

**Practice: 634 - Waste Transfer**

**Scenario: #20 - Waste hauling**

**Scenario Description:**

This scenario describes hauling of animal manure to agricultural land for final utilization. This scenario can be used for any distances greater than 10 miles. It is intended to be used in high risk water quality drainage areas or when soil test phosphorus exceeds the allowable limit on fields that have typically been used for manure application. This waste transfer payment is intended to offset additional costs associated with hauling the manure out of the high risk drainage area or transported a longer distance to fields with low soil test phosphorus. Limits of soil test phosphorus for contracting purposes need to meet acceptable state criteria.

Associated practices may include: PS 313 Waste Storage Facility for storage structures; PS 533, Pumping Plant; PS 430, Irrigation Pipeline; PS 632, Solid/Liquid Waste Separation Facility; PS 468, Lined Waterway or Outlet; PS 590 Nutrient Management for waste application; PS 633, Waste Recycling and Concrete channel and Transfer conduit scenario 634 - Waste Transfer.

This practice scenario addresses the water quality concerns for excessive nutrients or degradation of water resources from over application of manure on local fields.

**Before Situation:**

The local drainage area is at high risk for phosphorus leaving the fields in the runoff solution and further manure waste application will likely cause water quality degradation.

**After Situation:**

Trucks are loaded with 80 tons of manure solids and hauled 55 miles outside of the high risk drainage area to a location where phosphorus levels are in the low risk category according to the PhosphorusRisk index for leaving the fields. Waste is transferred out of the critical drainage area for use as fertilizer on crops and pasture land.

**Scenario Feature Measure:** Ton of waste and miles hauled

**Scenario Unit:** Ton-mile

**Scenario Typical Size:** 4,400

**Scenario Cost:** \$783.47

**Scenario Cost/Unit:** \$0.18

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Manure Hauling, solid manure, transportation	2031	Transportation cost of hauling solid manure. Trucking costs based on tons hauled times miles. Includes equipment, power unit and labor. Does not include costs for loading or unloading.	Ton-Mile	\$0.12	4400	\$528.00
<b>Mobilization</b>						
Mobilization, large equipment	1140	Equipment >150HP or typical weights greater than 30,000 pounds or loads requiring over width or over length permits.	Each	\$255.47	1	\$255.47