

Agricultural Environmental Management (AEM) and **Agroforestry**

New York Nut Growers Association 2024 **Fall Meeting**

agriculture.ny.gov



NEW YORK

OPPORTUNITY.

STATE OF

Soil and Water

Kathy Hochul Governor

Richard A. Ball Commissioner

Dale Stein NYS SWCC Chair Greg Albrecht AEM Coordinator Principal Environmental Analyst

NYS is an Agricultural State

NYS Ag Statistics

Farms by Type (% of Total; 2017 Ag Census)



- Annual value of farm products: \$5.7 billion
- 33,400 farms statewide
 - Employing over 55,000 people
- Approx. 7 million acres (~20% of State)
- Nearly 850 farmers' markets in NYS
- NYS Ag ranks top 10 in US for over 30 farm products.....
 - Apples 2nd
 - Processing Cabbage 2nd
 - Maple Syrup 2nd
 - Milk 3rd
 - Yogurt 1st
 - Cottage Cheese 1st
 - Wine/Juice Grapes 3rd
 - Fresh Mkt Veggies 5th
 - Floriculture 9th
 - Among others



Well-Managed Agriculture as Sustainable Development

Local food and beverage, horticulture, fiber, forest products, therapeutics, and energy +

- Rural economic growth
 - Locally-based transactions
- Jobs
- Taxes paid by farms >> services used
- Conservation and resiliency:
 - Habitat and wildlife corridors
 - Unpaved open space
 - Resiliency for extreme storms and drought
 - Ag is green infrastructure on a broad scale
 - Water and air quality....for multiple purposes
 - Soil health / function
 - Greenhouse gas mitigation
 - Recycling
- Tourism
 - Scenic vistas / Agricultural vistas
- Quality of life





NYS Climate Leadership and Community Protection Act (CLCPA) – 2019

Reduce NYS economy-wide greenhouse gas emissions 40 percent by 2030 and no less than 85 percent by 2050 from 1990 levels.



Agriculture and Forestry Advisory Panel

of the NYS Climate Action Council

Richard Ball, Chair, Commissioner NYS Department of Agriculture and Markets Peter Innes, NYS Department of Environmental Conservation Rafael Aponte, Rocky Acres Community Farm Amanda Barber, Cortland County Soil and Water Conservation District John Bartow, Empire State Forest Products Association Michelle Brown, The Nature Conservancy Tom Gerow, Wagner Lumber Company Suzanne Hunt, HuntGreen LLC and Hunt Country Vineyard Peter Lehner, EarthJustice

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Samantha Levy, American Farmland Trust Robert Malmsheimer, SUNY Environmental Science and Forestry John Noble, Noblehurst Farms Julie Suarez, Cornell University Ned Sullivan, Scenic Hudson Donna Wadsworth, International Paper Elizabeth Wolters, New York Farm Bureau Peter Woodbury, Cornell University Nelson Villarrubia, Trees New York

Carbon Sequestration Strategies for Forests and Farms Goals: return to 1990 C seq. levels by 2030 and more by 2050

> Avoid Conversion of Forest and Farmland

• Maintain and enhance the state's carbon stocks and carbon sequestration potential through avoided forest and farmland use conversion.

> Forest Management

• Increase carbon sequestration through improved, sustainable forest management practices. Secure forest regeneration, improving forest health and productivity, and restore degraded forests.

> Soil Health

• Reduce net GHG emissions and increase carbon sequestration/storage and other adaptation and environmental benefits through <u>adoption</u> of soil health management practices.

> Agroforestry

• Adding trees into areas of agricultural production to increase carbon sequestration and other environmental benefits.

> Reforestation/Afforestation

• Tree plantings focused on underutilized agricultural lands. Increasing tree density in understocked forests.

> Climate Focused Bioeconomy

• Renewable bio-based feedstocks, rather than fossil fuel-based feedstocks, to produce products that achieve the climate and social justice goals of the CLCPA.

Next Steps - everyone has a role....

...farms will continue to be a key part of the solution.

