

# Effects of NRCS Conservation Practices - National

## Diversion

A channel generally constructed across the slope with a supporting ridge on the lower side.

Code: 362

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	1	A channel across the slope reduces the slope length and the opportunity for runoff water to detach soil particles.
Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	2	A channel constructed across the slope intercepts surface flow and decreases soil detachment by water.
Soil Erosion - Classic Gully Erosion	2	Overland flow is diverted from gully.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	1	Reduces overland flow to stream.
<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	-1	Seepage may increase due to temporary storage behind the diversion.
Excess Water - Runoff, Flooding, or Ponding	2	Water is diverted and prevented from ponding or flooding.
Excess Water - Seasonal High Water Table	2	Intercepts shallow subsurface flows.
Excess Water - Drifted Snow	0	Not Applicable
<u>Insufficient Water</u>		
Insufficient Water - Inefficient Use of Irrigation Water	2	May help capture and reuse runoff.
Insufficient Water - Inefficient Moisture Management	2	May collect or direct water for water-spreading or water-harvesting systems.
<u>Water Quality Degradation</u>		
Pesticides in Surface Water	1	The action diverts water from the pesticide application site.
Pesticides in Groundwater	1	The action diverts water from the pesticide application site.
Nutrients in Surface water	0	Diversions will trap some sediment, reducing the amount of sediment-adsorbed nutrients delivered off-site. Because diversions concentrate overland flows, there can be an increase in solubles offsite.
Nutrients in Groundwater	-1	The action increases infiltration which may provide transport for nutrients.
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Enables better runoff management
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	2	Diversions collect and slow run-off to a non-erosive velocity.														
Elevated Water Temperature	0	The action controls surface erosion and surface water movement.														
Petroleum, Heavy Metals and Other Pollutants Transport	1	Controlled runoff reduces erosion and heavy metals attached to associated sediment.														
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	Water is managed to optimize moisture requirements for plants.														
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	1	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	0	Not Applicable														
Farming/Ranching Practices and Field Operations	0	Not Applicable														
		<table border="1"> <thead> <tr> <th colspan="2"><u>CPPE Practice Effects:</u></th> </tr> </thead> <tbody> <tr> <td>5 Substantial Improvement</td> <td>0 No Effect</td> </tr> <tr> <td>4 Moderate to Substantial Improvement</td> <td>-1 Slight Worsening</td> </tr> <tr> <td>3 Moderate Improvement</td> <td>-2 Slight to Moderate Worsening</td> </tr> <tr> <td>2 Slight to Moderate Improvement</td> <td>-3 Moderate Worsening</td> </tr> <tr> <td>1 Slight Improvement</td> <td>-4 Moderate to Substantial Worsening</td> </tr> <tr> <td></td> <td>-5 Substantial Worsening</td> </tr> </tbody> </table>	<u>CPPE Practice Effects:</u>		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
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