

**Agricultural
Environmental
Management**



Round 29 Agricultural Nonpoint Source Abatement and Control Program Project Descriptions

All projects support the New York State Agricultural Environmental Management (AEM) Program by funding the implementation of agricultural Best Management Practices (BMPs) to protect natural resources while maintaining the economic viability of New York State's diverse agricultural community.

Hudson Valley

\$248,211 was awarded to the Orange County Soil and Water Conservation District to work with four farms in the Walkkill River Watershed. This project will:

- Restrict livestock access to streams to reduce nutrient and sediment loading into the watercourse
- Address farmstead water management concerns reducing nutrient runoff and increasing resiliency to extreme precipitation events

Southern Tier

\$86,720 was awarded to the Broome County SWCD to work with one farm in the Susquehanna River Watershed. This project will:

- Contribute to the nutrient load reduction goals established in the Chesapeake Bay Total Maximum Daily Load
- Restrict livestock access to a stream and establish 4 acres of forested buffer that will reduce runoff and restore ecological function to the stream
- Establish 29 acres of rotational grazing to promote soil health, increase quality of pasture grasses, reduce nutrient runoff and improve resiliency to climate change driven extreme precipitation events

\$1,632,210 was awarded to the Chenango County Soil and Water Conservation District to work with five farms in the Upper Susquehanna River Watershed. This project will:

- Contribute to the nutrient load reduction goals established in the Chesapeake Bay Total Maximum Daily Load
- Promote the 4 Rs of Nutrient Management: application of the right nutrients, in the right quantity, on the right field, at the right time to optimize plant and soil health while reducing nutrient runoff into nearby watercourses
- Implement agricultural waste storage systems designed to enhance the farms' ability to manage nutrients to reduce runoff and promote soil health

\$662,108 was awarded to the Otsego County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Contribute to the nutrient load reduction goals established in the Chesapeake Bay Total Maximum Daily Load
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Plant a .5-acre forested stream buffer system to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

North Country

\$387,655 was awarded to the Franklin County Soil and Water Conservation District to work with 6 farms in the Salmon, Chateaugay, and St. Regis River Watersheds. This project will:

- Plant 3,195 acres of cover crops to reduce erosion, sedimentation and nutrient loading in the watersheds
- Improve soil health by building organic matter, increasing nutrient uptake, and the capacity for the soil to absorb and hold water
- Increase the farms' resiliency to climate change driven extreme weather conditions

\$457,227 was awarded to the Lewis County Soil and Water Conservation District to work with 3 farms in the Black River Watershed. This project will:

- Plant 6,263 acres of cover crops to reduce erosion, sedimentation and nutrient loading in the watershed
- Improve soil health by building organic matter, increasing nutrient uptake, and the capacity for the soil to absorb and hold water
- Increase the farms' resiliency to climate change driven extreme weather conditions

Mohawk Valley

\$193,239 was awarded to the Herkimer County Soil and Water Conservation District to work with one farm in the Upper Susquehanna River Watershed. This project will:

- Contribute to the nutrient load reduction goals established in the Chesapeake Bay Total Maximum Daily Load
- Implement livestock heavy use area runoff management systems which will separate clean water and prevent nutrient laden runoff from reaching surface water and improve the farm's perennial pasture system
- Implement practices that will allow the farm to effectively manage manure nutrients to protect water quality and reduce greenhouse gas emissions

\$444,362 was awarded to the Herkimer County Soil and Water Conservation District to work with one farm in the Upper Susquehanna River Watershed. This project will:

- Contribute to the nutrient load reduction goals established in the Chesapeake Bay Total Maximum Daily Load
- Enhance nutrient management practices to ensure efficient uptake of nutrients and limit runoff potential
- Support existing grazing practices to reduce erosion and facilitate access to healthy pastures
- Contribute towards the goals and objectives of the County AEM Strategic Plan, Water Quality Coordinating Committee goals, and Upper Susquehanna Coalition's objectives

\$528,765 was awarded to the Schoharie County Soil and Water Conservation District to work with one farm in the Mohawk River Watershed. This project will:

