What Resources are Available to Help with Flooding?

An Educational Event for Property Owners in Lodi & wider Seneca County

Brought to you by the Floodwater Committee of the Lodi Climate Smart Community (CSC) Team Seneca County Cornell Cooperative Extension, Seneca County Soil & Water Conservation District, USDA- Natural Resources Conservation Service and USDA-Farm Services Agency

AGENDA

Welcome and Introduction:

Flood Survey Map & Importance of Flood Mitigation Strategies

• Laurie VanVleet, Lodi Climate Smart Community (CSC) Team & Floodwater Committee

Agenda Overview & Introductions

Anisa Mendizabal, Lodi Climate Smart Community (CSC) Team & Floodwater Committee

Changing Weather Patterns, Anatomy of a Flood and Floodplains

♦ Ryan Staychock, Seneca County Cornell Cooperative Extension

Best Management Practices and Available Resources

• Erin Peruzzini, Seneca County Soil and Water Conservation District

Additional Resources

•Daniel Tighe, Natural Resources Conservation Service, USDA

John Mietz, Farm Service Agency, USDA

Question and Answer

♦ Laurie VanVleet, Lodi Climate Smart Community (CSC) Team & Floodwater Committee

Closing

Anisa Mendizabal, Lodi Climate Smart Community (CSC) Team & Floodwater Committee



SOIL AND WATER CONSERVATION DISTRICT

Soil & Water Conservation District

Erin Peruzzini

"The nation that destroys its soil, destroys itself" -FDR

How the Dust Bowl led to the creation of the Seneca County Soil and Water Conservation District

| Image: Sector State Sta | | DAY 1935 AV ay asses 1-590q g the Soil on Service USDA Rele Standard S Conservat Law" | VSDA Releases "A Standard State Soil Conservation Districts Law" Soil Conservation Class Soil Conservation Districts Conservation Districts Law" VSDA Releases "A Standard State Soil Conservation Districts Law" Soil Conservation Districts Conservation Districts Conservation Districts Law" | | | And the experimentationNew York State Conservation Distric Law adopted Jr311900000000000000000000000000000000000 | |
|---|------|--|--|------|------|---|----------|
| 1935 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 1 | .940 |
| In the early 1930s, along with the Great Depression, came an equally unparalleled agricultural and ecological disaster known as the Dust Bowl. | | | Since its inception, the Seneca County SWCD has worked with landowners, agricultural producers, and municipalities to protect Seneca County's natural resources while maintaining resource productivity. Over 80 years of Conservation in Seneca County! | | | | palities |

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Purpose

The primary purpose of the District is to improve and protect the land, water and related resources both existing and potential; to discourage land use practices that are detrimental to the environment; and to develop and carry out preventive and creative programs aimed at conserving and enhancing the natural resource base of the County and the State. The Seneca **County Soil and Water Conservation District** is an <u>action agency</u>. It <u>has the power to plan</u> as well as to implement the physical work on both public and private lands.



Soil & Water is <u>NOT</u> regulatory.



Best Management Practices also known as BMPs are designed to: Protect water quality by minimizing erosion and surface water run-off. They maintain hydrologic processes by limiting disturbances to water flow patterns.





FLOODING

Floods are unpredictable, natural and inevitable events.

Changing Weather Patterns

Higher Frequency Storm Events

More Localized Storms

Increase in Intensity of Rainfall

Floods are the most common and widespread Natural Disaster in the United States.

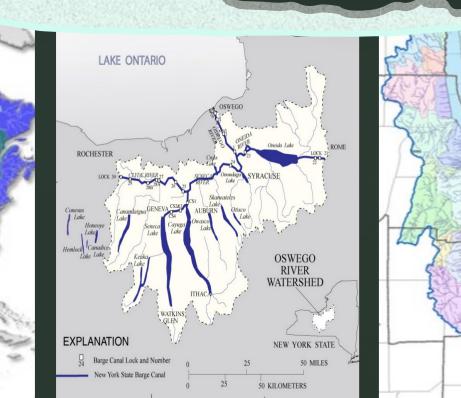
FLOOD CONTRIBUTORS

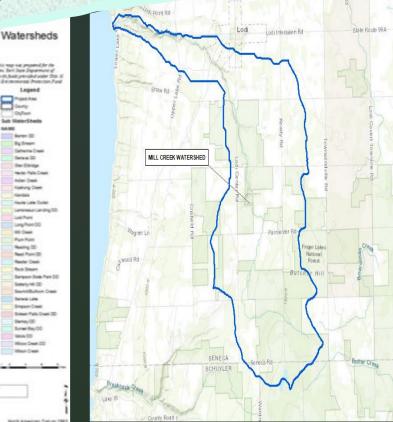
- Intensity of Rainfall
- Watershed Size & Shape
- Land Use
- Topography / Slope
- Soil Type / Geology
- More impervious surface = Reduced infiltration
- Obstructions in flow

WATERSHEDS

What is a watershed?

• Area of land that **channels water** to creeks, streams, and rivers, to a common outlet point such as lakes and oceans.





The map was pr

Inclusion Labor

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FLOODING IMPACTS

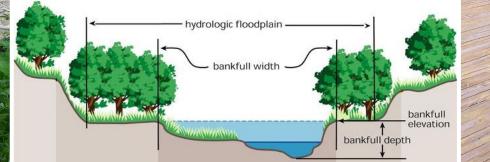
- Loss of Human Life
- Loss of Property
- •Affects on roads and infrastructure
- Disruption to transportation and utility services
- Economic and financial implications
- Increased threats to water quality
- Spread of water-borne communicable diseases

Densely populated areas are at more risk. Roughly **17% of all urban land** in the United States is **located in high-risk flood zones**.



FLOODPLAINS

 What is a flood plain?
 Floodplains are low-lying lands next to rivers and streams. When left in a natural state, floodplain systems store
 and dissipate flood waters without adverse impacts on humans, buildings, roads and other infrastructure.





