

**DRAFT 6/2/2011**

# **LAND APPLICATION OF MANURE**

**A supplement to Manure Management for Environmental Protection**

## **MANURE MANAGEMENT PLAN STANDARD FORMAT**

### **WORKBOOK**

**To Be Completed, Implemented and Retained  
By All Farmers that Land Apply Manure**



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION

**MANURE MANAGEMENT PLAN  
CHECKLIST**

	<b>Manure Management Manual Page No.</b>	<b>Completed or Reviewed</b>	<b>Not Needed</b>
<b>Section 1 - General Information (Required)</b>	3		
Contact Information Page	3		
Operational Information Page	4		
<b>Section 2 - Manure Application Rates and Timing (Required)</b>	6		
Manure Management In Environmentally Sensitive Areas	6		
Winter Application	8		
Manure Application Rate and Timing	10		
Manure Management Plan Summary	11		
<b>Section 3 – Farm Map</b>	13		
<b>Section 4 - Recordkeeping</b>	15		
<b>Section 5 - Managing Manure Storage in Structures and Stockpiling Areas (If the farm has manure storage)</b>	19		
Manure Storage Facilities	20		
Manure Stockpiling and Stacking	21		
<b>Section 6 - Managing Manure in Pastures</b> Only use if the farm has pastures	21		
<b>Section 7 - Animal Concentration Areas (If the farm has ACAs) SEE NOTE BELOW</b>	22		
ACA Worksheet	23		
Please note that all farms with crops or ACAs must also have an Agricultural Erosion and Sediment Control Plan meeting the requirements of 25 Pa. Code Chapter 102. Additional information can be obtained from the county conservation district.			

# MANURE MANAGEMENT PLAN

Farm name \_\_\_\_\_

Name of Owner/Operator \_\_\_\_\_

Operation Street address \_\_\_\_\_

City, State and Zip Code \_\_\_\_\_

Phone number (home/barn) \_\_\_\_\_

(cell) \_\_\_\_\_

Email address \_\_\_\_\_

## **Name of person preparing the Manure Management Plan (if other than owner/operator)**

Preparer name \_\_\_\_\_

Preparer organization \_\_\_\_\_

Street address \_\_\_\_\_

City, State and Zip Code \_\_\_\_\_

Phone number (business) \_\_\_\_\_

(cell) \_\_\_\_\_

Email address \_\_\_\_\_

**Date of Development** \_\_\_\_\_

Note that the manure management plan must be evaluated by the owner/operator annually and updated when necessary to keep the plan consistent with farm management practices.

## OPERATION INFORMATION PAGE

a. **Acres of the operation:** Owned \_\_\_\_\_ Rented \_\_\_\_\_

b. **Animals on the operation:**

Animal type	Animal # (normal production day)	Days on farm per year

c. **Crop Rotation used on the Operation (use additional pages if necessary):** \_\_\_\_\_

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d. **Environmentally Sensitive Areas:**

- Private or public drinking water wells Yes  No
- Streams, lakes or ponds Yes  No
- Sinkholes Yes  No
- Areas of concentrated flow including swales, ditches, gullies, etc. Yes  No
- For winter application, above ground inlet to agricultural drainage system Yes  No

All farms containing environmentally sensitive areas must complete the Environmentally Sensitive Areas worksheet on pages 5 and develop a map of environmentally sensitive areas.

e. **Winter Application:** Is manure applied during the winter? Yes  No   
If yes, you must complete the Winter Application Worksheet on pages 6.

f. **Manure Storage Facilities.** Is manure stored in a manure storage facility (concrete tank, metal tank, under building structure, earthen, clay, or synthetic lined pond or lagoon, etc.)? Yes  No   
If yes, you must complete Section 5 - Managing Manure Storage in Structures on pages 9.

g. **Solid Manure Stockpiling or Stacking**  
Is manure stockpiled or stacked in outdoor areas? Yes  No   
If yes, you must meet the requirements in Section 5 - Managing Manure Stockpiling/Stacking Areas on page 9.

h. **Pasture Areas:** Yes  If yes list acres: Owned \_\_\_\_\_ Rented \_\_\_\_\_ No   
All farms containing pastures must meet the requirements in Section 6 – Managing Manure in Pastures on page 10.

i. **Animal Concentration Areas (ACAs):** Yes  If yes: Owned  Rented  No   
All farms containing ACAs must meet the requirements in Section 7 – Managing Manure in ACAs on pages 10.





**Insert Map**

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**MANURE STORAGE FACILITIES (FOR EACH FACILITY PROVIDE)**  
**Use Additional Sheets as Necessary**

Type of storage (concrete or metal tank, under building structure, earthen or clay or synthetically lined pond or lagoon, exposed concrete pad, roofed solid manure stacking pad, etc.) and year of construction:

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Size (length, width and depth (excluding required freeboard)) of existing manure storage, indicate if exposed to precipitation. Calculate storage volume for facilities storing liquid or semi-solid manure:

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Indicate if any additional materials are added to the manure including bedding, agricultural process wastewater (water system overflow, wash water, milkhouse waste, egg wash water, etc.).

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Manure storage related practices that need to be installed on the farm to address identified problems (such as inadequate storage volume, leaking facilities, inadequate maintenance, runoff from a stack that directly reaches a water body, etc):

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**NOTE** – If you generate or import agricultural process wastewater at the farm, this wastewater must be included in your manure management plan. On many farms, this wastewater is mixed with manure within the manure storage facility. In that case, there is no separate planning requirement for the agricultural process wastewater. If the agricultural process wastewater is not mixed with manure in the manure storage facility, you should contact the county conservation district or the PADEP to discuss the process for managing that wastewater.

## PASTURE MANAGEMENT

All pastures on the farm must be listed in the Manure Management Plan and identified on the farm map.

Please identify your pasture management approach below:

I have a grazing plan meeting the requirements of the Natural Resources Conservation Service Pennsylvania Technical Guide Practice Standard 528 for Prescribed Grazing

I am managing my pastures by maintaining dense vegetation in the pasture throughout the growing season. Dense vegetation means that the pasture is managed to minimize bare spots and to maintain an average vegetation height across the pasture to at least 3 inches high.

Grazed fields that do not have an NRCS grazing plan which are overgrazed (as defined as not meeting the management requirements described above in check box "2") need either to be managed to restore dense vegetation or these areas will be defined as Animal Concentration Areas ("ACAs") and will need to meet the requirements of Section 5 Animal Concentration Areas of this manual.

## ANIMAL CONCENTRATION AREAS

Some farms may need technical assistance in order to develop and implement BMPs on ACAs. The farmer has until March 2013 to develop the BMPs and no more than 3 years from the date of developing those BMPs, to implement the BMPs. The DEP believes that most farms will be able to begin implementation on a much shorter time frame but recognizes that time may be needed for more costly BMPs.

Farmers with ACAs requiring corrective actions need to immediately contact the local conservation district, Natural Resource Conservation Service office (NRCS), or a private consultant and must document that contact and the time frame for developing and implementing BMPs.

List date contact was made to the assisting agency/party to help in these efforts:

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List who was contacted to assist in these efforts: \_\_\_\_\_

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## **RECORDKEEPING FORMS**



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