

Effects of NRCS Conservation Practices - National

Underground Outlet

A conduit or system of conduits installed beneath the surface of the ground to convey surface water to a suitable outlet.

Code: 620

Units: ft.

Typical Landuse:

AL-Aso Land
O-Other
W-Water
D-Developed
FS-Farmstead
Pr-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	5	Concentrated flow is eliminated and excess water conveyed to safe outlet
Soil Erosion - Classic Gully Erosion	4	Concentrated flow is reduced or eliminated and excess water conveyed to safe outlet.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	-1	Concentrated flows are directed to surface streams at an accelerated rate.
<u>Soil Quality Degradation</u>		
Organic Matter Depletion	0	Not Applicable
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	The action removes concentrated flows before they infiltrate.
Excess Water - Runoff, Flooding, or Ponding	4	Ponding and flooding are conveyed to a safe outlet.
Excess Water - Seasonal High Water Table	0	The action removes concentrated flows before they infiltrate.
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	Underground outlets can provide a direct conduit for runoff to surface waters
Pesticides in Groundwater	0	Not Applicable
Nutrients in Surface water	-1	Underground outlets can provide a direct conduit for runoff to surface waters
Nutrients in Groundwater	0	Not Applicable
Salts in Surface Water	0	The action does not increase or decrease the amount of salt lost from a field.
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	-1	Underground outlets can provide a direct conduit for runoff contaminated with pathogens to surface waters
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	0	Slowing water in associated structures will cause sediment to settle.
Elevated Water Temperature	0	Water collected subsurface will remain relatively cool.
Petroleum, Heavy Metals and Other Pollutants Transport	1	Decrease in erosion will lead to decrease in sediment bound contaminants, but practice can increase the delivery of soluble contaminants.
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)	0	Not Applicable
Objectionable Odors	0	Not Applicable
<u>Degraded Plant Condition</u>		
Undesirable Plant Productivity and Health	2	Removal of excess surface water can positively affect plant growth and vigor
Inadequate Structure and Composition	0	Not Applicable
Excessive Plant Pest Pressure	0	Not Applicable
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable
<u>Fish and Wildlife - Inadequate Habitat</u>		
Inadequate Habitat - Food	0	Not Applicable
Inadequate Habitat - Cover/Shelter	0	Not Applicable
Inadequate Habitat - Water	0	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
<u>Livestock Production Limitation</u>		
Inadequate Feed and Forage	0	Not Applicable
Inadequate Shelter	0	Not Applicable
Inadequate Water	0	Not Applicable
<u>Inefficient Energy Use</u>		
Equipment and Facilities	1	Equipment will not need to cross gullies nor do tillage to fill the gullies
Farming/Ranching Practices and Field Operations	1	Equipment will not need to cross gullies nor do tillage to fill the gullies

<u>CPPE Practice Effects:</u>	<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>