## Effects of NPCS Conservation Practices - National

Effects of NRCS	<u>, CO</u>	nservation Practices - National		
Vertical Drain			Code: 630	₽Ÿ₽
A well, pipe, pit, or bore in porous, underground st groundwater resources.	rata int	o which drainage water can be discharged without contaminating	Units: no.	Aso Land O-Other W-Water Developed Farmstead F-Protected P-Pasture R-Range F-Forest C-Crop
			Typical Landuse:	CFRPPrFSDL OAL
Soil Erosion - Sheet and Rill Erosion	<u>Effect</u> 0	<u>Rationale</u> Not Applicable		
Soil Erosion - Wind Erosion	0	Not Applicable		
Soil Erosion - Ephemeral Gully Erosion	0	Not Applicable		
Soil Erosion - Classic Gully Erosion	1	Runoff is captured and discharged subsurface reducing erosion potential.		
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	Surface water removal may result in increased oxidation of organic matter.		
Concentration of Salts or Other Chemicals	0	Not Applicable		
<u>Excess Water</u> Excess Water - Seeps	0	Surface water introduced to strata below the zones conducive to seepage.		
Excess Water - Runoff, Flooding, or Ponding	4	Surface and subsurface drainage diverted to underground strata and not available to su	urface problems.	
Excess Water - Seasonal High Water Table	-2	Diversion of surface water to subsurface will increase any existing problems.		
Excess Water - Drifted Snow	0	Not Applicable		
nsufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Not Applicable		
Insufficient Water - Inefficient Moisture Management	0	Not Applicable		
<u>Nater Quality Degradation</u> Pesticides in Surface Water	0	Not Applicable		
Pesticides in Groundwater	-2	Water entering the drain may contain pesticide residues.		
Nutrients in Surface water	1	Nutrients in the water diverted into a vertical drain is kept out of surface water.		
Nutrients in Groundwater	-2	Water conveyed to subsurface strata may contain organics and nutrients.		
Salts in Surface Water	1	Water containing salt could be diverted from a surface outlet to the subsurface.		
Salts in Groundwater	-1	Water containing soluble salts is outlet below the soil surface where it may reach groun	ıdwater.	
Excess Pathogens and Chemicals from Manure, Bio-solic	1	Water diverted subsurface reduces surface runoff.		
Excess Pathogens and Chemicals from Manure, Bio-solic	-1	Water diverted to the subsurface may contain some pathogens.		

Excessive Sediment in Surface Water	1	Water diverted subsurface will reduce surface water flows.
Elevated Water Temperature	0	Diversion of drainage water subsurface removes water from surface flows.
Petroleum, Heavy Metals and Other Pollutants Transporte	1	Water diverted subsurface will reduce metal transport to surface waters.
Petroleum, Heavy Metals and Other Pollutants Transporte	-1	Water diverted to the subsurface may contain some heavy metals.
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	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	0	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	0	Not Applicable
ivestock Production Limitation		
Inadequate Feed and Forage	0	Not Applicable
Inadequate Shelter	0	Not Applicable
Inadequate Water	0	Not Applicable
nefficient Energy Use		
Equipment and Facilities	0	Not Applicable
Farming/Ranching Practices and Field Operations	0	Not Applicable
		CDDE Droctico Effector
		5 Substantial Improvement
		4 Moderate to Substantial Improvement
		3 Moderate Improvement

1 Slight Improvement

	0 No Effect
	-1 Slight Worsening
rement	-2 Slight to Moderate Worsening
	-3 Moderate Worsening
t	-4 Moderate to Substantial Worsening
	-5 Substantial Worsening