## **Effects of NRCS Conservation Practices - National**

## Spring Development

Collection of water from springs or seeps to provide water for a conservation need.

Soil Frosion	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	1	Collection of water reduces runoff.	
Soil Erosion - Streambank, Shoreline, Water Conveyance C	1	Spring development removes seeps and flows that keep stream banks satur	
<u>Soil Quality Degradation</u> Organic Matter Depletion	0	Not Applicable	
Compaction	-1	Increased animal traffic around developed water source will increase compa	
Subsidence	0		
Concentration of Salts or Other Chemicals	0	Not Applicable	
Excess Water			
Excess Water - Seeps	2	Water collected and removed from site.	
Excess Water - Runoff, Flooding, or Ponding	1	Water collected and removed from site.	
Excess Water - Seasonal High Water Table	2	Subsurface water collected and removed from the site.	
Excess Water - Drifted Snow	0	Not Applicable	
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	2	Provides a dependable supply of water allowing improved management.	
Insufficient Water - Inefficient Moisture Management	2	Provides a dependable supply of water allowing improved management.	
<u>Water Quality Degradation</u> Pesticides in Surface Water	0	Not Applicable	
Pesticides in Groundwater	0	Not Applicable	
Nutrients in Surface water	0	Not Applicable	
Nutrients in Groundwater	0	Not Applicable	
Salts in Surface Water	1	Spring flows provide some dilution effect.	
Salts in Groundwater	0	Not Applicable	
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Spring flows are typically better quality than surface flows allowing opportu flow to the other.	
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable	

Code: 574 Units: no. Typical Landuse: C F P Pr S D O AL

rated and easily erodible.

action potential especially if the soil is moist.

unity for dilution. Effect depends on the proportion of one

Excessive Sediment in Surface Water	1	Water development will decrease livestock trampling in wet areas and nearby streams.				
Elevated Water Temperature	0	Springs are cooler than surface water and their proximity to streams moderates stream temperatures, via hyporheic exchange. Development of springs may decrease amount of hyporheic water in channel				
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Spring flows are typically better quality than surface flows allowing opportunity for dilution. Effect depends on the proportion of one flow to the other.				
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	2	Available water to facilitate irrigation or grazing management improves growth and vigor of plants.				
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	Not Applicable				
Inadequate Habitat - Cover/Shelter	0	Not Applicable				
Inadequate Habitat - Water	0	Provides water for terrestrial species.				
Inadequate Habitat - Habitat Continuity (Space)	2	Additional habitat/space is available once spring water is available.				
Livestock Production Limitation						
Inadequate Feed and Forage	2	Improved distribution of animals makes forage more readily available to livestock.				
Inadequate Shelter	0	Not Applicable				
Inadequate Water	5	The spring increases the quality and quantity of water for livestock.				
nefficient Energy Use						
Equipment and Facilities	0	Not Applicable				
Farming/Ranching Practices and Field Operations	0	Not Applicable				
			CPPE Practice Effects:	0 No Effect		
			5 Substantial Improvement	-1 Slight Worsening		
			4 Moderate to Substantial Improvement	-2 Slight to Moderate Worsening		
			3 Moderate Improvement	-3 Moderate Worsening		
			2 Slight to Moderate Improvement	-4 Moderate to Substantial Worsening		
			1 Slight Improvement	-5 Substantial Worsening		