AND DAMAGES TO PROPERTY



RESOURCE ASSISTANCE



RESIDENTIAL



AGRICULTURE

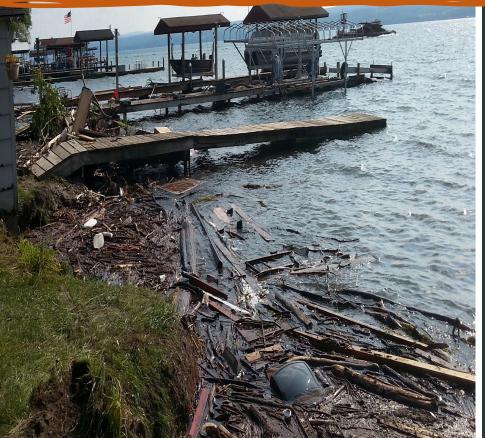


MUNICIPAL

RESIDENTIAL

-DO NOT build in a flood plain.

-If existing home or structures are in a flood plain take measures to reduce potential damage.





Simple low-cost maintenance for flood mitigation

-Be aware of streams, floodplains & wetlands on your property and neighboring properties & observe their flooding habits & assess risk.

- -Mow and maintain road ditches.
- -Don't throw yard waste in road ditches, streams or wetlands.
- -Routinely inspect culvert inlets and road ditches to make sure they are free of debris. -Keep outdoor areas uncluttered and don't place items in floodplains.

-Remove fallen trees in streams that might catch flood debris and change flow paths. -Clean and maintain roof gutters and outlets.

Standard BMPs for flood mitigation

-Install roof gutters and downspouts.

-Install a sump pump, French drain or perimeter drain around your house or structure. -Improve grading around the home.

-Elevate utilities and service equipment.

-Reduce impermeable surfaces.

-Install a rain barrel or rain garden.

RESIDENTIAL – CAUTIONARY DON'Ts

Don't narrow the stream outlet.







Don't build homes or structures in flow paths.

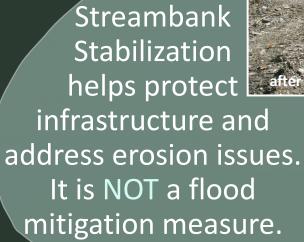


RESIDENTIAL – ASSISTANCE

STREAMBANK STABILIZATION







before





RESIDENTIAL - FUNDING



Mill Creek – Streambank Stabilization 2007

NYS Department of Environmental Conservation (DEC)
 -Water Quality Incentive Program (WQIP)
 -BMPs related to Water Quality primarily focused on erosion control.

OTHER FUNDINGS SOURCES

-Finger Lakes Lake Ontario Watershed Protection Alliance (FLLOWPA)

-BMPs related to Water Quality.

AGRICULTURE

Cultural Practices -Cover Crops -Contour Farming -Strip Cropping -Residue & Tillage Management -Reduced Tillage -Buffers

Structural earth moving practices -Grassed Waterways -Diversions -Water and Sediment Control Basins -Stormwater Basins



AGRICULTURE – CULTURAL PRACTICES

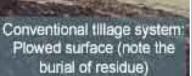


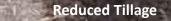


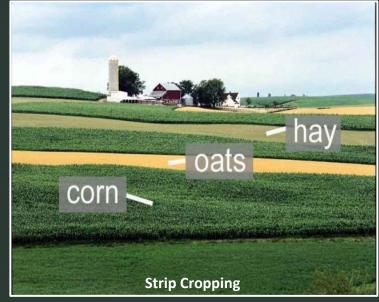




A conservation tillage system: No-till residue surface









AGRICULTURE – GRASSED WATERWAYS







A vegetated channel that conveys surface water at a nonerosive velocity using a graded broad and shallow cross section to a stable outlet.

AGRICULTURE - DIVERSIONS



after



before

A vegetated channel constructed across the slope to break slope length that intercepts surface flow, diverts it away from sensitive areas and reduces runoff and erosion.





AGRICULTURE – WATER SEDIMENT CONTROL BASINS

An earthen embankment with an underground outlet constructed across the slope of a minor drainageway that detains water and slowly releases it to a stable outlet.



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AGRICULTURE – WATER SEDIMENT CONTROL BASINS







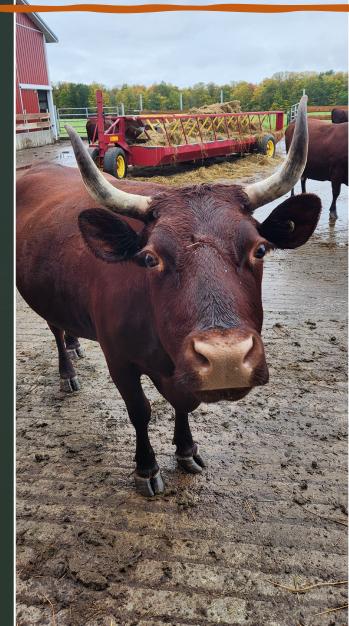
AGRICULTURE – STORMWATER BASIN

A dry earthen basin designed to temporarily detain stormwater. The basin allows sediment to settle while controlling flow.

before



FUNDING



NYS AG & MARKETS

- -Agricultural Non-Point Source (AGNPS)
 - –Larger BMPs related to Water Quality including Nutrient
 Management, Barnyard / Heavy Use Area Protection, Cover
 Crops...
- -Climate Resilient Farming (CRF)
 - –BMPs related to climate 3 tracks-Manure Cover & Flares -Flooding & Erosion
 - -Cover Crops
- -Ecosystem Based Management (EBM)
 - –Smaller BMPs for Water Management & Erosion Control

OTHER FUNDINGS SOURCES

-Finger Lakes Lake Ontario Watershed Protection Alliance (FLLOWPA) —BMPs related to Water Quality.