- Tactical plans for individual Scoping Plan priorities
- Applied research, updated tools and guidelines, training, and outreach



- Public sector funding and policy to facilitate larger pool of private sector investment and practice adoption
 - NYS AGM / SWCC, NYSERDA, NYS DEC, USDA, etc.
 - Local Step: meet with your District and/or NRCS to start or resume project planning work

Agricultural Environmental Management

Core Concepts

- Open to all farmers
- Voluntary, incentive-based
- Locally-led & delivered
 - Farmers
 - Soil & Water Conservation Districts
 - Other partners:
 - Natural Resources Conservation Service
 - Cornell Cooperative Extension
 - Farm Service Agency
 - Farmer Organizations
 - NGOs
 - Agri-Business



- <u>Prioritized</u> based on natural resource needs, local AEM Strategic Plans, and farmer goals
- Customized with farm-specific plans
 - Science-based (NRCS Standards)
 - Wide range of practice systems available
- Trust and relationship building
 - Farmers make decisions for their farms and the environment
- Leads to practice adoption
- Promotes teamwork
- Coordinates assistance
- Adaptive to future priorities



AEM 5-Tier Approach

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



AEM Resources



AEM Tier 1 Inventory

Agricultural Tax Relief

Concernation Econom

Agri-Tourism

Air Quality

Biosecurity

Biofuels

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A	GRICULTURAL EN	VIRONMEN	TAL MANA	GEMEN	т	
	Tie		AEM Identific	ation Nun	nber:	
AEM 🗫	County S	County SWCD		Date:	/	1
Evaluator Name:		Evaluating Age	ncy:			
Watershed Identification:						
Farm Name:						
Owner's Name:		Operator's Name	e:			
Address:		Address:				
Phone:		Phone:				
Fax:		Fax:				
Email:		Email:				
Preferred Contact Point? (ple Owner	ase check only one) Operator					

Average Weight: _____ Number: Average Weight: _____ Number: ____ Ianagement Questions (Please check Yes or No) Yes No Do you spread manure? Do you have a manure storage facility? Do you generate process washwater from the cleaning of product or facilities? (i.e. milkcenter, egg wash, washing of produce) Is there a barnvard or outdoor feedlot on your farm? Do you store silage or other high moisture feeds on the farm? Do you utilize pastureland on your farm? Do vou use commercial fertilizer? Do you use pesticides (herbicides, insecticides, fungicides) on your farm? Do you store and/or mix pesticides (herbicides, insecticides, fungicides) on your farm? Does your operation utilize cropland for row crop production? Is the water supply on your farm from a well or a spring? Is there a waterbody within or adjacent to your farm? Do you presently or do you plan to harvest timber on your farm? Do you store fuel or other bulk petroleum products on your farm? Have you received odor complaints or do you believe your farm has an odor concern?

NYS Agricultural Interest Assessment - check all that are of interest

Integrated Pest Management

Manure Treatment Options

Neighbor-Farm Relations

Nuisance Wildlife Control

Organic Farming

Irrigation Management

1) Future Status of the Farm

A) Do you anticipate any major modifications on your farm within the next 5 years?	No
If yes, please check the condition(s) that best describes the modification(s):	

Business Structure	Expansion	Retirement
Operation Type	Diversification of Farm Business	Sale of Farm
B) Do you plan to subdivide any	portion of your farm in the next 5 years?	Ves No

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Tier 1 - Questionnaire

Farm inventory completed by the farmer and AEM team.

- Establishes basic information
- Identifies potential concerns and benefits
- Identifies farmer interests and opportunities
- Determines Tier 2 Worksheet needs



AEM Tier 2 Assessment

Farmer completes Tier 2 Assessment with AEM Staff

- Discussion-based
- Helps gauge existing stewardship <u>and</u> identify resource concerns for improvement
- Worksheets arranged by land uses / management areas
- Educational opportunity
- Tier 2 Worksheets are also a guide/training tool for new AEM staff



AEM Tier 2 Assessment Worksheets

The Tier 2 is a whole farm assessment by design.



