

Effects of NRCS Conservation Practices - National

Waterspreading

A system of dams, dikes, ditches, or other means of diverting or collecting runoff from natural channels, gullies, or streams and spreading it over relatively flat areas.

Code: 640

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	-1	Because of higher concentration and velocities from water collection.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
<u>Soil Quality Degradation</u>		
Organic Matter Depletion	1	The action increases water infiltration and plant uptake, increasing biomass production.
Compaction	0	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	1	Increased infiltration may permit leaching of some salts below the root zone.
<u>Excess Water</u>		
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	1	Reduces runoff, ponding, and increase infiltration.
Excess Water - Seasonal High Water Table	-1	Reduces runoff, ponding, and increase infiltration.
Excess Water - Drifted Snow	0	Not Applicable
<u>Insufficient Water</u>		
Insufficient Water - Inefficient Use of Irrigation Water	1	Water is collected for more efficient use.
Insufficient Water - Inefficient Moisture Management	2	Water is distributed for more efficient use.
<u>Water Quality Degradation</u>		
Pesticides in Surface Water	1	The action reduces runoff.
Pesticides in Groundwater	-1	The action increases infiltration
Nutrients in Surface water	2	The action impounds surface water which reduces the potential to transport nutrients and organics downstream.
Nutrients in Groundwater	-1	The action impounds water which has the potential to transport nutrients to groundwater.
Salts in Surface Water	1	The action increases infiltration, increasing leaching potential and reducing the potential for moving salts to surface water.
Salts in Groundwater	-1	The action results in increased infiltration and potential for moving soluble salts to ground water.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	-1	The action results in increased infiltration and potential for leaching soil contaminates.

Excessive Sediment in Surface Water	0	Not Applicable														
Elevated Water Temperature	0	Diverted water does not generally return to surface water source.														
Petroleum, Heavy Metals and Other Pollutants Transport	1	The action increases infiltration and reduces surface runoff.														
Petroleum, Heavy Metals and Other Pollutants Transport	-1	The action results in increased infiltration and potential for leaching soil contaminates.														
<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	Site modification to improve irrigation application enhances the health and vigor of desired species.														
Inadequate Structure and Composition	0	Not Applicable														
Excessive Plant Pest Pressure	1	Improved soil moisture facilitates improved health and vigor of desirable vegetation therefore reducing invasion of noxious weed.														
Wildfire Hazard, Excessive Biomass Accumulation	0	Not Applicable														
<u>Fish and Wildlife - Inadequate Habitat</u>																
Inadequate Habitat - Food	2	Improved soil moisture may increase plant diversity and production as food for wildlife.														
Inadequate Habitat - Cover/Shelter	2	Improved soil moisture may increase plant diversity and production used as cover for wildlife.														
Inadequate Habitat - Water	0	Spreading temporarily concentrates natural precipitation.														
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable														
<u>Livestock Production Limitation</u>																
Inadequate Feed and Forage	4	Production will be improved with uniform and consistent application of water.														
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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