Effects of NRCS Conservation Practices - National							
Irrigation Water Managen	nent	Codo: 440					
Irrigation water management is the process of determined, efficient manner.	J and controlling the volume, frequency, and application rate of irrigation Units: ac. T-Farmstead defer and C-Office of the rest of the						
Soil Frasian	Effoct	Typical Landuse: C F R P Pr FS D W O AL					
Soil Erosion - Sheet and Rill Erosion	0	Not Applicable					
Soil Erosion - Wind Erosion	2	Managing water to maintain surface moisture reduces soil detachment by wind.					
Soil Erosion - Ephemeral Gully Erosion	0	Not Applicable					
Soil Erosion - Classic Gully Erosion	0	Not Applicable					
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable					
<u>Soil Quality Degradation</u> Organic Matter Depletion	1	The action promotes optimum biomass production.					
Compaction	0	Not Applicable					
Subsidence	0	Not Applicable					
Concentration of Salts or Other Chemicals	2	Water can be managed to leach salts and chemicals below the root zone					
<u>Excess Water</u> Excess Water - Seeps	0	Not Applicable					
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable					
Excess Water - Seasonal High Water Table	1	Management of irrigation water will help reduce excess subsurface water.					
Excess Water - Drifted Snow	0	Not Applicable					
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	2	Managed application of water for irrigation will increase the efficiency of use.					
Insufficient Water - Inefficient Moisture Management	0	Not Applicable					
<u>Water Quality Degradation</u> Pesticides in Surface Water	2	Controlling the volume, frequency, and application rate of irrigation water reduces runoff and erosion that may carry pesticides into					
Pesticides in Groundwater	2	Controlling the volume, frequency, and application rate of irrigation water reduces deep percolation.					
Nutrients in Surface water	2	Water is applied at rates that reduce the potential for erosion and detachment, and minimize nutrient transport to surface water.					
Nutrients in Groundwater	2	Water is applied at rates and times that minimize nutrient transport to ground water.					
Salts in Surface Water	2	Water is applied at rates that minimize salinity transport to surface water.					
Salts in Groundwater	2	Water is applied at rates that minimize salinity transport to ground water.					
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Water is applied at rates that minimize pathogens transport to surface water					
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Water is applied at rates that minimize pathogen transport to ground water.					

Excessive Sediment in Surface Water	2	Water is applied at rates that minimize soil erosion.				
Elevated Water Temperature	0	Conservation irrigation systems minimize affects to surface water quality.				
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Water is applied at rates that minimize heavy metals transport to surface water.				
Petroleum, Heavy Metals and Other Pollutants Transporte	2	Water is applied at rates that minimize heavy metal transport to ground water.				
Air Quality Impacts						
Emissions of Particulate Matter (PM) and PM Precursors	2	Maintaining adequate soil moisture content reduces the potential soil erodibility and increases crop growth and resi				
Emissions of Ozone Precursors	0	Not Applicable				
Emissions of Greenhouse Gases (GHGs)	1	Increased vegetative growth from irrigation can improve carbon sequestration in a reduced tillage system.				
Objectionable Odors	0	Not Applicable				
Degraded Plant Condition						
Undesirable Plant Productivity and Health	2	Managed application of water enhances plant growth, health and vigor.				
Inadequate Structure and Composition	0	Not Applicable				
Excessive Plant Pest Pressure	1	Improved irrigation efficiency improves crop health and vigor which decreases weed competition.				
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	Not Applicable				
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable				
Livestock Production Limitation						
Inadequate Feed and Forage	4	Production will be improved with uniform and consistent application of water.				
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	Improvement of Irrigation Efficiency can result in reduced energy use for pumping.				
			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		