"MAKING THE CONNECTION"

TIER 1 QUESTIONNAIRE	RESPONSE	TIER 2 WORKSHEET
Farm Type	A11	Watershed Site Evaluation
Farm Type	A11	Agriculture and the Community
Farm Type	All	Waste Disposal
Farm Type	Any Livestock	Water-borne Pathogens
Farm Type	Dairy	Management of Feed Nutrients
Farm Type	Horse Vineyard Greenhouse Fruit/Vegetable	Utilize specialized Worksheets, as well as those indicated as needed above and below.
Do you spread manure?	Yes	Nutrient Mgmt: Manure & Fertilizer
Do you have a manure storage facility	Yes	Manure & Fertilizer Storage
Is there a barnyard or feedlot on your farm?	Yes	Heavy Use Area Protection
Do you store silage on the farm?	Yes	Silage Storage
Do you generate process wash water from the cleaning of product or facilities? (i.e. milkement, egg woh, wohing of produce)	Yes	Process Wash Water
Do you utilize pastureland on your farm?	Yes	Pasture Management
Do you use fertilizer?	Yes	Nutrient Mgmt: Manure & Fertilizer
Do you store fertilizer?	Yes	Manure & Fertilizer Storage
Do you use pesticides (herbicides, insecticides, fungicides) on your farm?	Yes	Pesticide Use
Do you store and/or mix pesticides (herbicides, insecticides, fungicides) on your farm?	Yes	Pesticide Storage, Mixing and Loading
Does your operation utilize cropland?	Yes	Soil Management
Is the water supply on your farm from a well or a spring?	Yes	Farmstead Water Supply Evaluation
Is there a defined stream within or adjacent to your farm?	Yes	Stream & Floodplain Management
Do you presently or do you plan to harvest timber on your farm?	Yes	Forest Management
Do you store petroleum products on your farm?	Yes	Petroleum & Oil Product Storage
Have you received odor complaints or do you believe you have an odor concern?	Yes	Livestock Odor Management

AEM Tier 2 Workshee Soil Management	t:		Potential Concern		
Factors Needing	Lower			Higher	
Assessment:	1	2	3	4	
What type of tillage practice(s) is used on the farm?	Only continuous no-till or strip till is used, with the exception of periodic incorporation of soil amendments.	A mulch tillage system is used, OR Mulch tillage in combination with no-till.		Full width tillage with little to no crop residue at planting.	
How is crop rotation used on your farm?	Crop rotation is used and includes rotations of at least 3 years of hay crops, small grains and/or legumes.	Crop rotation is used and includes rotations of at least 1 or 2 years of hay crops, small grains and/or legumes.	Crop rotations are used but do not always include hay, small grains, or legumes.	Crops are not rotated.	
What is the minimum level of crop residue cover during the rotation?	A crop residue of 50% or greater is left after planting.	A crop residue of 30% to 50% is left after planting.	A crop residue of 10% to 30% or greater is left after planting.	A crop residue of less than 10% is left after harvest.	
How are cover crops managed on an average year?	Proper cover crop rates and timing are used, AND Seeding includes a diverse mix, including legumes.	Proper cover crop rates and timing are used, AND A single species seeding is used.	Cover crops are used when time and weather permits.	Cover crops are not used.	



AEM Tier 2 Assessment Summary



Filmore County Agricultural Environmental Management (AEM) Program Team

AEM Tier 2 Summary Report

xxxx AEM Project

Farm Name	Springfield Acres	Springfield Acres				
Contact Name	Marge Simpson					
Address	742 Evergreen Rd. (742 Evergreen Rd. (Rt. 193)				
	Bouvier, New York 10	Bouvier, New York 10000				
Phone	777-777-7777					
Evaluator	Waylon Smithers		Phone: 777-999-9999			
Date Prepared	07/23/05 Date Delivered		07/29/05			

