

Soil Health

Lewis County Soil and Water Conservation District



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District Manager



Review

KGAIGM

Ag Environmental
Management

Funding - AGNPS

Cover Crop Grants

Soil Health Project

Agricultural Environmental Management

AEM is a statewide, locally-led, and voluntary process that helps farmers make common sense decisions toward meeting their business objectives while protecting and conserving natural resources.

Laws of New York

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AGM - Agriculture and Markets

[Article 11-A](#) - AGRICULTURAL ENVIRONMENTAL MANAGEMENT

[150](#) - Definitions.

[151](#) - Agricultural environmental management program.

[151-A](#) - Planner certification.

[151-B](#) - Education and training.

[151-C](#) - Program participation.

[151-D](#) - Local regulation.

[151-E](#) - Coordination with the state pollutant discharge elimination system (SPDES).

[151-F](#) - Program funds.

[151-G](#) - Confidentiality.

[151-H](#) - Report.

[151-I](#) - Rules and regulations.

- **AEM Law enacted in 2000 with soil and water conservation focus.**
- **Expanded in 2008 to include air, energy, and GHG management.**



Agricultural Environmental Management

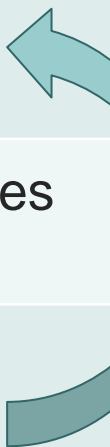
Helps address New York's commitment to State and National priorities:

- Clean Water Act
- Safe Drinking Water Act
- Coastal Zone Management Act
- Greenhouse gas mitigation, renewable energy, and climate change adaptation
- Adaptable to future priorities



AEM Framework – 5 Tier Approach

AEM Tier	Purpose
Tier 1 – Inventory (Questionnaire)	Basic farm info and interests
Tier 2 – Assessment (Worksheets)	Identify existing stewardship, resource concerns, and opportunities
Tier 3 – Planning	Develop conservation plans
Tier 4 – Implementation	Implement conservation practices based on the plans
Tier 5 – Evaluation	Evaluate plans, practices, and programs



Funding Programs to Advance AEM

- AEM Base Program
- Agricultural Non-Point Source Pollution Abatement and Control Program (AgNPS)
- Climate Resilient Farming (CRF)
- Conservation Reserve Enhancement Program (CREP)
- Ecosystem Based Management RFPs
- Cost-Share Programs from Key Partners
NRCS, NYS DEC, EPA, and others

Agricultural Non-Point Source Pollution Abatement and Control Program

- AgNPS program cost shares BMP Systems Soil & Water Conservation Districts are the local sponsors
 - Source: NYS Environmental Protection Fund (EPF)
 - Higher ranking for TMDLs, 303d, public drinking water, CAFO, and buffers
- \$160M appropriated over 23 Rounds since 1994
- Currently R23: \$14.1M awarded for \$43M in State requested funds for Ag BMP projects proposed by Districts
- \$14 million budgeted for 2017/18 (R24)

AGNPS Grant Funds

Cover Crop After Corn Silage Harvest

- 5 Farms - Round 20
- 3 Farms – Round 22



Benefits Of Cover Crops

- Reduced Sediment Runoff
- Improved Nutrient Management
- Protects Water Quality
- Reduced Soil Compaction
- Over All Improved Soil Health



Lewis County Cover Crop Survey

- Sent out to 140 Farms
- 36 responses
- Hurdles to Planting CC
 - 1. Limited Time for Cover Crop Planting Following Corn Silage Harvest**
 - 2. Lack of Availability of Planting Equipment**
 - 3. Cost**



Part C Funding - Interseeder



- Establishes crops in June/July
- Cover Crops have up to 4 months to grow
- Once corn silage is harvested, the cover crop remains



InterSeeder

- 188 Acres Cover Crop Planted 2017
- Demo Plots of Rye Grass, Red Clover and Daikon Radish
- 2018 - 370 acres



Daikon Radish, Annual Rye Grass & Red Clover Mixture Planted 7/6/17



Interseeded Cover Crops After CS Harvest



Interseeded Cover Crops After CS Harvest



Lewis County Soil & Water Conservation District Free Soil Health/Cover Crop Seminar



Soil Health Workshop

October 26, 2017

10am-3pm

Boondocks Restaurant

(3950 NY State Route 12 Lyons Falls, NY 13368)

Agenda

9:30am: Registration

10:00am-10:30am: Corey Dillon (Interseeder Technologies)
Benefits of Interseeding

10:30am-11:00am Mike Hunter (Cornell Cooperative
Extension) Interseeding Cover Crops-Herbicide and Weed
Management Guidelines

11:00am-11:30am: John Kemmeren (Chenango County Farmer)
Find out how 40 years of no-tilling resulted in healthy, high
organic-matter soils and have allowed him to cut fertilizer inputs
by 75% while increasing yields.

11:30am-12:10pm: Aaron Ristow (Cornell University Soil Health
Program Associate) Corn & Soybean Soil Health, Soil Water
Holding Capacity & New York State Soil Health Initiative

12:10pm-1:00pm: Lunch Buffet (Provided By: Cornell Soil Health
Team)

1:00pm-1:30pm: Shawn Bossard (SUNY Morrisville) No-Tilling
While Utilizing Cover Crops

1:30pm-3:00pm: Field Visits (Conway Dairy Farm LLC- Turin, NY)

CCA CREDITS WILL BE AVAILABLE

Please RSVP By **October 16th** to Lewis County SWCD
(315)376-6122 or Email:
alexislyndaker@lewiscounty.ny.gov

InterSeeder
TECHNOLOGIES



MORRISVILLE
STATE COLLEGE



Cornell University
Cooperative Extension

Soil Health Workshop

35 Attendees
Classroom & Infield
Component



Interseeder 10 Free Acre Project

- **Recommended V7 or earlier stage of corn**
- **Sunlight penetrate in the canopy for cover crop seeds to germinate and establish**
 - **Daikon Radish**
 - **Red Clover**
 - **Annual Ryegrass**
- **Seed mixture includes 3 lbs. of radish, 8 lbs. of clover and 12 lbs. of ryegrass**

Questions?



