

# Effects of NRCS Conservation Practices - National

## Wetland Creation

The creation of a wetland on a site location that was historically non-wetland.

Code: 658

Units: ac.

Typical Landuse:

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

<u>Soil Erosion</u>	<u>Effect</u>	<u>Rationale</u>
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
<u>Soil Quality Degradation</u>		
Organic Matter Depletion	2	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
<u>Excess Water</u>		
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	-1	Increases infiltration to subsurface water.
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
<u>Water Quality Degradation</u>		
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 Transport	2	Vegetation and anaerobic conditions trap heavy metals.
Petroleum, Heavy Metals and Other Pollutants Transport	0	Not Applicable
<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	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	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
<u>Fish and Wildlife - Inadequate Habitat</u>		
Inadequate Habitat - Food	5	Areas for food are created.
Inadequate Habitat - Cover/Shelter	5	Areas for cover/shelter are created.
Inadequate Habitat - Water	0	Created wetlands will benefit some species, but their creation can alter hydrology of the area.
Inadequate Habitat - Habitat Continuity (Space)	4	Additional wetland space is created.
<u>Livestock Production Limitation</u>		
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
<u>Inefficient Energy Use</u>		
Equipment and Facilities	0	Not Applicable
Farming/Ranching Practices and Field Operations	0	Not Applicable

<b><u>CPPE Practice Effects:</u></b>	<i>0 No Effect</i>
<i>5 Substantial Improvement</i>	<i>-1 Slight Worsening</i>
<i>4 Moderate to Substantial Improvement</i>	<i>-2 Slight to Moderate Worsening</i>
<i>3 Moderate Improvement</i>	<i>-3 Moderate Worsening</i>
<i>2 Slight to Moderate Improvement</i>	<i>-4 Moderate to Substantial Worsening</i>
<i>1 Slight Improvement</i>	<i>-5 Substantial Worsening</i>