Worksheet Name and Number	Level of Concern (1-4)	Items of Concern	Evaluation & Recommendations	
1. Watershed Site Evaluation		P losses from runoff and soil erosion are a concern for Springfield Creek and the Krusty Wildlife Management Area. N leaching and pathogens are a concern for rural residential wells	Details Captured on Tier 2 Worksheet	
		Odona moll		1

		Worksheet Name and Number	Level of Concern (1-4)	Items of Concern	Evaluation & Recommendations
			8	Manune	-Low animal stocking rate.
					-No manure storage.
		3. Manure		nutrient and pathogen	-High runoff and leaching concerns on some fields.
		nanagement		runoff and leaching.	Install manure storage and more efficient spreading schedule (see CNMP: Nutrient Management Section and Concentrated Sources Section).
					-Roof water mixes with barnyard manure.
		4. Barnyards	ž	Manure runoff from barnyard.	-No collection system for barnyard runoff.
					Barnyard runoff should be eliminated or appropriately treated. Roof water diverted
					Section).
_		5 Silara Storaga	4	Silage leachate. P from milking center wash water.	-No silage leachate collection system.
					-Harvest management level is high.
		or mage owings			Install high flow/low flow silage leachate system (See CNMP: Concentrated Sources Section).
		6. Process Wash			-Septic tank and leachfield is of unknown design.
		Water	3		Connect milking center wash water into manure storage system (See CNMP: Concentrated Sources Section).
					-Calf and heifer facilities could be improved for more feed use efficiency.
					-More groups would allow more feed use efficiency.



AEM 5-Tier Approach

	AEM Tier	Purpose	NRCS 9 Step Process	
	Tier 1 – Inventory (Questionnaire)	Basic farm info and interests	1. ID Issues & Opps	Why plan?
	Tier 2 – Assessment ("Tier 2 Worksheets")	Identify existing stewardship, resource concerns, and opportunities	 Determine Objectives Inventory Resources Analyze Resource Data Formulate Alternatives 	vvny plan:
(v	Tier 3 – Planning	Develop conservation plans	 Evaluate Alternatives Make Decisions 	
	Tier 4 – Implementation	Implement conservation practices based on the plans	8. Implementation	NEW YORK STATE OF OPPORTUNITY Agriculture and Markets
	Tier 5 – Evaluation	Evaluate plans, practices, and programs	9. Evaluation	

AEM Tier 3 – Conservation Planning



•Tier 3A – Progressive planning process starts by <u>addressing at least 1</u> priority management area, below. Tier 3A Plan Component options:

- Farmstead,
- Cropland Conservation/Soil Health,
- Nutrient Mgt
 - •NM-Core: requires Certified Crop Advisor (CCA)
 - Full-590: Requires AEM or NRCS Planner Certification
- Pasture Mgt,
- Pest Mgt,
- Forest Conservation, and/or
- Stream Corridor Mgt
- •Tier 3B Comprehensive Nutrient Management Plan (CNMP)
 - Requires AEM or NRCS Planner Certification
- •Tier 3C Whole Farm Plan



AEM Tier 3 – Conservation Planning

Common planning threads...

- Thorough site assessment existing conditions
 - Farmer goals, Tier 2 results, maps, soils, topography, watercourses, wetlands, utilities, property boundaries, aspect, existing herbaceous and woody species, invasive species, existing natural regeneration potential, seed potential from seedbank or proximity to forest edge, existing soil erosion or other resource concerns, etc.
- Develop a BMP System based on NRCS Standards for....
 - Site preparation plans
 - Afforestation (natural regeneration, tree planting) plans
 - Other conservation plans (e.g., crop rotations, grazing management, soil and water management, habitat, recreation)
 - Longer-term monitoring, maintenance, and survivability plans (O&M)
 - Alternatives for farmer selection
- BMP Implementation Schedule, narratives, maps, assistance notes