Eligibility requires...

-Participation in the NYS Ag & Markets – Agricultural Environmental Management (AEM) Program -Cost share (typically 75% -25%)

MUNICIPAL

-Assess road ditches for proper flow. Only clean when necessary, NEVER in winter.

-Stabilize eroded areas with rock armor or check dams.

-Routinely assess and maintain culverts.

-Replace undersized or aging culverts with properly engineered structures.

-Conduct drainage assessments and routine maintenance schedules of flood prone areas.

-Implement **Green Infrastructure** practices to alleviate flooding.

-Functional and educated **Planning Boards** that help make informed decisions.



MUNICIPAL - HYDROSEEDING



Hydroseed is a slurry of seed and mulch material used as an erosion control technique. SWCD will hydroseed for FREE.

MUNICIPAL – ROADBANK STABILIZATION





SWCD can assist with sizing, design and obtaining grant funds to pay for materials.

Rock Rip-Rap is used to stabilize road ditches, slow water flow and reduce erosion.

Check dams are utilized on steeper slopes to reduce water velocity.



MUNICIPAL - CULVERTS









SWCD can assist with Hydrologic studies, culvert sizing & design, grant applications and funding for materials.



MUNICIPAL – TRASH GUARDS





Trash Guards capture flood debris, allow for continued flow of storm water while protecting infrastructure.

MUNICIPAL – GREEN INFRASTRUCTURE





Green Infrastructure is an approach to water management that mimics natural permeable surfaces that allows for better infiltration and stormwater management.



MUNICIPAL – FUNDING



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 -BMPs related to Water Quality.

FUNDING - REVIEW

RESIDENTIAL & MUNICIPAL:

NYS Department of Environmental Conservation (DEC)

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OTHER FUNDINGS SOURCES

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AGRICULTURAL:

NYS Agriculture & Markets

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Management, Barnyard / Heavy Use Area Protection, Cover Crops...
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Manure Cover & Flare
 Flooding & Erosion
 Cover Crops

-Ecosystem Based Management (EBM) Smaller BMPs for Water Management & Erosion Control.

OTHER FUNDINGS SOURCES

-Finger Lakes Lake Ontario Watershed Protection Alliance (FLLOWPA) BMPs related to Water Quality.

FUNDING - CONSIDERATIONS

1. It takes Time –

-Planning Phase & Preliminary Engineering: 1-3 years
-Grant Application: 1-3 months
-Grant Review & Ranking: 4-12 months
-Grant Award & Contract: 3-6 months
-Contract & Implementation length: 3 years
-Closeout & Reporting: 3-6 months

2. Cost Share – landowner or other funding source match requirement of at least 25% of total project cost.

3. Grant Funding is Competitive = NO GUARANTEES





United States Department of Agriculture



Opportunities Available Through NRCS

January 17, 2024– Dan Tighe, Resource Conservationist

Natural Resources Conservation Service

nrcs.usda.gov/



A Brief History of NRCS

- April 27, 1935: Congress passed Public Law 74-46, in which it recognized that "the wastage of soil and moisture resources on farm, grazing, and forest lands . . . is a menace to the national welfare" and established the Soil Conservation Service (SCS) as a permanent agency in the USDA.
- In 1994, SCS's name was changed to the Natural Resources Conservation Service to better reflect the broadened scope of the agency's concerns. In doing so, Congress reaffirmed the federal commitment to the conservation of the nation's soil and water resources, first made more than 80 years ago, that continues to this day.





Natural Resources Conservation Service



Nine Step Planning Process 🕗 🛆 💩 💩 🎸

The Natural Resources Conservation Service uses a nine-step planning process whenever it begins a project. The purpose of the steps is to develop and implement plans that protect, conserve, and enhance natural resources within a social and economic perspective.



Resource Concerns

Category - Soil 1. Sheet and rill erosion 2.Wind erosion 3. Ephemeral gully erosion 4. Classic gully erosion 5.Bank erosion from streams, shorelines, or water conveyance channels 6.Subsidence 7.Compaction 8.Organic matter depletion 9. Concentration of salts or other chemicals 10.Soil organism habitat loss or degradation 11.Aggregate instability **Category - Water** 12. Ponding and flooding 13.Seasonal high-water table 14.Seeps 15.Drifted snow 16.Surface water depletion 17. Groundwater depletion 18.Naturally available moisture use 19.Inefficient irrigation water use 20.Nutrients transported to surface water 21.Nutrients transported to groundwater 22. Pesticides transported to surface water 23.Pesticides transported to groundwater 24. Pathogens and chemicals from manure, biosolids, or compost applications transported to surface water

25.Pathogens and chemicals from manure, biosolids, or compost applications transported to groundwater
26. Salts transported to surface water

27.Salts transported to groundwater 28.Petroleum, heavy metals, and other pollutants

transported to surface water

29.Petroleum, heavy metals, and other pollutants transported to groundwater

30. Sediment transported to surface water

31. Elevated water temperature

Category - Air

32. Emissions of particulate matter (PM) and PM precursors 33. Emissions of greenhouse gasses (GHGs) 34. Emissions of ozone precursors 35.Objectionable odors 36. Emissions of airborne reactive nitrogen **Category - Plants** 37.Plant productivity and health 38.Plant structure and composition 39.Plant pest pressure 40.Wildfire hazard from biomass accumulation **Category - Animals** 41. Terrestrial habitat for wildlife and invertebrates 42. Aquatic habitat for fish and other organisms 43. Feed and forage imbalance 44.Inadequate livestock shelter 45.Inadequate livestock water quantity, quality and

45.Inadequate livestock water quantity, quality and distribution

Category - Energy

46.Energy efficiency of equipment and facilities 47.Energy efficiency of farming/ranching practices and field operations





Conservation Plans

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What is a conservation plan?

