

Mortality Composting Field Data Collection

Landowner/Operator _____ Designer _____
 Location _____ Date _____
 Checker _____ Date _____

The criterion below is based on:

- Michigan Department of Agriculture, Bodies of Dead Animals Act (BODA), Public Act 239 of 1982, amended 7/7/2005.
- Michigan Department of Agriculture, Bodies of Dead Animal Rules, filed 9/26/2007.
- Michigan Animal Tissue Compost Operational Standard (MATCOS).

ALL COMPOSTING SITES MUST MEET THE FOLLOWING CRITERIA:

Please place a check mark on the bullet for each item resolved and enter the actual distance.

- | | <u>Actual Distance</u> |
|--|------------------------|
| <input type="checkbox"/> A minimum setback of <u>200 feet from waters</u> of the state. _____ ft. | |
| • Including lakes, streams, wetlands, sinkholes, seasonal seeps, or other landscape features that indicate the area is hydrologically sensitive. | |
| <input type="checkbox"/> A minimum of <u>2 feet above the seasonal high water table</u> . _____ ft. | |
| • As defined by the NRCS Waste Storage Facility (313) Practice Standard | |
| <input type="checkbox"/> A minimum of <u>200 feet from any well</u> . _____ ft. | |
| <input type="checkbox"/> A minimum of <u>200 feet from the nearest non-farm residence</u> . _____ ft. | |
| <input type="checkbox"/> The composting site shall be selected and/or graded to direct surface runoff away from the site and prevent leachate from contacting surface waters. | |
| <input type="checkbox"/> The composting site shall be located outside of floodplains. Otherwise, the site shall be protected from inundation or damage from a 25-year flood event. | |

Information Data required to run the *Spartan Animal Tissue Composting System Planner* (<https://www.msu.edu/~rozeboom/catrn.html>):

1. Obtain the quantities shown in Table 1 in consultation with the landowner:

| Table 1. Production information for input into <i>Spartan Animal Tissue Composting Planner</i> | | | | |
|--|------------------|--|--|--|
| Input | Production phase | | | |
| Animal Type | | | | |
| Capacity^a – total number of animals in each phase of production. Ex; 3 heifer buildings houses 100 head each would be a capacity of 300. | | | | |
| Days in production phase, day – number of days that animals occupy facility associated with this phase of production. This is the total number of days the animals are kept from arrival to the final departure. Most adult animals are kept for the full year or 365 days. For cows, this includes | | | | |

| | | | | |
|---|--|--|--|--|
| lactation , and dry cows. Growing animals may only be kept for part for part of the year | | | | |
| Percent mortality^b - Varies based on animal type – see link below for industry avg | | | | |
| Average weight, lb^c | | | | |
| Total Farm Mortality (lbs) – Capacity x Avg wt x Percent mortality | | | | |
| ^a For estimating the weight of preweaning mortality of swine the number of farrowing stalls and the average total number of piglets born per litter are necessary inputs. ^b Based on farm records or industry averages presented in Michigan Animal Tissue Compost Operational Standard, Table 1. https://www.msu.edu/~rozeboom/catrn.html ^c Average animal weight during a given production phase. | | | | |

2. Determine the total farm mortality _____ lbs

- If less than 20,000 lbs of total farm mortality a temporary site may be used in an active crop field. Refer to the Animal Mortality Design Guidance document for criteria.
- If greater than 20,000 lbs of total farm mortality a permanent site must be constructed in accordance with an improved surface as identified by NRCS (313) Waste Storage Facility practice standard, leachate and runoff control measures are required.

SELECT THE FOLLOWING OPTIONS THAT APPLY

(Circle one option for each bold letter below):

| Option | Circle one | | | |
|-----------------------------|------------|----------------------------|--|----------|
| A. Composting System | Bins | Individual piles | Overlapping piles | Windrows |
| B. Wall Type | Timber | Concrete modular blocks | Reinforced Concrete | - |
| C. Liner type | None | Concrete pad | Synthetic with harden surface over top | - |
| D. Runoff Control | Roof | Wastewater treatment strip | Waste storage facility | - |

Notes:

Type of bulking material to be used in the compost mix: _____

Bucket loader size to be used:

Width of bucket _____

Volume of bucket _____ cubic yards

Existing concrete surfaces, or structure, may be used, if it meets the following criteria with visual inspection:

- Walls appear to be vertical, with no significant wall movement (bowing)
- No significant cracking is defined as;
 - Any crack 0.20 (1/5) inches wide, or greater
 - The concrete surface has displacement out of plane by more than 0.125 (1/8) inches
 - Hairline cracks are not considered significant
- Inactive cracks are properly sealed
- Document that there is an appropriate floor design for the anticipated loads
- Determine that any leakage from the walls, and the wall to floor joints, is collected and controlled properly.