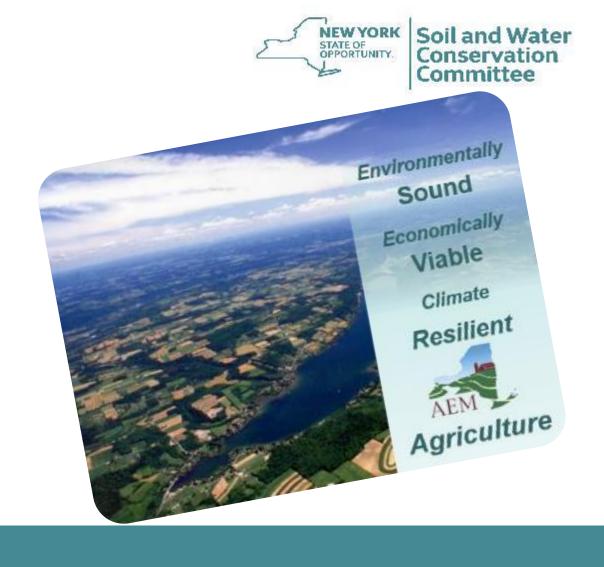
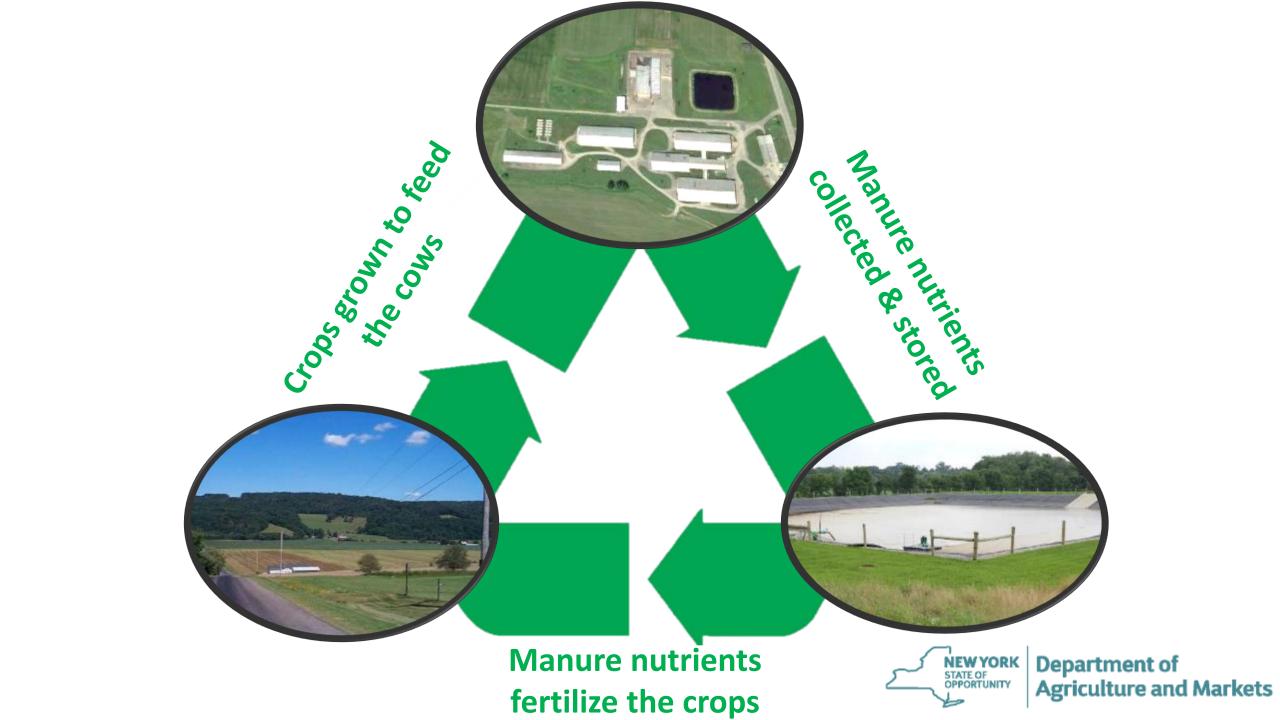


Agricultural Environmental Management

Cayuga Lake Watershed





Agricultural Environmental Management (AEM)

locally-led by Soil and Water Conservation Districts

www.agriculture.ny.gov/soilwater/aem

Protect and enhance the environment and the viability of agriculture in New York State.