- It is voluntary, site specific, comprehensive, and action-oriented...
- It is based on natural resource information and is a record of decisions made by the client...
- Which describes a system of practices and activities needed to solve identified natural resource problems and take advantage of opportunities.
- A conservation plan includes:
- Producer/landowner determined objectives and goals;
- An aerial photo and diagram of your farm;
- A soil map and soil descriptions of your property;
- Resource inventory data, forage crop potentials, livestock carry capacity, etc.;
- A list of treatment decisions;
- A location and schedule for applying conservation practices you want to install on your land; and
- A plan of operation and maintenance of your conservation system.





Programs Offered in New York 📣 💩 💩 🎸

- Agricultural Conservation Easement Program (ACEP)
 - Consolidates
 - ALE Agricultural Land Easements
 - WRP Wetland Reserve Program
- Conservation Stewardship Program (CSP)
 - Compensates agricultural/forest producers who agree to increase their level of conservation by <u>adopting additional conservation activities</u> and <u>maintaining their</u> <u>baseline level of conservation</u>.
- Environmental Quality Incentives Program (EQIP)
 - Technical and financial assistance to producers to <u>address natural resource concerns</u> such as: water and air quality, depleted ground and surface water, soil erosion and sedimentation, insufficient wildlife habitat, and livestock health.
- Agricultural Management Assistance (AMA)
 - Producers may construct or improve water management structures or irrigation structures; plant trees for windbreaks or to improve water quality; and mitigate risk through production diversification or resource conservation practices
 - <u>Urban Agriculture Initiative</u>
- Emergency Watershed Protection Program (EWP)
 - The Emergency Watershed Protection (EWP) Program, a federal emergency recovery program, helps local communities recover after a natural disaster strikes.



How Financial Assistance Programs Work

Eligibility

- Land (farmstead, cropland, pastureland, non-industrial private forestland)
 - Must have an identified, eligible resource concern
 - Documented control-of-land (deed or lease)
- Producer
 - Engaged in agricultural production or forestry management



- Adjusted Gross Income (AGI) annual limitations (less than \$900,000)
- In compliance with the Food Security Act: Highly Erodible Land (HEL) and Wetland Conservation (WC) compliance

Natural Resources Conservation Service



Program Eligibility

- B. Producer.-Eligible applicants must be-
 - A person, legal entity, Indian Tribe, Alaska Native corporation, or joint operation with signature authority.
 - (2) Engaged in agricultural production or forestry management or have an interest in the agricultural or forestry operation associated with the land offered for enrollment. Interest in the agricultural operation means one of the following:
 - (i) Owner or renter of the land in the agricultural operation;
 - (ii) Have an interest in the agricultural products, commodities, or livestock produced by the agricultural operation; or
 - (iii) Be a member of a legal entity or joint operation that either owns or rents land in the agricultural operation or has an interest in the agricultural products, commodities, or livestock produced by the agricultural operation.
- E. Ineligible Applicants
 - (1) A producer is ineligible for USDA program benefits if engaged in controlled substance activities, including growing marijuana on any part of their agricultural operation in violation of Federal law, even if the requested assistance does not relate to the part of

(440-530-M, 2nd Ed., Nov 2022)

530-C.2

- B. Farm Tract Eligibility FTE. Determine if participant is "In Compliance" and FTE eligibility = "Y":
 - (i) Highly Erodible Land Conservation (HELC)
 - (ii) Planted Converted Wetland- PCW (If applicable)
 - (iii) Converted Wetland CW (If applicable)

| Farm Bill | AGI Requirement for Covered Conservation Programs |
|-------------------|--|
| 2002 Farm Bill | A person or legal entity that is determined to have an average AGI, as defined, that is less than 75 percent from farming, ranching, or forestry operations and that exceeds \$2.5 million is ineligible for any covered conservation payment or benefit during the applicable year. |
| 2008 Farm Bill | A person or legal entity with an average adjusted gross nonfarm income exceeding\$1 million is ineligible for any covered conservation program payment or benefit, unless at least 66.66 percent of total AGI was farm income. |
| 2014 Farm Bill | A person or legal entity with average AGI greater than \$900,000 is ineligible for any covered program payment or benefit. |
| 2018 Farm Bill | A person or legal entity with average AGI greater than \$900,000 is ineligible for any covered program payment or benefit. |

Title 440 - Conservation Programs Manual

the agricultural operation used for the production of the controlled substance. See section 530.21D, in this subpart, for guidance on hemp production.

(2) Federal, State, county, and local governments, and political subdivisions of State government (e.g., school districts, conservation districts, etc.) and entities with members of units of government or subdivisions, are not eligible. See subpart R, section 530.402, "EQIP Eligibility," of this manual for exceptions to this policy. Natural Resources Conservation Service

nrcs.usda.gov/

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JSDA

Farmstead:

- Comprehensive Nutrient Management Plans (CNMPs)
- Covered Barnyards
- Waste Storage Facilities
- Silage Leachate Collection Systems
- Milking Center Waste Collection Systems
- Agrichemical Handling Facility





Projects Completed with NRCS Assistance 🕗 🕗 🔇



Completed Covered Barnyard

Existing barnyard before NRCS assistance



Natural Resources Conservation Service



Projects Completed with NRCS Assistance 🕗 🕗 🎸



Installed total collection system for silage leachate

Completed waste storage facility



Natural Resources Conservation Service

Cropland:

- Cover Crops
- Diversion ditches
- Grassed Waterways
- Strip Cropping



Strip cropping

Grassed Waterway



Projects Completed with NRCS Assistance 🕗 🕗 🤇



Natural Resources Conservation Service

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- Grazing
- Prescribed Grazing Plan
- Based on the practices identified in your Prescribed Grazing Plan applicants can apply for:
 - Fence
 - Waterline
 - Watering Facilities
 - Stream Crossing
 - Wells, spring developments, ponds
 - Access road
 - Animal Trails and Walkways





Natural Resources Conservation Service

High Tunnels- extends the growing season and makes it possible to grow crops that traditionally wouldn't grow locally

- Must already be growing crops in the area where you are interested in applying to install a high tunnel.
 - Can not be installed in a wetland or hydric soil (wet soil) areas



- the area where you are interested in installing a high tunnel.
- Must have water already available on site for irrigation.



