

# NYS Existing BMP Tracking and Reporting System

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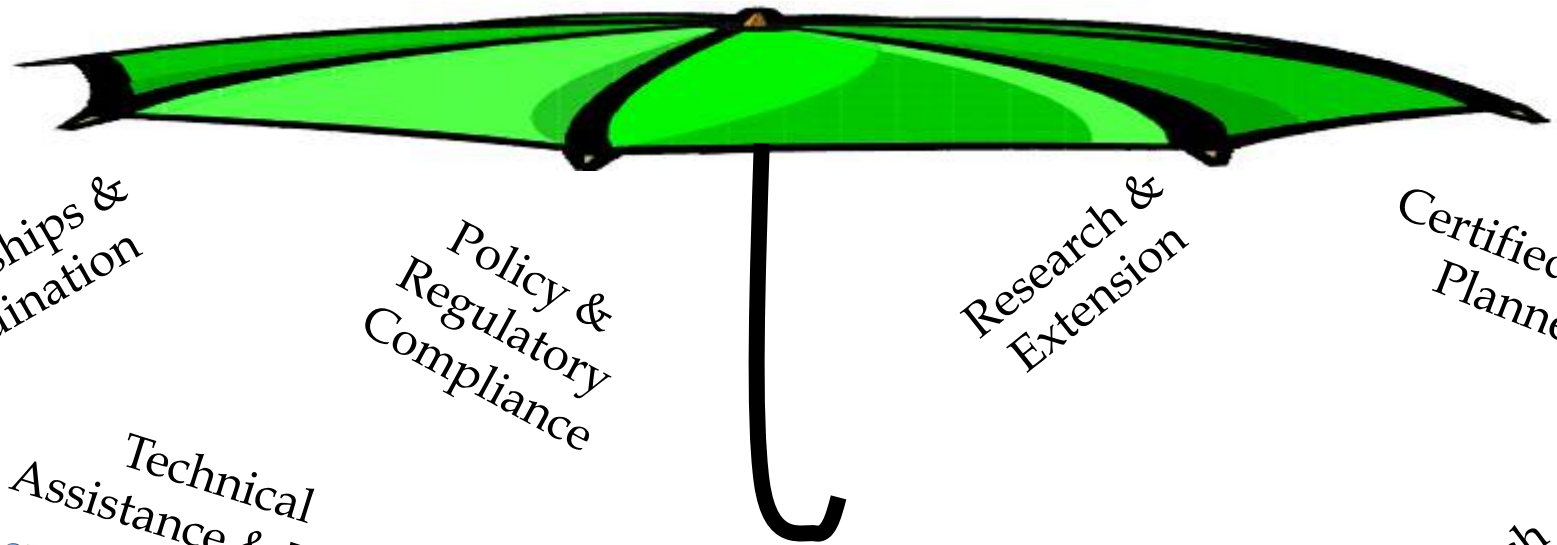
BMP Verification Committee

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# *Agricultural Environmental Management (AEM)*

AEM is the “umbrella program” that provides a consistent format to efficiently identify and address environmental concerns through a comprehensive on-farm assessment, planning, implementation, and evaluation cycle.



Partnerships &  
Coordination

Policy &  
Regulatory  
Compliance

Research &  
Extension

Certified AEM  
Planners

Technical  
Assistance & Tools

Programs

Locally-led Strategies &  
Priorities

Training

Outreach



AEM is administered and implemented by trained professionals at the local level through county SWCDs and their partners.

AEM's on-farm framework is voluntary and designed to be highly interactive and utilizes resource professionals and peers working with the farmer throughout the process.

AEM utilizes a five-tiered process that includes inventory, assessment, plan development, implementation and evaluation.



# Agricultural Environmental Management

## AEM Framework:

- Document stewardship
- Identify concerns & opportunities
- Develop conservation plans
- Implement conservation practices
- Evaluate plan, practices & program

## 5 Tiers

- *Tier 1*- Inventory Questionnaire
- *Tier 2*- Assessment Worksheets
- *Tier 3* - Planning
- *Tier 4*- Implementation
- *Tier 5*- Evaluation



The USC collects data on 1,000 Dairies over 18 Counties

95% of farms have been visited at least once for an initial AEM assessment

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Overall we see the AEM program fitting well within the general Draft Chesapeake Bay Program Partnership's BMP Verification Principles and the more specific Draft Ag Verification Protocol Concepts.

Within the AEM framework, other methods of data collection may be used such as regional AEM data collection meetings, phone surveys, farmer self-certifications, and using aerial imagery/dashboard surveying of cropland.