AEM 5-Tier Approach

	AEM Tier	Purpose	NRCS 9 Step Process	
	er 1 – Inventory uestionnaire)	Basic farm info and interests	 ID Issues & Opps Determine Objectives Inventory Resources Analyze Resource Data Formulate Alternatives Evaluate Alternatives Make Decisions 	
	er 2 – Assessment Fier 2 Worksheets")	Identify existing stewardship, resource concerns, and opportunities		
Tie	er 3 – Planning	Develop conservation plans		
Tie	er 4 – Implementation	Implement conservation practices based on the plans	8. Implementation9. Evaluation	
Tie	er 5 – Evaluation	Evaluate plans, practices, and programs		



AEM Tier 2 Assessment Worksheets

<u>Core</u>

- Watershed Site Evaluation
- Agriculture & the Community
- Soil Management
- Manure & Fertilizer Mgmt
- Manure & Fertilizer Storage
- Waste Disposal
- Pesticide Use
- Pesticide Storage, Mix & Load
- Farmstead Water Supply
- Stream & Floodplain Mgmt.
- Petroleum & Oil Product Storage
- Forest Management
- Irrigation Water Management

Livestock

- Livestock Heavy Use Areas
- Silage Storage
- Process Wash Water
- Management of Feed Nutrients
- Water-Bourne Pathogens
- Pasture Management
- Livestock Odor Management

plus

GHG Mitigation Opportunities

<u>Equine</u>

<u>Greenhouse</u>

<u>Vineyard</u> (www.vinebalance.com)

Fruits & Vegetables

Long Island





AEM 5-Tier Approach

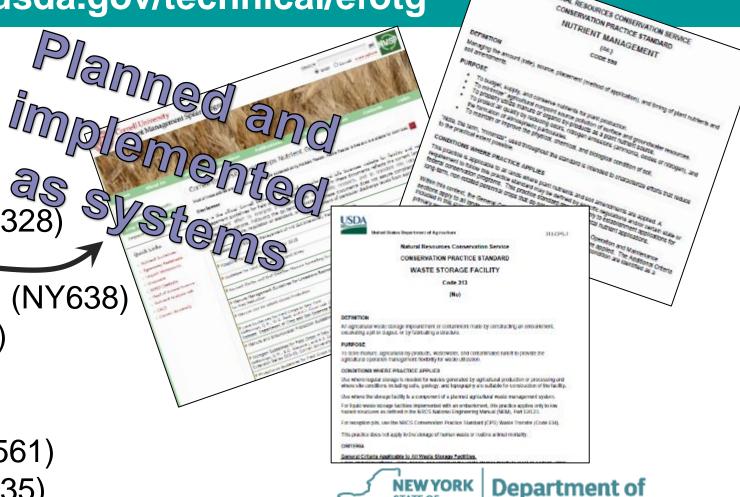
	AEM Tier	Purpose	NRCS 9 Step Process	
	er 1 – Inventory uestionnaire)	Basic farm info and interests	 ID Issues & Opps Determine Objectives Inventory Resources Analyze Resource Data Formulate Alternatives Evaluate Alternatives Make Decisions 	
	er 2 – Assessment Fier 2 Worksheets")	Identify existing stewardship, resource concerns, and opportunities		
Tie	er 3 – Planning	Develop conservation plans		
Tie	er 4 – Implementation	Implement conservation practices based on the plans	8. Implementation9. Evaluation	
Tie	er 5 – Evaluation	Evaluate plans, practices, and programs		



Many NRCS Standards are used in AEM Tier 3 Plans

www.nrcs.usda.gov/technical/efotg

- Nutrient Management (NY590)
- Cover Crop (NY340)
- Conservation Tillage Practices
- Buffer Practices
- Conservation Crop Rotation (NY328)
- Grassed Waterway (NY412)
- Water & Sediment Control Basin (NY638)
- Manure Storage Facility (NY313)
- Manure Transfer (NY634)
- Compost Facility (NY317)
- Heavy Use Area Protection (NY561)
- Vegetated Treatment Area (NY635)
- Prescribed Grazing (NY528) and more



