moderate to Substantial Improvement	*-1 Slight Worsening*
3 Moderate Improvement	*-2 Slight to Moderate Worsening*
2 Slight to Moderate Improvement	*-3 Moderate Worsening*
1 Slight Improvement	*-4 Moderate to Substantial Worsening*
	-5 Substantial Worsening