Effects of NRCS Conservation Practices - National

Anionic Polyacrylamide (PAM) Erosion Control

Application of water-soluble Anionic Polyacrylamide (PAM) to meet a resource concern.

Code: 450
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	2	Application aggregates soil particles making them less susceptible to detachment from flowing water.
Soil Erosion - Wind Erosion	2	Application aggregates soil particles making them less susceptible to detachment from wind energy.
Soil Erosion - Ephemeral Gully Erosion	2	Application aggregates soil particles making them less susceptible to detachment from concentrated flow.
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	Not Applicable
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Not Applicable
Excess Water		
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	0	Not Applicable
Excess Water - Drifted Snow	0	Not Applicable
Insufficient Water		
Insufficient Water - Inefficient Use of Irrigation Water	1	Minimizing furrow erosion allows a higher water flow in the furrow that provides more efficient application.
Insufficient Water - Inefficient Moisture Management	0	Not Applicable
Water Quality Degradation		
Pesticides in Surface Water	2	The action decreases runoff and erosion.
Pesticides in Groundwater	-1	The action increases infiltration.
Nutrients in Surface water	2	Because irrigation-induced erosion is reduced, there is less delivery of sediment-attached nutrients to be carried off-site to surface water.
Nutrients in Groundwater	-1	The action increases infiltration.
Salts in Surface Water	0	Not Applicable
Salts in Groundwater	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable
Excess Pathogens and Chemicals from Manure, Bio-solic	0	Not Applicable

Excessive Sediment in Surface Water	**4**	**The action reduces erosion and sediment load**
Elevated Water Temperature	**0**	**Not Applicable**
Petroleum, Heavy Metals and Other Pollutants Transporte	**1**	**PAM will reduce transport of heavy metals attached to soils.**
Petroleum, Heavy Metals and Other Pollutants Transporte	**0**	**Not Applicable**
Air Quality Impacts		
Emissions of Particulate Matter (PM) and PM Precursors	**2**	**Application of PAM can reduce the susceptibility of soil to wind erosion.**
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	**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	**0**	**Not Applicable**
Inadequate Habitat - Cover/Shelter	**0**	**Not Applicable**
Inadequate Habitat - Water	**2**	**Not Applicable**
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**	**Not Applicable**
Inefficient Energy Use		
Equipment and Facilities	**0**	**Not Applicable**
Farming/Ranching Practices and Field Operations	**2**	**Reduces seepage losses which 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