Agriculture and Markets

Ag Best Management Practice Systems

BMP SYSTEM NAME	BMP SYSTEM NAME
Access Control System	Pathogen Management System
Agrichemical Handling and Storage System	Petroleum and Oil Products Storage System
Composting System – Animal	Prescribed Rotational Grazing System
Erosion Control System – Structural	Process Wash Water Management System
Feed Management System	Riparian Buffer System
Integrated Pest Management System	Silage Leachate Control and Treatment System
Irrigation Water Management System	Soil Conservation System – Cultural
Livestock Heavy Use Area Runoff Management System	Stream Corridor and Shoreline Management System
Manure and Agricultural Waste Treatment System	Waste Storage and Transfer System
Nutrient Management System – Cultural	



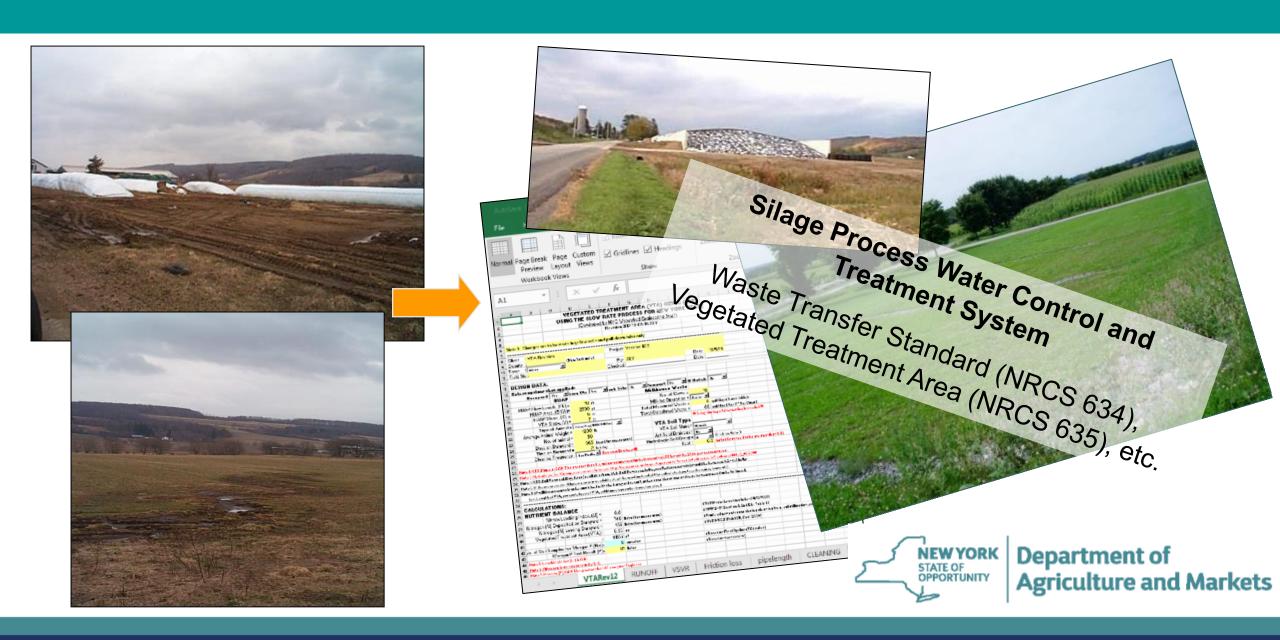
Funding Programs to Help Advance AEM on Farms

