Effects of NRCS Conservation Practices - National

Open Channel

Constructing or improving a channel either natural or artificial, in which water flows with a free surface

Code: 582
Units: ft.

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	FS	D	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	2	Stabilized channel bottom and sides.
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	1	Water conveyance reduces seepage.
Excess Water - Runoff, Flooding, or Ponding	5	Channel capacity accommodates runoff and reduces flooding and ponding.
Excess Water - Seasonal High Water Table	2	Provides suitable outlets and facilitates drainage.
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	-1	Rapid removal of water off site has the potential to decrease infiltration, thus increasing contamination of surface water.
Nutrients in Groundwater	0	Rapid removal of water off site has the potential to decrease infiltration, thus decreasing contamination of ground water.
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Rapid removal of water off site has the potential to decrease infiltration, thus decreasing contamination of ground water.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	**0**	**Change in alignment, capacity, and velocity will cause a temporary increase in sediments and turbidity.**
Elevated Water Temperature	**0**	**The action conveys water quickly and will not result in increased surface water temperatures.**
Petroleum, Heavy Metals and Other Pollutants Transporte	**-1**	**Rapid movement of water off site will tend to move contaminants in surface water.**
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)	**0**	**Not Applicable**
Objectionable Odors	**0**	**Not Applicable**
Degraded Plant Condition		
Undesirable Plant Productivity and Health	**0**	**Not Applicable**
Inadequate Structure and Composition	**0**	**Not Applicable**
Excessive Plant Pest Pressure	**0**	**Not Applicable**
Wildfire Hazard, Excessive Biomass Accumulation	**0**	**Not Applicable**
Fish and Wildlife - Inadequate Habitat		
Inadequate Habitat - Food	**0**	**Constructing or improving channels may increase or decrease food for fish and wildlife.**
Inadequate Habitat - Cover/Shelter	**0**	**Constructing or improving channels may increase or decrease cover/shelter for fish and wildlife.**
Inadequate Habitat - Water	**0**	**Flow through the channel is accelerated reducing slow-water habitat.**
Inadequate Habitat - Habitat Continuity (Space)	**0**	**Constructing or improving channel may increase or decrease food and habitat for fish and wildlife depending on species and the vegetation of the stabilized channel..**
Livestock Production Limitation		
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**

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