



## Waste Utilization (Code 633) Manure Stockpiling Job Sheet

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**Background and Description** – Stockpiling of manure can be a relatively environmentally safe method of temporarily storing manure. This practice can be utilized when field and/or soil conditions are not suitable for spreading, such as frozen or snow covered ground. This practice is not a substitute for adequate manure storage. It is intended for short term storage (8 months or less) of solid manure in the field in which it will be applied. Solid manure is defined as having a minimum of 15% solid content (requires bedding) or able to hold a 3:1 ratio or steeper when stacked.



**Purposes** (check all that apply)

- Better utilize manure nutrients
- Reduce the risk soil compaction
- Reduce the risk of nutrients or contaminants reaching the waters of the state

**Locating a manure stockpile:**

Locating an adequate site for a manure stockpile is very important and must be carefully considered. When rain or snow comes into contact with the manure, the resultant leachate can carry contaminants and nutrients off-site into waters of the state or into ground water. This can have detrimental effects to the environment and/or to human health.

**Requirements for a manure stockpile:** (Check to verify that all conditions have been met)

- 1) Must be solid manure with bedding (minimum of 15% solids or able to hold a 3:1 ratio or steeper when stacked).
- 2) Planned storage cannot be for more than an 8 month period of time.
- 3) Cannot be located over soils that are shallow to bedrock or lay over fractured bedrock. A manure stockpile must be a minimum of 300 feet from any sinkholes and located on soils with a minimum depth to bedrock of 3 feet.
- 4) Must be located on soils with a texture no coarser than a sandy loam as identified by a current NRCS Soil Survey.
- 5) Must be located a minimum of 300 feet from any springs or wells.
- 6) Must be located a minimum of 1500 feet from any public surface drinking water intakes.
- 7) Must be located a minimum of 500 feet from neighboring residences.
- 8) Must be located a minimum of 300 feet from areas of concentrated flow such as waterways or surface drains.
- 9) Must be located a minimum of 300 feet from any private ponds or waters of the state.
- 10) Cannot be located on slopes greater than 4%.
- 11) Cannot be located in a flood plain or floodway or on hydric or frequently flooded soils.
- 12) Must be a minimum of 300 feet from a tile inlet or broken tile.

**Other considerations:**

1. **Field of application:** Locate manure stockpiles in or near the field in which the manure is to be applied. The volume of manure should approximately equal the amount that will be applied to the field at agronomic rates.
2. **Utilities:** Locate stockpiles a minimum of 75 feet away from overhead or buried utilities whenever possible.
3. **Filter area:** If it is known that manure will be stockpiled more than 4 months, consider planting a 100 foot temporary buffer around the stockpile such as bin oats to intercept leachate and recycle nutrients.
4. **After manure application:** Once a manure stockpile has been removed for field application, consider planting a vegetative cover on the site to recycle the nutrients if site conditions allow (non cropland areas). Do not use the same site again for at least one full growing season (cropland areas).

**Operations and Maintenance:**

Stockpiles should be inspected after significant rain events (½ inch or more) for leachate ponding or runoff. Take corrective action if needed. If manure is stockpiled for more than two weeks during the summer, monitor flies, beetles and other pests. Treat as necessary.

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**Manure Field Stockpiling Job Sheet**

Map or Aerial Photo of Stockpile Location

**Records:**

Date manure was stockpiled:	
Volume of manure stockpiled:	
N & P content of the manure:	
Dates stockpile was inspected (for pests and after rainfall)	
Date stockpile was land applied:	
Number of Acres to which manure was applied:	

This Job Sheet was completed by: \_\_\_\_\_

Records are maintained by: \_\_\_\_\_