

Effects of NRCS Conservation Practices - National

Irrigation Canal or Lateral

A permanent channel constructed to convey irrigation water from the source of supply to one or more irrigated areas.

Code: 320

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

Soil Erosion

	<u>Effect</u>	<u>Rationale</u>
Soil Erosion - Sheet and Rill Erosion	0	A channel constructed across the slope may intercept runoff water and shorten the slope length.
Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	0	A channel constructed across the slope may intercept runoff water.
Soil Erosion - Classic Gully Erosion	0	May prevent small amounts of erosion
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable

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	0	Canal may provide outlet for seepage, however canals may provide a source of seepage.
Excess Water - Runoff, Flooding, or Ponding	2	The canal may intercept runoff and act as floodways.
Excess Water - Seasonal High Water Table	-2	May provide a water source for infiltration that will add to subsurface water.
Excess Water - Drifted Snow	0	Not Applicable

Insufficient Water

Insufficient Water - Inefficient Use of Irrigation Water	5	Canals transport water to areas of irrigation use.
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	-2	Return flows from canals may deliver dissolved and sediment-attached nutrients to surface water.
Nutrients in Groundwater	0	Not Applicable
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	-2	Return flows from canals may deliver possible contaminates to surface water
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	0	Not Applicable
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transport	0	Canal could distribute water more efficiently or could increase return flows that deliver contaminants to surface water.
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	Increased water availability enhances plant growth, health 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	Vegetated canals may provide food for fish.
Inadequate Habitat - Cover/Shelter	0	Vegetated canals may provide cover for fish.
Inadequate Habitat - Water	0	Water will be temporarily available in the canal.
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

<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>