Natural Resources Conservation Service

Pollinator Habitat

- Can apply to have a Pollinator Habitat Plan funded.
- If you have been actively farming land and not using pesticides you can potentially apply for pollinator habitat funding without having a completed Pollinator Habitat Plan.



Grassland and Shrubland Habitat

- Grassland Habitat- Goal is to provide habitat to grassland nesting birds by providing open fields for them to nest in.
 - The main activity we promote is mowing outside of the nesting season (after August 1)
- Shrubland Habitat- Goal is to conserve populations of shrubland birds and other early successional wildlife through promoting shrubland areas.





Grassland habitat

Natural Resources Conservation Service

Shrubland habitat

Forestry

- A Forest Stewardship Plan is required before applying for additional forestry funding. Can apply for funding to hire a private forester to write the plan through NRCS, or can contact your DEC Forester and ask them to complete a free Forest Stewardship Plan for you.
- Types of Practices eligible through forestry funding:
 - Forest Health Thinning
 - Tree planting
 - Invasive Species removal and treatment
 - Forest Trails and Landings, water bars
 - Wildlife habitat (bat boxes, brush piles)



Natural Resources Conservation Service



Financial Assistance Programs

CSP: Conservation Stewardship Program

- For landowners who are actively engaged in applying conservation activities on their land.
- Helps participants to maintain and improve their existing conservation systems and to adopt additional conservation activities.
- Payments for:
 - Improving, maintaining, and managing existing conservation activities.
 - Undertaking additional conservation activities



Natural Resources Conservation Service

Conservation Stewardship Program () ()

• Types of Land typically enrolled in CSP

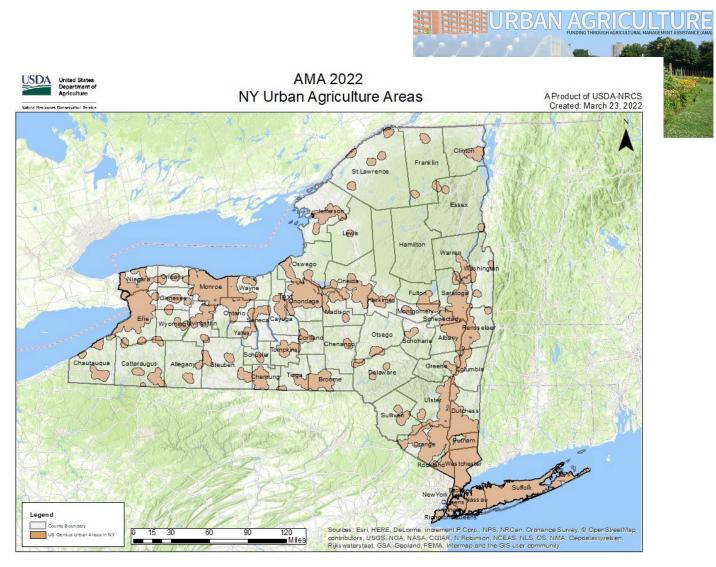
Cropland

Jnited States Department of Agriculture

USDA

- Examples of enhancements:
- · Cover crop to suppress excessive weed pressures and break pest cycles,
- Pasture
 - Examples of enhancements:
 - following a more intensive rotation, creating wildlife buffers
- Forestland
 - Examples of enhancements:
 - Brush management for improved structure and composition
 - Snags, den trees, and coarse woody debris for wildlife habitat
- Participants interested in CSP need to be prepared to manage their own contract and supply the NRCS field office with records every fall documenting the completion of the enhancement. Documentation includes things such as pictures of completed enhancements, documentation of planting dates, detailed rotational grazing notes, and anything else required by NRCS to document implementation and completion of the enhancement.

Agricultural Management Assistance 🕗 🍛 🤇



Available Practices

Access Road (560) Combustion System Improvement (372) Composting Facility (317) Conservation Cover (327) Conservation Crop Rotation (328) Cover Crop (340) Critical Area Planting (342) Fence (382) Field Border (386) Forage and Biomass Planting (512) Heavy Use Area (561) Hedgerow Planting (422) Herbaceous Weed Treatment (315) High Tunnel System (325) Irrigation Pipeline (430) Irrigation Reservoir (436) Irrigation System, Microirrigation (441) Irrigation Water Management (449) Livestock Pipeline (516) Mulching (484) Nutrient Management (590) Obstruction Removal (500) Pest Management Conservation System (595) Prescribed Grazing (528) Pumping Plant (533) Roof Runoff Structure (558) Sprinkler System (442) Stormwater Runoff Control (570) Trails and Walkways (575) Underground Outlet (620) Upland Wildlife Habitat Management (645) Watering Facility (614) Wildlife Habitat Planting (420) Windbreak/Shelterbelt Establishment (380) Windbreak/Shelterbelt Renovation (650)

The **EWP Program** offers technical and financial assistance to help local communities relieve imminent threats to life and property caused by floods, fires, windstorms and other natural disasters that impair a watershed.

- EWP does not require a federal disaster declaration by federal for program assistance to begin.
- The NRCS State Conservationist can declare a local watershed emergency and initiate EWP program assistance in cooperation with an eligible sponsor.

NRCS offers financial and technical assistance for various activities under the EWP Program, including:

- Remove debris from stream channels, road culverts and bridges;
- Reshape and protect eroded streambanks;
- Establish vegetative cover on critically eroding lands;
- Repair certain conservation practices, and
- Purchase of EWP Buyouts.



