

# ACA Evaluation



# Correcting ACA Problems

- Evaluate, identify problems and determine solutions
  - Strongly suggest working with NRCS, conservation district, or private specialists
- Action to address ACA “problems” must be taken immediately
  - Immediately implement management changes that do not require professional design
    - Moving feeders and waterers, installing fence, removing accumulated manure, establishing vegetative buffers, etc.
  - Some changes require professional design and construction
    - BMP plans being developed by design professionals must be completed by October 29, 2013
    - Those plans must be fully implemented within 3 years of the development date

# COMPLETE ANIMAL CONCENTRATION AREAS WORKSHEET

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

## 10



# Animal Concentration Areas Worksheet (p. 9 & 10)

## ANIMAL CONCENTRATION AREAS WORKSHEET

### Part 1

(See Instructions on Page 22)

Some farms may need technical assistance in order to develop and implement BMPs on ACAs. The farmer has until October 29, 2013, to develop the BMPs and no more than 3 years from the date of developing those BMPs, to implement the BMPs. DEP believes that most farms will be able to begin implementation on a much shorter time frame but recognizes that more time may be needed for costly BMPs.

Farmers with ACAs requiring corrective actions need to immediately contact the local conservation district, 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: \_\_\_\_\_

March 1, 2011

List who was contacted to assist in these efforts: John Brown, York County Conservation District

## ANIMAL CONCENTRATION AREA WORKSHEET

### Part 2

Use Additional Sheets as Necessary

(See Instructions on Page 22)

Location of ACA (refer to Farm Map)	List Yes if BMP has been implemented and if BMP is planned, list planned date for installation				
	Divert clean water around ACA	Direct polluted water to storage or vegetated treatment area	Limit access to streams through stabilized crossings and watering areas	Limit size of denuded areas	Locate area where animals congregate (feed areas, shade, etc.) away from streams
<i>North side of heifer barn</i>	<i>Summer 2012</i>	<i>Summer 2012</i>	<i>Summer 2012</i>	<i>Yes</i>	<i>2012</i>

**MMP Instructions  
Example (p.23)**

## Manure Management Plan Exercise

# COMPLETE MANURE MANAGEMENT PLAN CHECKLIST

MANURE MANAGEMENT PLAN CHECKLIST			
	Manure Management Plan Page No.	Completed or Reviewed	Not Needed
<b>REQUIRED SECTIONS</b>			
Contact Information Page	2		
Operation Information Page	3		
Environmentally Sensitive Areas Worksheet	4		
Winter Application Worksheet	5		
Manure Management Plan Summary	6		
Farm Map	7		
Recordkeeping	11-15		
<b>Managing Manure Storage in Structures and Stockpiling Areas (If the farm has manure storage)</b>	19		
Manure Storage Facilities Worksheet	8		
Manure Stockpiling and Stacking	20 of Instructions		
<b>Managing Manure in Pastures (If the farm has pastures)</b>			
Pasture Management Worksheet	9		
<b>Animal Concentration Areas (If the farm has ACAs) SEE NOTE BELOW</b>			
ACA Worksheet	9-10		
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 Checklist (p.1)

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<b>Animal Concentration Areas (If the farm has ACAs) SEE NOTE BELOW</b>			
ACA Worksheet	9-10		
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.			

# Recordkeeping

- Two types of records must be maintained
  - Worksheets completed as part of the MMP development
  - Records that demonstrate that the MMP has been implemented
    - These records must be retained for 3 years
- All records must be made available to DEP or the county conservation district upon request
- Two types of MMP implementation records
  - Manure application records for each crop year
    - Manure Application Rate Record
    - Crop Yield Record
    - Manure Transfer Record
  - Manure Storage Facility Record
    - Monthly Inspection Form (Liquid & Semi-Solid Storages)
- Farmers can use their own recordkeeping system
  - As long as it contains the required information
  - Forms are provided in the Manure Management Manual

# Manure Application Rate Record (p.12)

**MANURE APPLICATION RATE RECORD**  
**JANUARY 1, 2011 THROUGH DECEMBER 31, 2011**  
**Use Additional Sheets as Necessary**  
**(See Instructions on Page 15)**