Agriculture and Markets

AEM Tier 3 – Conservation Planning

Builds on Whole Farm Tier 2 Assessment and farmer goals

- Tree Planting in open lands (for afforestation or agroforestry)
 - Use AEM Tier 3A Forest Conservation Plan guideline or
 - AEM Tier 3A Cropland Conservation Plan guideline for conversions of cropland to agroforestry projects
- Tree Planting in or adjacent to pastures
 - Use AEM Tier 3A Pasture Management Plan guideline
- Forestry/silvicultural projects in forest lands
 - Use AEM Tier 3A Forest Conservation Plan guideline
- Soil and water conservation projects in forests
 - Use AEM Tier 3A Forest Conservation Plan guideline



Many NRCS Standards are used in AEM Tier 3 Plans

www.nrcs.usda.gov/technical/efotg

- Tree/Shrub Site Prep (NY490)
- Tree/Shrub Establishment (NY612)
- Forest Stand Improvement (NY666)
- Forest Farming (NY379)
- Brush Management (NY314)
- Herbaceous Weed Treatment (NY315)
- Fence (NY382)
- Prescribed Grazing (NY528)
- Contour Orchard and Other Perennial Crops (NY331)
- Hedgerow Planting (NY422)
- Access Control (NY472)
- Forest Trails and Landings (NY655)
- $_{\odot}~$ Stream Crossing (NY578) and more....





Department of 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
Forestry / Agroforestry System	Short Term Waste Collection and Transfer System
Integrated Pest Management System	Silage Leachate Control and Treatment System
Irrigation Water Management System	Soil Health System
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	More to come



Ag BMP Systems Catalogue

NEW YORK

Department of Agriculture and Markets

https://agriculture.ny.gov/soil-and-water/agricultural-best-management-practices-catalogue

Forestry / Agroforestry System

- Goal: enhance tree growth for carbon sequestration and other benefits on current or proposed forest lands.
- Example uses....
 - Tree planting for afforestation on open lands
 - Site assessment is key, esp. to gauge natural regeneration potential and forester involvement
 - Tree planting for agroforestry on open lands
 - Site assessment is key, esp. to gauge natural regeneration potential and forester involvement
 - Forestry/silvicultural projects in forests
 - Requires a forester
 - Forester also required if predominately using natural regeneration on open/scrubby lands
 - Soil and water conservation projects in forests
- Forester
 - Option 1: Certification
 - SAF or NRCS TSP for Forestry Planning and Practices
 - Option 2: Combination of Education and Experience
 - Based on college education and work experience per SAF criteria

Forestry / Agroforestry System

DEFINITION

A System of conservation practices that enhances the growth of trees for carbon sequestration and other benefits, conservation of natural resources, and farm viability on current or proposed forest lands.

WATER QUALITY PURPOSE

To reduce soil erosion and reduce/stabilize stormwater flows from existing forest lands and infrastructure (e.g., forest trails and landings, access roads, culverts, stream crossings, buffers, critical area plantings) and protect sensitive hydrologic areas (e.g., wetlands, streams). The system may also be applied to existing crop, pasture, or idle lands to further reduce soil erosion and slow stormwater flows through conversion to a forested land use (afforestation).

POLLUTANT CONTROLLED

Sediment, nutrients, pesticides, biochemical oxygen demand (BOD), or thermal modification.

WHERE USED

This System can be applied to existing forest lands on farms as well as cropland, pasture being converted to forest land (without livestock), or idle lands on farms. This System is currently designed for lands where forestry or agroforestry activities do not include integration with livestock, due to the complexity of silvopasture management. Practices such as Access Control and Fence may be used to exclude livestock and wildlife from the land involved with this System. This System is also not applied to stabilize stream banks or shorelines, as a standalone System; this System and Component BMPs may be used in conjunction with the Stream Corridor and Shoreline Management System to aid in the stabilization of stream banks or shorelines.

The Prescribed Rotational Grazing System shall be used in scenarios where trees will be planted <u>within</u> <u>or immediately adjacent</u> (e.g., Windbreak-Shelterbelt Establishment and Renovation) to existing pastures to support silvopasture objectives.

SYSTEM DESCRIPTION

A Forestry / Agroforestry System consists of conservation practices that enhance the growth of trees and conservation of natural resources on current or proposed forest lands. Projects within this System may take many forms based on the resource concerns, environmental opportunities, farmer goals, and knowledge, skills, and abilities of the those involved in planning and implementing the project with the farmer. Some of example applications of this System, follow.

