## Effects of NRCS Conservation Practices - National

**Sediment Basin** 

A basin constructed with an engineered outlet, formed by an embankment or excavation or a combination of the two.

Code: 350 Units: no.

7

O-Other
W-Water
D-Developed
FS-Farmstead
Pr-Protected
P-Pasture
R-Range

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		Typical Landuse: CFRPPrFSDOAL
Soil Erosion Soil Erosion - Sheet and Rill Erosion	<u>Effect</u> 0	Rationale  Not Applicable
Soli Elosion - Sheet and Kill Elosion	U	Not Applicable
Soil Erosion - Wind Erosion	0	Not Applicable
Soil Erosion - Ephemeral Gully Erosion	2	Controlled flow will reduce gulley erosion down slope of basin
Soil Erosion - Classic Gully Erosion	2	Controlled flow will reduce gulley erosion down slope of basin.
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Stream bank erosion due to flows are reduced because of controlled flows, but 'clean' water from basin could create stream bank erosion.
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 - Seeps	-2	Stored water in basin will infiltrate adding to seepage problem.
Excess Water - Runoff, Flooding, or Ponding	2	Basin will retard flows reducing the runoff and controlling water releases.
Excess Water - Seasonal High Water Table	-2	Retarded water in basin will infiltrate adding to subsurface water.
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
Water Quality Degradation Pesticides in Surface Water	2	The action collects and stores adsorbed pesticides.
Pesticides in Groundwater	-1	Water containing pesticides may seep from the basin.
Nutrients in Surface water	5	The action will tend to accumulate contaminants attached to sediments, and infiltrating waters will remove soluble contaminants.
Nutrients in Groundwater	-1	Nutrients impounded could contaminate groundwater.
Salts in Surface Water	2	Basins will tend to accumulate contaminants attached to sediments, and infiltrating waters will remove soluble contaminants.
Salts in Groundwater	-1	Infiltrating water in the basin may move soluble salts to ground water.
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Basins will tend to accumulate contaminants attached to sediments, and infiltrating waters will remove soluble contaminants
Excess Pathogens and Chemicals from Manure, Bio-solic	-1	Infiltrating water in the basin may move pathogens to the ground water.

Excessive Sediment in Surface Water	4	Basin retains sediment, decreasing runoff turbidity.
Elevated Water Temperature	0	Although water retained in basin is warmer than flowing surface water, discharge to surface waters is unlikely.
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Basins will tend to accumulate contaminants attached to sediments.
Petroleum, Heavy Metals and Other Pollutants Transporte	-1	Infiltrating water in the basin may move soluble contaminants to the ground water.
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	Proper siting and management are required If used as part of an agricultural waste management system
<u>Degraded Plant Condition</u> Undesirable Plant Productivity and Health	0	Not Applicable
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	-1	Any food species are eliminated in the area used for the basin.
Inadequate Habitat - Cover/Shelter	-1	Any cover is eliminated in the area used for the basin.
Inadequate Habitat - Water	0	Water is temporarily stored, and sediment and debris are removed from runoff.
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
Livestock Production Limitation Inadequate Feed and Forage	0	Not Applicable
Inadequate Shelter	0	Not Applicable
Inadequate Water	0	Captured water in basins can supplement stock water.
Inefficient Energy Use Equipment and Facilities	0	Not Applicable
Farming/Ranching Practices and Field Operations	0	Not Applicable
		CRDE Propries Effects

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