Effects of NRCS Conservation Practices - National

Irrigation Reservoir

An irrigation water storage structure made by constructing a dam, embankment, pit, or tank.

Code: 436
Units: ac.

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	W	O	AL

Soil Erosion	*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	2	Due to stabilization gully from embankment construction.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	1	Reduced peak flows downstream from reservoir.
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	-1	Possible seepage from Reservoir.
Excess Water - Runoff, Flooding, or Ponding	2	Peak flows are reduced.
Excess Water - Seasonal High Water Table	-1	Seepage from reservoir.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water		
Insufficient Water - Inefficient Use of Irrigation Water	2	Storage water for irrigation can be used in amore timely fashion increasing efficiency.
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	-1	Nutrients impounded could contaminate groundwater.
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	May increase because of aquatic animal feed or decaying vegetation.
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	**2**	**Sediment is trapped as water velocity is reduced.**
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	**2**	**Increased water availability and access 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	**2**	**Reservoirs provide food for some fish and wildlife.**
Inadequate Habitat - Cover/Shelter	**-1**	**Any cover is eliminated in the area used for the reservoir.**
Inadequate Habitat - Water	**0**	**Reservoirs provide water for wildlife; however entrapment, especially of fish and salamanders, as waters recede or are withdrawn.**
Inadequate Habitat - Habitat Continuity (Space)	**-1**	**Reservoirs reduce existing space used by wildlife.**
Livestock Production Limitation		
Inadequate Feed and Forage	**0**	**Not Applicable**
Inadequate Shelter	**0**	**Not Applicable**
Inadequate Water	**4**	**Reservoirs can also provide stock water.**
Inefficient Energy Use		
Equipment and Facilities	**0**	**Not Applicable**
Farming/Ranching Practices and Field Operations	**2**	**Allows for off-peak or night time irrigation, will can result in reduced energy use for pumping.**

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