Introduction to the EWP Program



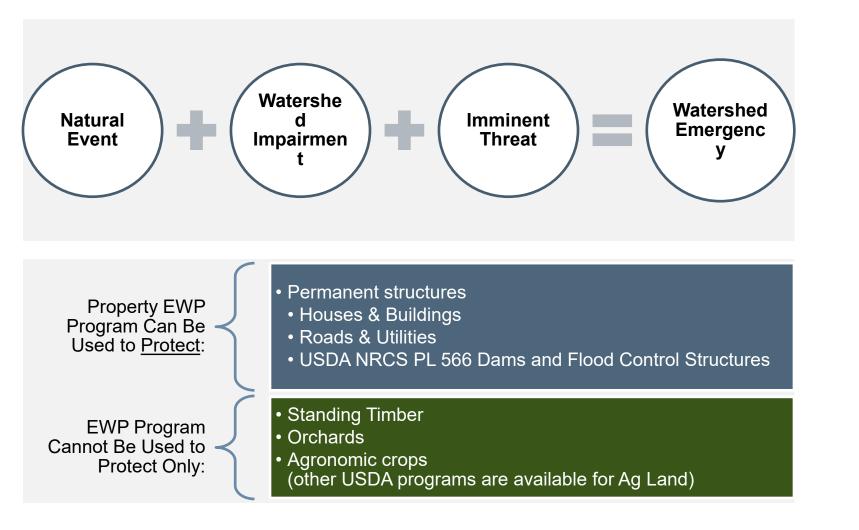
Natural Occurrences

- Floods
- Fires
- Windstorms
- Ice storms
- Hurricanes/ Typhoons
- Tornadoes
- Earthquakes
- Volcanic actions
- Slides
- Drought





Program Eligibility





Natural Resources Conservation Service



EWP Sponsors



Eligible Sponsors

- State
- Political Subdivision of State
- Qualified Indian Tribe or Tribal Organization
- Unit of local government
- All sponsors must have a legal interest in or responsibility for the areas threatened

Sponsor Responsibilities

- Share of project costs as determined by NRCS as cash or in-kind services
- Real property rights, water rights, and regulatory permits
- Provide for required O&M as determined necessary by NRCS
- · Document they have insufficient resources to provide adequate relief





Limits on EWP Assistance

Situations where EWPP cannot provide assistance:

- **X** The same structural practice 3 times within 10 years
- Existing operation and maintenance
- Repair or rebuild, or maintain any transportation facilities, utilities, or similar facilities
- If funded by NRCS, on Federal lands if such assistance augments the appropriations of other Federal agency
 - Repair of nonstructural management practices, such as conservation tillage

Repair coastal erosion to beaches, dunes, and shorelines, including those along the Great Lakes

The recovery measures are instead eligible for the Emergency Conservation Program (FSA)



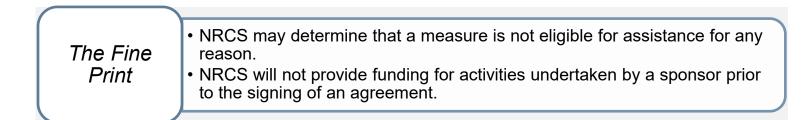
Natural Resources Conservation Service



Eligible EWP Practices



- Provide protection from flooding or soil erosion
- Reduce threats to life or property from watershed impairment
- Restore the hydraulic capacity to the natural environment to the maximum extent practical
- Be economically/environmentally defensible & technically sound





Natural Resources Conservation Service



EWP Alternatives

USDA NRCS EWP Program Buyout Alternative

In communities impacted by constant flooding or severe erosion due to a natural disaster, a property **buyout** might be the best solution or alternative.

https://www.nrcs.usda.gov/programs-initiatives/emergency-watershed-protection-ewp-program-buyouts

EWP buyouts are used where structural alternatives to reduce threats from flooding and erosion are not cost-effective and/or beneficial. Once NRCS determines that buying a flood-prone property (for example) would provide the pivotal solution and sustainable course of action for a community, EWP has the authority to provide local sponsors with financial assistance to purchase and restore the property.

NRCS may provide project sponsors up to 75 percent of:

- the fair market value based on an appraisal for the property,
- relocation costs, and
- the site restoration costs.



EWP Examples



Natural Resources Conservation Service

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EWP Examples Cont.



Natural Resources Conservation Service

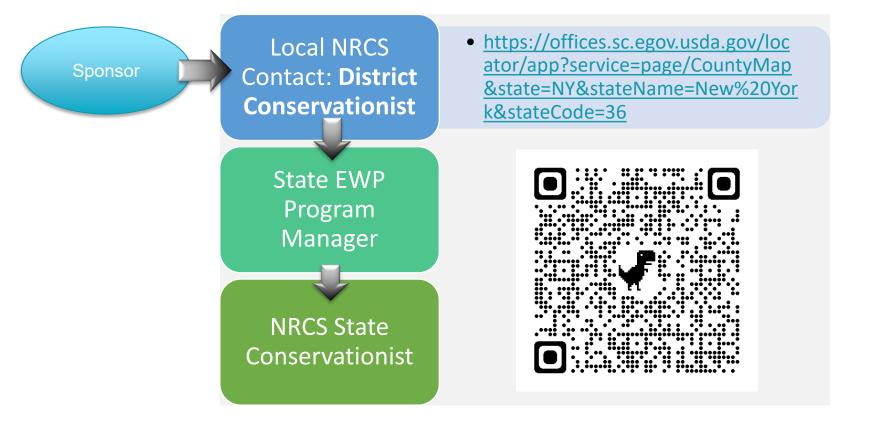
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How to Contact US

<u>FIRST</u> Contact is your Local County's

USDA Natural Resources Conservation Service District Conservationist





Agricultural Conservation Easement Program () (

Protects the agricultural viability and related **conservation values** of eligible land by limiting nonagricultural uses which negatively affect agricultural uses and conservation values, protect grazing uses and related conservation values by restoring or conserving eligible grazing land, and protecting and restoring and enhancing wetlands on eligible land.