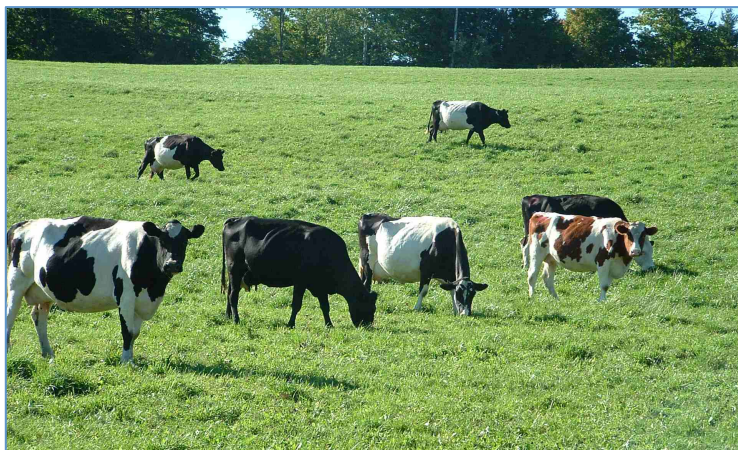
The AEM program and its associated federal programs, the NYS Ag Nonpoint Source Abatement and Control Program and General Permitting for Concentrated Animal Feeding Operations (CAFO) provide the framework to use these protocols effectively with farms active in the AEM process and/or permitted farms.



It is the goal of the USC to collect all on-farm BMPs – both cost shared and non-cost shared BMPs. AEM, in general, provides the framework to capture this.

What is needed for the future is the development of a finer level of detail within our current system to better capture non-cost shared, non-structural, and annual practices with the funding to match a data collecting/reporting program at the increased level.

The AEM framework will currently capture non-cost shared, voluntarily implemented BMP farms, but the frequency of contact is not assured.



# *Non-Ag BMP Data (brief overview)*

The NYS Department of Environmental Conservation collects data for WWTP and Stormwater BMPs

DEC is working with Tetra Tech to develop a way to collect stormwater data

DEC collects MS4 data

This data is given to USC to report via the NEIEN

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# *USC Data Collection Under the (AEM) Framework*

The USC has an Ag Team with a Team Leader, Coordinator, and a variety of specialists including a GIS specialist, lead data collectors, and technicians.

The USC is the sole collector of Ag BMP data. The USC owns the NEIEN Node in NYS.

Traditionally the USC has gone District to District collecting historic and current data via SWCDs and NRCS offices and storing on excel spreadsheets in individual district offices and coordinated by GIS specialist/Ag Coordinator.


The USC still relies on District's technical experts to do local BMP prioritizing based on AEM process.

The USC will be rolling out a new online tool this fall to report coordinated BMP data to the CBP via NEIEN.







We are putting the finishing touches on first phase of an online AEM Data Management Application for Districts to report data from their office and store it on a shared server.



**AGRICULTURAL ENVIRONMENTAL MANAGEMENT**All Counties


Farm

 Search Existing Farm Records

 Add New Farm Record


**Select by Attributes**  
Farm Name   
Owner Name  First Name  Last Name   
Operator Name  First Name  Last Name   
AEM ID   
**Address**  
 Street  
 Municipality  Zip  

 Clear Selection  Search Database

**Select on Map**  
  
☐ Show Imagery

**Select a Farm and click continue**

Zoom	Name	Address	Municipality	Zip	AEMID	Owner First	Owner Last	Operator First	Operator Last	Is Ina
<div></div>										

Continue 

Start Page After Logging In



Farm



Search Existing Farm Records



Add New Farm Record

## Step 1: Select a Location

Enter Address to find

Find

Show Imagery

Location of farm not selected.

## Step 2: Enter the Required Fields

### Required Fields

Farm Name

Owner Name

Operator Name

AEM ID

### Address

Street

Municipality

State

Zip



Reset



Save and Continue

Sample Page to Enter a New Farm Record (not real data in this slide)  
This tool has mapping capabilities  
Can track individual farms and their individual BMPs



## AGRICULTURAL ENVIRONMENTAL MANAGEMENT

All Counties

### Farm Details

Name: I

Owner:

#### Farm Details

#### Tier 1

#### BMP

AEM Identification Number XXX-XXXX

Farm Name

Evaluator Name Aaron Ristow

Date 3/9/12

15

Evaluating Agency TCSWCD

Watershed Identification(WBD12)

☒ Is Inactive

Coordinates :

#### Owner Information

Name Farmer

Fred

Phone

Address Address

Cell

City

State

Zip Code

Addn. Phone

Email

Fax



HOME



Delete



Save

Sample Page to Enter Farm Details

**AGRICULTURAL ENVIRONMENTAL MANAGEMENT**

**All Counties**

Name: Meadow  
Owner:

**Farm Details**

**Tier 1**

**BMP**

**Farmstead BMPS**

**Animal Waste Management Systems**  # Animals ☐ CAFO

**Manure Storage** ☐ Covered Date

Comment

**Manure Transfer** Date

Comment

**Silage Leachate** Date

Comment

**Milk House Waste**

Animal #'s

BMP Type

Date BMP installed  
or implemented

Sample Page to Enter Farm BMPs

We have made every attempt to make AEM online application tool as simple for the user as possible to save their time.

We will roll out trainings this fall on how to use the tool and how to identify a BMP to enter into the tool.

The tool will format data to be ready to submit via NEIEN.

The data already exists but historically the data was stored in individual offices and has required a county by county visit by GIS Specialist and/or Ag Coordinator.

This new tool will facilitate data collecting and reporting to make it centralized.

If funding allows we will develop a Phase II to integrate AEM Tier II assessment tools

In phase II we would like to add the ability to more easily generate reports to assist with grant tracking and reporting.



# Questions?

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