Tree Planting for Afforestation on Open Lands

The System may involve site preparation, tree planting, and establishment management on existing idle land on farms (i.e., land in advanced herbaceous development with limited natural regeneration, insufficient for forest stand establishment), cropland, or pasture for the <u>purpose of afforestation</u> (e.g., Tree/Shrub Establishment). The intent of the System is to provide multiple benefits across resources, for example with carbon sequestration, soil conservation, water quality, stormwater peak flows, habitat, and farm productivity. Depending on complexity of the site and existing conditions (e.g., landowner goals, soils, slope, aspect, invasive species management, interfering hardwood species, existing natural regeneration potential, seed potential from seedbank or proximity to forest edge, existing soil erosion or other resource concerns), this application may be



Funding Programs to Help Advance AEM on Farms

- Locally-led and sponsored by your Soil & Water Conservation District
 - Projects based on an AEM or equivalent conservation plans (e.g., SWCD, NRCS, CAFO, DAP)
 - Funded through the NYS Environmental Protection Fund via NYS AGM / Soil and Water Conservation Committee
 - AEM Base Program
 - Agricultural Non-Point Source Pollution Abatement and Control Program (AgNPS)
 - Climate Resilient Farming (CRF)
 - Source Water Buffer Program
 - Ecosystem Based Management (EBM) Programs
 - State Aid to Districts
- Other Programs from NYSDEC, USDA-NRCS (EQIP, CSP), USDA-FSA, USEPA, and others....
- + Significant, on-going investment by farmers.



AEM Base Program

Funding for Districts to provide.....

- conservation <u>technical</u> <u>assistance</u> through AEM's 5-Tiers and
- 2. <u>cost-share funding with farmers</u> <u>to implement BMP Systems in</u> <u>Tier 4</u> (\$200K max/District; twoyear cycles)

AEM Tier	Purpose	NRCS 9 Step Process
Tier 1 – Inventory (Questionnaire)	Basic farm info and interests	1. ID Issues & Opps
Tier 2 – Assessment ("Tier 2 Worksheets")	Identify existing stewardship, resource concerns, and opportunities	 Determine Objectives Inventory Resources Analyze Resource Data Formulate Alternatives
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Ag Non-Point Source Water Quality Program

About:

- AgNPS program was created in 1993
- First Round of AgNPS was awarded in 1994
 \$340,000
- Approximately, \$254 million has been awarded for AgNPS projects
- Approx. \$25 million available for projects in Round 30
 - RFP out in fall 2024

Program Goals:

- Water quality protection
- Reduce and/or prevent the non-point source contribution from agricultural activities in watersheds across the State
- Utilize AEM Framework and Soil and Water Conservation Districts to implement the program



Climate Resilient Farming (CRF) Grant Program

Launched in 2015 (Rounds 1-8)

- ~\$69 million awarded
- 570 farms
- ~574,000 metric tons of CO2e/yr estimated emissions reduction
 - Includes 29 cover/flare projects to date

• Four tracks (as of Round 8):

- 1. Livestock Management: Alternative Manure Management & Precision Feed Management
- 2. Adaptation & Resiliency
- 3. Healthy Soils NY
- 4. Agricultural Forest Management
- Goals: GHG Mitigation, C Sequestration, and Adaptation + Farm Viability



CRF Funding Tracks

CRF Track 2

- Adaptation & Resiliency (emphasis on water management for flood and drought)
 - Riparian Buffer System
 - Stream Corridor and Shoreline Management System
 - Erosion Control System Structural
 - Irrigation Water Management System
 - Access Control System
 - Prescribed Rotational Grazing System
 - Integrated Pest Management
 - Weather monitoring systems and tools
 - Green Infrastructure Systems



CRF Funding Tracks

CRF Track 3

- Soil Health
 - Cover crops, conservation tillage, structural soil conservation practices, conservation crop rotations, buffers, agroforestry, etc.
 - Outreach eligible expense
 - Equipment eligible expense, e.g.,
 - draghose systems associated with improved NM and SH
 - yield monitors and adaptive management;
 - cover crop seeders;
 - central tire inflation systems





Soil and Water Conservation Committee

• etc.