ACEP has two components:

Agricultural Land Easements (ALE) help private and tribal landowners, land trusts, and other entities such as state and local governments protect croplands and grasslands on working farms and ranches by limiting non-agricultural uses of the land through conservation easements.

Wetland Reserve Easements (WRE) help private and tribal landowners protect, restore and enhance wetlands which have been previously degraded due to agricultural uses.

Natural Resources Conservation Service





ACEP – Agricultural Lands Easement 🙆 💩 💩 🎸

protects the long-term viability of the nation's food supply by preventing conversion of productive working lands to non-agricultural uses

Eligible land: agricultural land, cropland, rangeland, grassland, pastureland and nonindustrial private forest land.

For working farms, the program helps farmers and ranchers keep their land in agriculture. Under the Agricultural Land Easement component, NRCS may contribute up to 50 percent of the fair market value of the agricultural land easement.

Where NRCS determines that grasslands of special environmental significance will be protected, NRCS may contribute up to 75 percent of the fair market value of the agricultural land easement.





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ACEP – Wetland Reserve Easement

provides habitat for migratory waterfowl and other wetland dependent wildlife, including threatened and endangered species; improves water quality by filtering sediments and chemicals; reduces flooding; recharges groundwater; protects biological diversity; provides resilience to climate change; and provides opportunities for educational, scientific and limited recreational activities.

Eligible Land: privately held farmed or converted wetlands that were previously degraded due to agricultural uses and can be successfully and cost-effectively restored

Natural Resources Conservation Service







Wetland Reserve enrollment options include:

•Permanent Easements – Permanent easements are conservation easements in perpetuity. NRCS pays 100 percent of the easement value for the purchase of the easement. Additionally, NRCS pays between 75 to 100 percent of the restoration costs.

•**30-year Easements** – 30-year easements expire after 30 years. Under 30-year easements, NRCS pays 50 to 75 percent of the easement value for the purchase of the easement. Additionally, NRCS pays between 50 to 75 percent of the restoration costs.

•Term Easements - Term easements are easements that are for the maximum duration allowed under applicable State laws. NRCS pays 50 to 75 percent of the easement value for the purchase of the term easement. Additionally, NRCS pays between 50 to 75 percent of the restoration costs.

•30-year Contracts – 30-year contracts are only available to enroll acreage owned by Indian tribes and program payment rates are commensurate with 30-year easements.

For all Wetland Reserve Easements options, NRCS pays all costs associated with recording the easement in the local land records office, including recording fees, charges for abstracts, survey and appraisal fees and title insurance.



Thank You!

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"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD)."





What Resources are Available to Help with Flooding? – Farm Service Agency

FARM PRODUCTION AND CONSERVATION FSA | NRCS | RMA | Business Center

Farm Service Agency (FSA)

- Administer programs authorized by the Farm Bill, including disaster assistance programs
- Ad-hoc disaster assistance programs passed by Congress
- Programs mainly for agricultural producers, but assistance may also be available for landowners
- County Committee elected farmer advisory board that make informed decisions and act on applications submitted at the County Office



| Program | Purpose |
|---|--|
| Emergency Conservation Program (ECP) | Emergency funding & technical assistance to farmers to rehabilitate farmland and conservation structures damaged by natural disasters |
| Emergency Assistance for Livestock, Honeybees & Farm-raised Fish Program (ELAP) | Provides financial assistance to eligible livestock, honeybee, or farm-raised fish producers for losses due to certain adverse weather events or loss conditions |
| Livestock Indemnity Program (LIP) | Provides benefits to eligible livestock owners for livestock deaths caused by eligible loss conditions |
| Emergency Forest Restoration Program (EFRP) | Provides payments to eligible owners of nonindustrial private forest land to carry out emergency measures to restore land damaged by a natural disaster |
| <u>Tree Assistance Program (TAP)</u> | Provides financial assistance to eligible producers to replant or rehabilitate eligible trees, bushes, and vines lost by natural disasters. |



Disaster Assistance Programs – Flood Related

| Program | Purpose |
|---|---|
| <u>Non-insured Crop Disaster Assistance</u> <u>Program (NAP)</u> | Provides financial assistance to producers of non- insurable crops to protect against natural disasters that result in lower yields or crop losses, or prevents crop planting. *NAP Insurance must be purchased by applicable crop deadline. |
| Emergency Loans | Loans to help producers recover from production and physical losses due to natural disasters. <i>*Must have disaster designation to be available for producers.</i> |

Eligible Producer

Farm Service Agency

 Owner, landlord, or tenant of a farm and the farm is used to annually produce commercial crops or livestock. The producer must contribute part of the practice cost to be eligible for ECP benefits.

Cost-share Payments

- 75% of the cost to implement approved restoration practices
- 90% for producers that certify as limited resource, socially-disadvantaged or beginning farmers with FSA
- Available as advance payment of up to 25% of expected cost-share
- Limited to \$500,000 per person per disaster

- Practices eligible for flood events:
 - EC1 Removing debris from farmland and restoring the land to agricultural use
 - EC2 Grading, shaping or leveling land and returning the land to agricultural use
 - EC3 Restoring fences for agricultural purposes
 - EC4 Restoring conservation structures, such as drainage systems, wells, pipelines, spring developments, sod waterways, etc.