<b>Date</b>	<b>Field Identification</b>	<b>Acres</b>	<b>Manure Group</b>	<b>Crop Group</b>	<b>Application Rate</b>	<b>Notes</b>
4/22	1,3,5,7	24	Liquid dairy	Corn Silage	9,000 gal	
4/25	2,4,6,8	22	Liquid dairy	Grass Hay	7,000 gal	
10/5	9,11,13	12	Solid dairy	Corn Silage	25 tons	
10/15	10,12,14,16	29	Liquid dairy	Grass Hay	7,000 gal	
10/15	15,17,19	17	Liquid dairy	Corn Silage	9,000 gal	
					MMP Instructions Example (p.15)	



# Crop Yield Record (p.13)

## CROP YIELD RECORD

JANUARY 1, 2011 THROUGH DECEMBER 31, 2011

Use Additional Sheets as Necessary

(See Instructions on Page 16)

Field Identification	Crop Group	Date Harvested	Yield Goal	Actual Yield Harvested	Notes
1,3,5,7,9,11, 13,15,17,19, 21,23,25	Corn Silage	September 2010	21 tons	22 tons	
2,4,6,8,10,12, 14,16,18,20, 22,24	Grass Hay	May and August 2010	5 tons	4 tons	

MMP Instructions Example (p.16)

# Manure Transfer Record (p.14)

**MANURE TRANSFER RECORD**  
**JANUARY 1, 2011 THROUGH DECEMBER 31, 2011**  
Use Additional Sheets as Necessary  
(See Instructions on Page 16)

<b>Date</b>	<b>Name of Importer/Broker</b>	<b>Address and Phone Number Importer/Broker</b>	<b>Manure Group</b>	<b>Amount of Manure Transferred</b>	<b>Crop Group and Application Rate</b>
<i>4/20</i>	<i>Bill Jones</i>	<i>55 Manure Road Manure Town 717-555-4567</i>	<i>Solid Beef</i>	<i>20 tons</i>	<i>Unknown</i>
<i>10/5</i>	<i>Bill Jones</i>	<i>55 Manure Road Manure Town 717-555-4567</i>	<i>Solid Beef</i>	<i>15 tons</i>	<i>Unknown</i>

**MMP Instructions Example (p.16)**

# Manure Storage Facility Record (.15)

## MANURE STORAGE FACILITY RECORD MONTHLY INSPECTION FORM

Use Additional Sheets as Necessary  
(See Instructions on Page 17)

Storage Name	Inspection Date	Manure Depth (liquid)	Depth from Surface of Manure to Freeboard (liquid)	Leak Detection System Inspections. Are there any leaks, overflows, or seepages? Describe.	Structural Integrity. Are there cracks, erosion, slope failures, liner deterioration, rodent holes, large vegetation, excessive or lush vegetation, fencing issues, loading area issues? Describe.
Liquid dairy	1/1/2010	3.5 feet	7.5 feet	None	No problems observed
Same	2/1/2010	5 feet	6 feet	None	Same
Same	3/1/2010	6.5 feet	4.5 feet	None	Same
Same	4/1/2010	8 feet	3 feet	None	Same
Same	5/1/2010	1 foot	10 feet	None	Same
Same	6/1/2010	2.5 feet	8.5 feet	None	Same

MMP Instructions Example (p.17)

# Recordkeeping

- Recordkeeping should begin immediately
  - Can begin keeping records before the MMP is completed
- Determine which records are required for your operation
  - Manure Application Rates
  - Crop Yields
  - Manure Transfer
  - Manure Storage Facilities
- Get started!

## Penn State **Extension**

<http://Extension.psu.edu>

## Penn State **Extension** Crop Management Team

<http://Extension.psu.edu/CMEG>

## Penn State **Extension** Nutrient Management Program

<http://panutrientmgmt.cas.psu.edu>

## Berks Conservation District

[berkscd.com](http://berkscd.com)

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