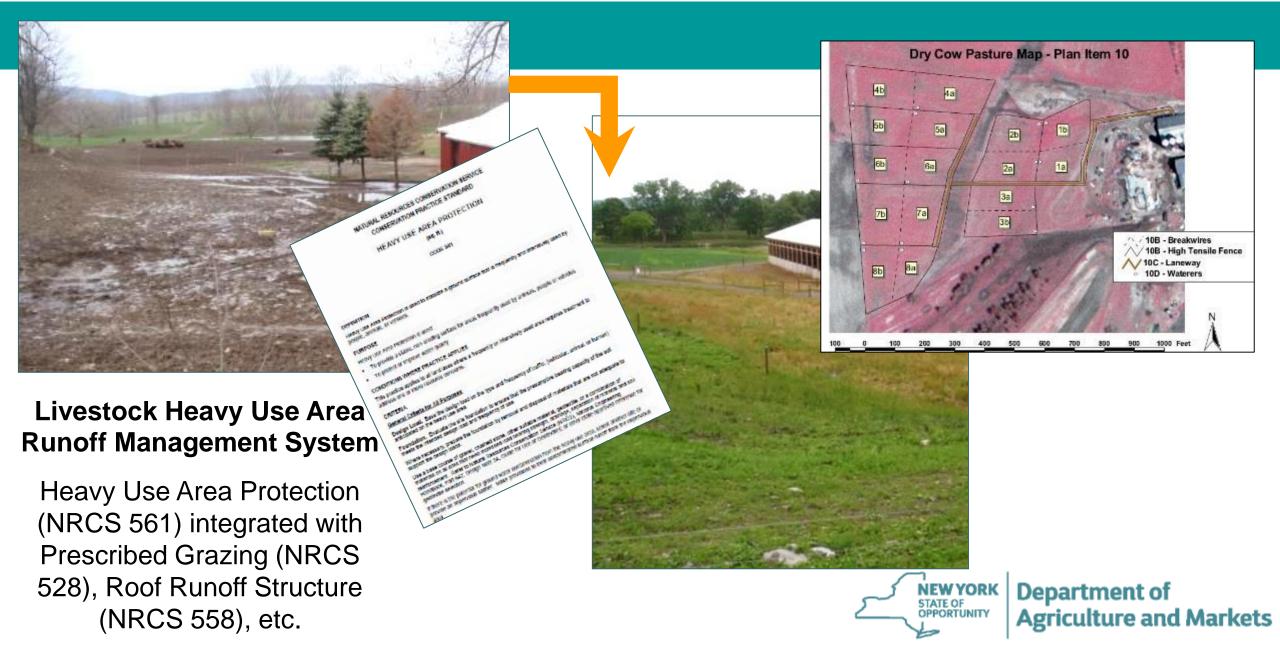
- Locally-led and sponsored by your Soil & Water Conservation District
 - AEM Base Program
 - Agricultural Non-Point Source Pollution Abatement and Control Program (AgNPS)
 - Climate Resilient Farming (CRF)
 - CAFO Waste Storage and Transfer System Program
 - Conservation Reserve Enhancement Program (CREP)
 - State Aid to Districts
- Other Programs from NYSDEC, USDA-NRCS, USDA-FSA, Cornell, USEPA, and others....
- + Significant, on-going investment by farmers.