ECP Process:

- Disaster event occurs
- FSA County Office is notified of disaster event and conducts damage assessment to determine extent of damage
- Damage must be so costly that Federal assistance (taxpayer dollars) is or will be required to return the land to productive agricultural use – minimum \$1,000 damage per participant
- FSA County Committee submits ECP implementation request and damage assessment to FSA State Office
- FSA State Office concurs with ECP implementation
- County Committee announces ECP signup period 30-60 calendar days as determined by the Committee

- Producer submits ECP application
 - Producer cannot begin any work that involves ground disturbance (digging/excavation, etc.) practices until environmental evaluation is completed by FSA – minimum of 30 days for SHPO/THPO consultations
- County Office performs site evaluation photographs, GPS, etc.
- ECP application is approved by County Committee and producer can proceed with practice implementation with assistance from NRCS
- Producer completes practices and submits invoices to County Office
- Producer signs ECP application for payment and County Office approves payment

Additional Information:

- Payments are based on payment scenarios (flat-rates) from NRCS
 - Payments are not based on invoice costs submitted by the producer
- Multiple practices cannot be applied to the same ground
- EC1 & EC3 practice payments may not exceed 50% of the ag market value of the affected land as set by the County Committee.



Emergency Forest Restoration Program (EFRP)

- Similar signup process to ECP
- Land must have existing tree cover (or had tree cover immediately before the natural disaster occurred and is suitable for planting trees) and be owned by any nonindustrial private individual, group, association, corporation or other private legal entity.
 - Greater than two acres in size to qualify for assistance
- Cost share payments are up to 75% of costs submitted by applicant and limited to \$500,000 per person per disaster
 - Payment rates are established by FSA State Committee



Emergency Forest Restoration Program (EFRP)

- Remove debris then implement practice
 - EF1 Hardwood Forest Restoration
 - EF2 Softwood Forest Restoration
 - EF3 Mixed Forest Restoration

NYS DEC Foresters are often used to write the reforestation plans

Emergency Assistance for Livestock, Honeybee, and Farm-raised Fish Program (ELAP)

 Assistance for honeybee colony, hive, and feed losses due to floods, and livestock feed losses due to floods

Livestock Indemnity Program (LIP)

Assistance for livestock losses due to floods

Tree Assistance Program (TAP)

Assistance for tree, bush, or vine losses due to floods

Other FSA Programs – available to landowners

- <u>Conservation Reserve Program (CRP)</u>
 <u>Conservation Reserve Enhancement</u>
 <u>Program (CREP)</u>
 - FSA provides participants with annual rental payments and cost-share assistance.
 - Participants implement conservation practices for 10-to-15-year contracts
 - CREP focus on water quality buffers, grass waterways, etc. – additional incentives
- <u>SAFE CRP</u> available in Seneca County focus on grassland bird habitat





Contact Information

- Farm Service Agency
 - 2041 U.S. Route 20, Ste. 1, Seneca Falls, NY 13148
 - **315-568-6346, ext. 2**
 - CED John Mietz
 - John.mietz@usda.gov
 - FLM Laura Scondras
 - Laura.Scondras@usda.gov
 - FSA County Committee Representative
 - LAA #1 (Ovid, Lodi & Covert) Lisa Compton of Compton Farms

FLOOD MITIGATION RESOURCE CONTACTS

Natural Resources Conservation Service, USDA within Seneca County 2041 US Route 20, Seneca Falls, NY 13148 Assistance available: Technical & Financial assistance for Best Management Practice implementation on private agricultural and forest land.

Phone: 315-568-6346, ext. 3 Email: <u>daniel.tighe@usda.gov</u> or jessica.burry@usda.gov Website: <u>https://www.nrcs.usda.gov/</u>

Farm Service Agency, USDA within Seneca County 2041 US Route 20, Seneca Falls, NY 13148 Contact Person: John Mietz Phone: 315-568-6346, ext. 2 Email: john.mietz@usda.gov Websites: https://www.fsa.usda.gov/ **Other Applicable Websites:** Emergency Conservation Program (ECP) https://www.fsa.usda.gov/programs-and-services/conservation-programs/emergencyconservation/index Livestock Indemnity Program (LIP) https://www.fsa.usda.gov/programs-and-services/disaster-assistanceprogram/livestock-indemnity/index Emergency Assistance for Livestock, Honeybees, and Farm-raised Fish Program (ELAP) https://www.fsa.usda.gov/programs-and-services/disaster-assistanceprogram/emergency-assist-for-livestock-honey-bees-fish/index Emergency Forest Restoration Program (EFRP) https://www.fsa.usda.gov/programs-and-services/disaster-assistanceprogram/emergency-forest-restoration/index **Emergency Loans** https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/emergency-

farm-loans/index

US Army Corps of Engineers – Auburn Field Office 7413 County House Road, Auburn, NY 13021 Assistance available: Stream and Lake permitting. Phone: 315-255-8090 Website: https://www.usace.army.mil/

Seneca County Cornell Cooperative Extension Assistance available: climate smart communities, education events Phone: 315-539-9251 Email: seneca@cornell.edu Website: www.senecacountycce.org Other Applicable Websites: Climate Smart Farming https://climatesmartfarming.org/ Northeast Regional Climate Center https://www.nrcc.cornell.edu/

Seneca County Soil and Water Conservation District 2041 US Route 20, Seneca Falls, NY 13148 Assistance available: Technical assistance & recommendations for residents, landowners, farmers and municipalities regarding drainage issues, flooding, erosion, Best Management Practice implementation with potential grant funding. Phone: 315-568-4366 Email: senecacountyswcd@gmail.com Website: www.senecacountyswcd.org

NYS Department of Environmental Conservation (Region 8) 6247 East Avon Lima Road, Avon, NY 14414 Assistance available: Stream and Lake permitting. Phone: 585-226-2466 Website: https://dec.ny.gov/

Other Local Contacts:

Lodi Town Office – 607-582-6238 Lodi Town Highway – 607-582-6888 County Highway Department – 315-549-8454 County Emergency Management – 315-539-1756 County Real Property Tax Services – 315-539-1720