CRF Funding Tracks

CRF Track 4 (new in Round 8)

• Afforestation / Forest Management on Farms

- Tree planting (or natural forest regeneration) on underutilized Ag lands
- Forest regeneration work in existing woodlands on farms
- Along with landowner goals, primary goal is carbon sequestration





Agricultural Environmental Management

Daily, incremental progress is meaningful and makes the difference.

.... let's keep doing it together.

Daniel Berheide Senior District Technician Essex County Soil and Water Conservation District

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Greg Albrecht AEM Coordinator Principal Environmental Analyst Div. of Land and Water Resources Dept. of Agriculture and Markets NYS Soil and Water Conservation Committee

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https://agriculture.ny.gov

https://agriculture.ny.gov/soil-and-water/soil-water-conservation-committee



C Department of Agriculture and Markets

Web Soil Survey - <u>websoilsurvey.sc.egov.usda.gov</u>

USDA United States Department of Agriculture 71 81 91 Natural Resources Conservation Service	Með soll Survey Ar	United States Depart	rent of Agriculture	
Contact Us Subscribe 🔝 Archived Soil Surveys Soil S	Irvey Status Glossary Preferences Link Logout Help A A A	Natural Resour	ces Conservation Service	
Area of Interest (AOI) Soil Map Soil	Data Explorer Download Soils Data Shopping Cart (Free)		Neos	ol Survey .
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Intro to Soils Suitabilities and Limitations	for Use Soil Properties and Qualities Ecological Sites Soil Reports			I Want To
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		All NRCS Sites V		 Know Web Soil Survey
		Browse by Subject		Requirements
Auf Inventory		• Soils Home	Welcome to Web Soil Survey (WSS)	• Know Web Soil
Construction Materials		 National 	Web Soil Survey (WSS) provides	Survey operation
Disacter Recovery Planning		Cooperative Soil	soil data and information	• Find what areas of
Land Classifications		Survey (NCSS)	Cooperative Soil Survey. It is	the U.S. have soil
Land Management		• Archived Soil	operated by the USDA Natural	data
Recreational Development (2)		Surveys	(NRCS) and provides access to the largest natural	 Find information by topic
Sanitary Facilities		 Status Maps 	resource information system in the world. NRCS	 Know how to
Soil Chemical Properties (2) (3)		• Official Soil Series	has soil maps and data available online for more than 95 percent of the nation's counties and	hyperlink from
Soil Erosion (2)		Descriptions (03D)	anticipates having 100 percent in the near future.	other documents to Web Soil Survey
Soil Health		 Series Extent Explorer 	The site is updated and maintained online as the single authoritative source of soil survey	Know the SSURGO
Soil Physical Properties		Explorer	information.	data structure
Soil Qualities and Features	Vos vos	 Geospatial Data Gateway 	Soil curveys can be used for general farm local	• Use Web Soil
Vegetative Productivity (2) (3)		eFOTG	and wider area planning. Onsite investigation is	Survey on a mobile device
Environmental Plantings and Windbreaks		National Soil	needed in some cases, such as soil quality	
Forestland Productivity 🥥	Ama Vise	Characterization	engineering applications. For more detailed	
Forestland Productivity with Site Index Base 🛛 😵		Data Soil Health	information, contact your local USDA Service	Announcements/Events
View Description View Soil Report	and man	Soil Geography	Center of your NRCS State Soil Scientist at the	 Web Soil Survey 3.4.0 has been
Options	Via Via	Son Geography	following link: <u>NRCS State Soil Scientist</u> .	released! View
Include minor soils?	A THOMAS AND A THO		Four Basic Steps	Web Soil Survey
			1 Define	Sign up for e-mail
				updates via

GovDelivery

Use the Area of Interest tab to define