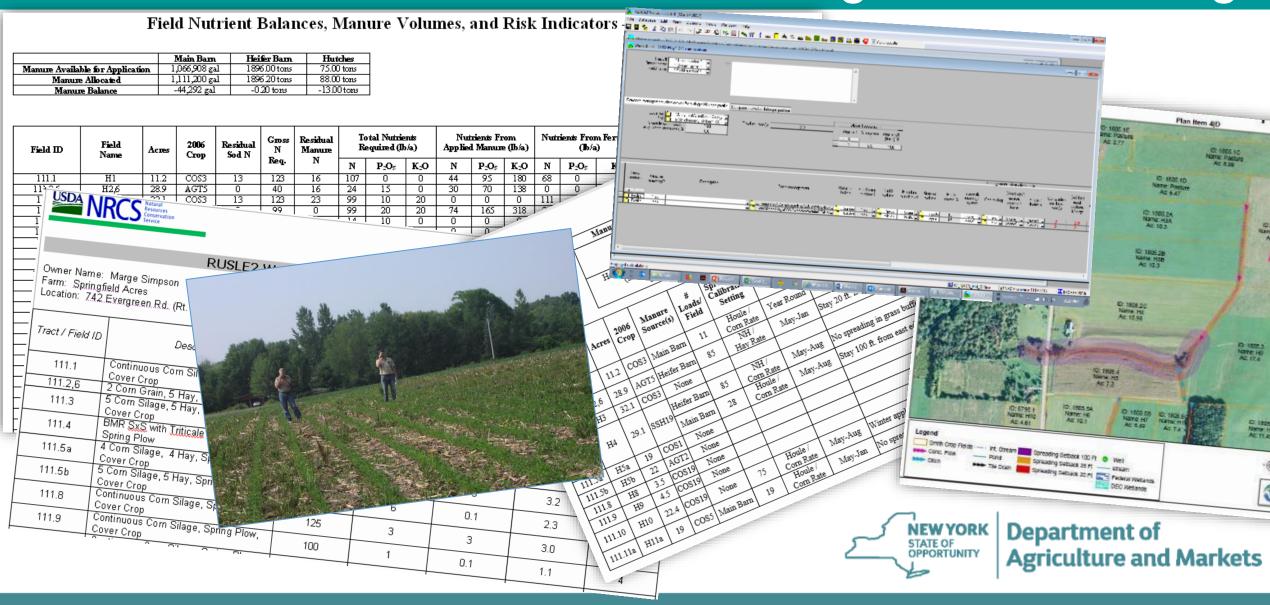
Farmstead Facilities Plan and Practices







Soil Conservation & Nutrient Management Planning



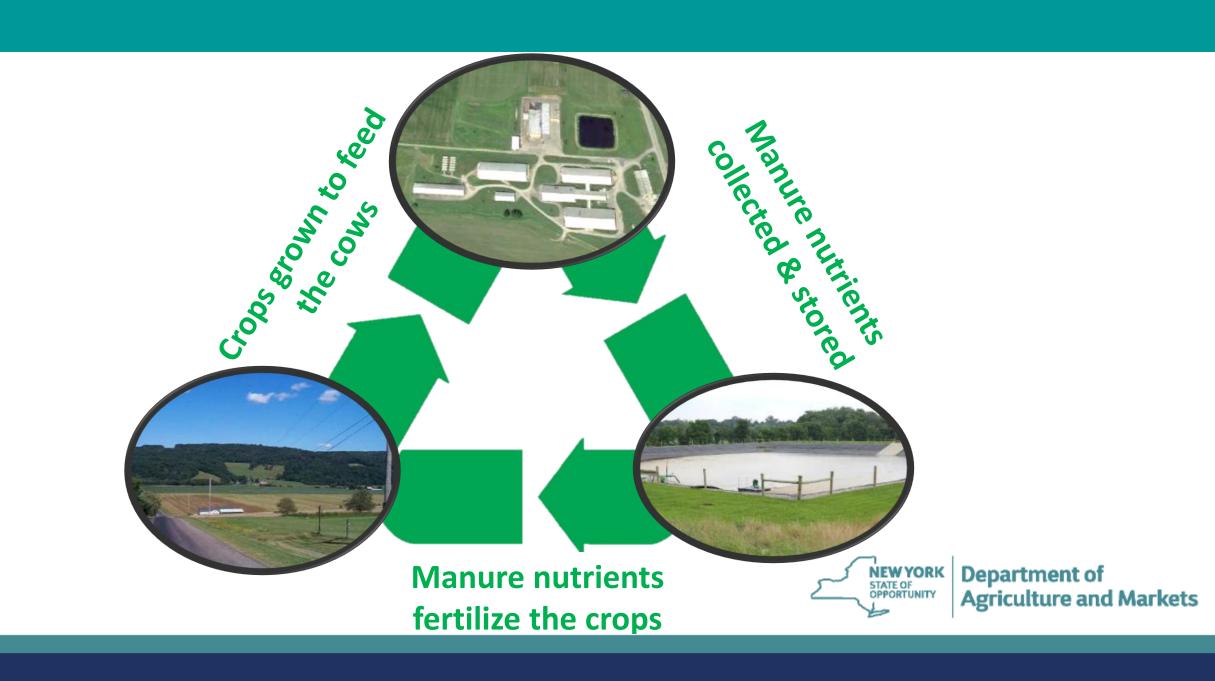
Multiple Barrier Approach



Nutrient Management Systems

Conservation Tillage Practices, Strip Cropping (NRCS 585), Grassed Waterway (NRCS 412), Filter Strip (NRCS 393s), Cover Crop (NRCS 340), Nutrient Management (NRCS 590), Buffer Practices, etc.





Agricultural Environmental Management

Protecting and enhancing the environment and the viability of agriculture in New York State.

Greg Albrecht
AEM Coordinator / NMP Specialist
Div. of Land and Water Resources
Dept. of Agriculture and Markets
NYS Soil and Water Conservation Committee

607.229.4654 Greg.Albrecht@agriculture.ny.gov

> www.agriculture.ny.gov www.nys-soilwater.org



