## Effects of NRCS Conservation Practices - National

## **Waste Treatment**

The mechanical, chemical or biological treatment of agricultural waste.

Code: 629 Units: no

9 |

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

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Soil Erosion	Effect	Typical Landuse: FS  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	0	Not Applicable
Soil Erosion - Streambank, Shoreline, Water Conveyance C	0	Not Applicable
Soil Quality Degradation Organic Matter Depletion	1	Using amendments and separation could create high organic residues that when land applied could increase soil organic matter in excess of the application of untreated manure
Compaction	1	If the treatment process includes a storage component, it will allow better management of waste as to rate and timing of application, which allows application when compaction is least likely.
Subsidence	0	Not Applicable
Concentration of Salts or Other Chemicals	0	Could be slight worsening to slight improvement depending on whether salts are concentrated or removed from the land applied waste stream
Excess Water - Seeps	0	Not Applicable
Excess Water - Runoff, Flooding, or Ponding	0	Not Applicable
Excess Water - Seasonal High Water Table	0	Treatment with some amendments such as PAM could alter the intake rates of soils receiving an altered waste stream,
Excess Water - Drifted Snow	0	Not Applicable
<u>Insufficient Water</u> Insufficient Water - Inefficient Use of Irrigation Water	1	Altered waste stream with minimum solids will be compatible with irrigation needs
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	2	Amendments and other treatment options are often used to remove nutrients and organics from the waste stream
Nutrients in Groundwater	2	Amendments and other treatment options are often used to remove nutrients and organics from the waste stream
Salts in Surface Water	2	Treatment options such as amendments can be used to alter the waste stream to remove salts, metals, and some pathogens.
Salts in Groundwater	2	Amendments and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Treatment options such as amendments can be used to alter the waste stream to remove salts, metals, and some pathogens.
Excess Pathogens and Chemicals from Manure, Bio-solic	2	Amendments and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.

Excessive Sediment in Surface Water	0	Not Applicable
Elevated Water Temperature	0	Not Applicable
Petroleum, Heavy Metals and Other Pollutants Transports	2	Treatment options such as amendments can be used to alter the waste stream to remove salts, metals, and some pathogens.
Petroleum, Heavy Metals and Other Pollutants Transports	2	Amendments and other treatment options can be used to alter the waste stream to remove salts, metals, and some pathogens.
Air Overlife Insurante		
Air Quality Impacts		
Emissions of Particulate Matter (PM) and PM Precursors	1	Some treatment options may result in less particulate matter and ammonia emissions.
Emissions of Ozone Precursors	1	Some treatment options may result in less VOC emissions.
Emissions of Greenhouse Gases (GHGs)	1	Some treatment options may result in less methane or nitrous oxide emissions.
Objectionable Odors	4	A number of treatment options are very successful in reducing odor emissions from manure
Degraded Plant Condition		
Undesirable Plant Productivity and Health	2	Treatment can alter the waste stream to better meet the needs of the plant
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
madequate Habitat - 1 ood	· ·	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	0	Treatment could favorably alter the waste stream to better provide the needs of growing feed and forage, but this would be minor impact
Inadequate Shelter	0	Not Applicable
Inadequate Water	1	Some alternatives are used to treat the waste stream to the point water can be reused by livestock
Inefficient Energy Use		
Equipment and Facilities	0	Not Applicable
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Farming/Ranching Practices and Field Operations	0	Not Applicable

SPPE Practice Effects:	0 No Effect
Substantial Improvement	-1 Slight Worsening
Moderate to Substantial Improvement	-2 Slight to Moderate Worsening
B Moderate Improvement	-3 Moderate Worsening
Slight to Moderate Improvement	-4 Moderate to Substantial Worsening

1 Slight Improvement

-5 Substantial Worsening