Effects of NRCS Conservation Practices - National

Water Well

A hole drilled, dug, driven, bored, jetted or otherwise constructed to an aquifer for water supply.

Code: 642
Units: no

Typical Landuse:	C-Crop	F-Forest	R-Range	P-Pasture	Pr-Protected	FS-Farmstead	D-Developed	W-Water	O-Other	AL-Aso Land
	C	F	R	P	Pr	FS	D		O	AL

Soil Erosion	Effect	Rationale
Soil Erosion - Sheet and Rill Erosion	2	Increased vegetated cover due to better distribution of water reduces soil erosion.
Soil Erosion - Wind Erosion	2	Increased vegetated cover due to better distribution of water reduces soil erosion.
Soil Erosion - Ephemeral Gully Erosion	2	Increased vegetated cover due to better distribution of water reduces soil erosion.
Soil Erosion - Classic Gully Erosion	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
Soil Quality Degradation		
Organic Matter Depletion	0	Not Applicable
Compaction	0	The action involves production rather than distribution of available water.
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	1	Where well flows are used for irrigation, contaminants can be leached below the root zone.
Excess Water		
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	2	Water is removed from subsurface water source.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water		
Insufficient Water - Inefficient Use of Irrigation Water	2	Well development will provide a dependable supply of water allowing more concentrated management.
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	0	Not Applicable
Nutrients in Groundwater	0	Not Applicable
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	In coastal areas pumping fresh groundwater may allow the intrusion of saltwater.
Excess Pathogens and Chemicals from Manure, Bio-solic	-1	Use of wells to irrigate previously non irrigated land will increase the likelihood of soluble and sediment-attached contaminants moving of-site. Probable less contaminants on grazing lands
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 Transporte	0	Not Applicable
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	1	Increased availability and managed application of irrigation water 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
Fish and Wildlife - Inadequate Habitat		
Inadequate Habitat - Food	0	Not Applicable
Inadequate Habitat - Cover/Shelter	0	Not Applicable
Inadequate Habitat - Water	2	Provides dependable water supply to livestock and wildlife in areas where surface water is scant.
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
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	Wells facilitate the availability and distribution of water.
Inefficient Energy Use		
Equipment and Facilities	0	A properly designed well will allow use of an efficient pumping system.
Farming/Ranching Practices and Field Operations	0	Not Applicable

CPPE Practice Effects:	
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