- Facilitate a comprehensive natural resource management approach through the implementation of multiple best management practice systems
- Establish a roughly 1-acre vegetative buffer along a stream to filter sediment and nutrients, increase biodiversity and habitat and resiliency to climate change driven extreme weather
- Assist in meeting the goals and objectives written in the Mohawk River Watershed Management Plan

Central New York

\$302,809 was awarded to the Cayuga County Soil and Water Conservation District to work with one farm in the Lake Ontario Watershed. This project will:

- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Plant 900 acres of cover crops to reduce erosion, sedimentation and nutrient loading in the watersheds, while increasing soil health
- Establish a 1-acre stream buffer to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$310,947 was awarded to the Cayuga County Soil and Water Conservation District to work with one farm in the Cayuga Lake Watershed. This project will:

- Promote optimal nutrient uptake and retention of manure nutrients and reduce greenhouse gas emissions from road traffic
- Encourage efficient wash water management to reduce access water entering the waste storage
- Establish a 1.3-acre stream buffer to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$1,165,886 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load (TMDL) and reduce potential pollution into a nearby aquifer to protect drinking water
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Plant a 3.5-acre forested stream buffer system to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$294,716 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load (TMDL)
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Establish a 1.2-acre forested stream buffer to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$666,149 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load (TMDL) and reduce potential pollution into a nearby aquifer to protect drinking water
- Implement a silage leachate control system designed to contain pollutants leaching from the farm's feed storage areas to minimize polluted runoff in the watershed
- Establish a 1.8-acre forested stream buffer to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$211,382 was awarded to the Cortland County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load (TMDL)
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Construct a roofed barnyard area to manage and control water and reduce nutrient laden runoff from the farmstead. This Best Management Practice System (BMP) will provide enhanced protection from climate change driven extreme precipitation events.

\$600,095 was awarded to the Madison County Soil and Water Conservation District to work with two farms in the Susquehanna River Watershed. This project will:

- Address high priority watershed projects in the Susquehanna River, which ultimately flows into the Chesapeake Bay
- Assist in meeting nutrient load reductions for the Chesapeake Bay Total Maximum Daily Load (TMDL)
- Remove livestock access to a stream and establish 18-acres of vegetative and 2 acres of forested stream buffer to further reduce nutrient runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather
- Enhance nutrient management options for the farms to reduce nutrient runoff and promote soil health

\$930,845 was awarded to the Madison County Soil and Water Conservation District to work with one farm in the Susquehanna River Watershed. This project will:

- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Construct wetland cells and a vegetated treatment area to properly manage leachate from a silage storage area
- Exclude livestock from a surface water resource and implement 1.5 acres of riparian vegetative buffer to further reduce nutrient runoff into nearby waterways, increase and resiliency to climate change driven extreme weather
- Plant 300 acres of cover crop to promote positive soil health benefits

\$259,785 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Skaneateles Lake Watershed. This project will:

- Assist in protecting a drinking water source for the city of Syracuse
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health

\$56,940 was awarded to the Onondaga County Soil and Water Conservation District to work with two farms in the Skaneateles Lake Watershed. This project will:

- Assist in protecting a drinking water source for the city of Syracuse
- Restrict livestock access to streams to reduce nutrient loading and stabilize and protect the stream
- Establish rotational grazing on both farms to promote soil health, increase quality of pasture grasses, reduce nutrient runoff, increase rainwater infiltration capacity of the pastures, thereby increasing resiliency to climate extreme precipitation events

\$490,634 was awarded to the Onondaga County Soil and Water Conservation District to work with 10 farms in the Otisco Lake Watershed. This project will:

- Plant over 6,345 acres of cover crops to improve reduce erosion and nutrient runoff
- Improve soil health by building organic matter, increasing nutrient uptake, and the capacity for the soil to absorb and hold water
- Help the farms to be more resilient to climate change driven extreme weather conditions

\$258,748 was awarded to the Onondaga County Soil and Water Conservation District to work with one farm in the Skaneateles Lake Watershed. This project will:

- Support the goals written in the Harmful Algal Bloom Action Plan for Skaneateles Lake and protect the drinking water source for the city of Syracuse
- Protect groundwater sources from potential pollutants
- Reduce pathogens, sediment, and nutrients into surrounding watersheds

Finger Lakes

\$541,030 was awarded to the Genesee County Soil and Water Conservation District to work with one farm in the Lower Genesee River Watershed. This project will:

- Enhance the farm's capacity to manage runoff from the feed storage area and prevent leachate from contaminating water resources
- Promote the sustainable use of recycled water and nutrients through irrigation water management
- Build resiliency to extreme weather events into the farm's operation by designing practices to withstand 100-year storm events

\$302,000 was awarded to the Livingston County Soil and Water Conservation District to work with five farms in the Genesee River Watershed. This project will:

- Implement Water and Sediment Control Basins to manage storm flows, control runoff and erosion
- Reduce signification sediment loss within the Genesee River Basin
- Increase the farms' resiliency to climate change driven extreme precipitation

\$227,376 was awarded to the Ontario County Soil and Water Conservation District to work with one farm in the Canandaigua Lake Watershed. This project will:

- Focus on reducing nutrient runoff to protect water quality in a public drinking water supply.
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Address priority concerns identified in the Canandaigua Lake Nine Element Watershed Plan

\$140,620 was awarded to the Orleans County Soil and Water Conservation District to work with six farms in the Lake Ontario – Oak Orchard Watershed. This project will:

- Plant over 1,440 acres of cover crops to improve reduce erosion and nutrient runoff
- Improve soil health by building organic matter, increasing nutrient uptake, and the capacity for the soil to absorb and hold water
- Increase the farms' resiliency to climate change driven extreme weather conditions

\$695,412 was awarded to the Wayne County Soil and Water Conservation District to work with one farm in the Lake Ontario – Sodus Creek Watersheds. This project will:

- Address comprehensive natural resource management to improve nutrient management, soil health, and climate resiliency
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Promote the 4 Rs of Nutrient Management: application of the right nutrients, in the right quantity, on the right field, at the right time to optimize plant and soil health while reducing nutrient runoff into nearby watercourses

\$56,729 was awarded to the Wayne County Soil and Water Conservation District to work with one farm in the Lake Ontario Watershed. This project will:

- Construct a specialized facility designed to safely handle, mix and load pesticides for use with the farm's pest management plan
- Implement a conservation planting plan to promote pollinator habitat
- Establish a .5-acre forested stream buffer to further reduce runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$39,226 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the Genesee River Watershed. This project will:

- Address a high priority watershed to reduce the potential impacts of agricultural non-point source pollution on sensitive streams and ground water resources
- Restore a vegetate treatment area to effectively manage leachate from a feed storage

\$361,432 was awarded to the Wyoming County Soil and Water Conservation District to work with one farm in the East Koy Creek Watershed. This project will:

- Provide for more effective and efficient land application of nutrients to reduce the risk of nutrient runoff
- Implement agricultural waste storage systems designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Establish a .5-acre vegetative stream buffer to further reduce runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather in a state classified trout stream

\$505,770 was awarded to the Yates County Soil and Water Conservation District to work with 11 farms in the Seneca Lake Watershed. This project will:

- Implement a diverse set of Best Management Practice (BMP) Systems to benefit water quality in Seneca Lake
- Projects include integrated pest management on vineyards, erosion and sediment control projects on croplands, farmstead water management practices, and stream corridor management practices including, stream buffers
- This project addresses the goals of the state approved 9 Element Watershed Management Plan for Seneca Lake, critical to the long-term protection of Seneca Lake and reducing conditions favorable to Harmful Algal Blooms
- These projects will assist all participating farms to be more resilient to climate change driven extreme weather

Western New York

\$241,305 was awarded to the Allegany County Soil and Water Conservation District to work with two farms in the Canisteo River Watershed. This project will:

- Implement agricultural waste storage systems, including a bedded pack dry manure storage, designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health
- Restrict livestock access and stabilize 2,500 feet of streambank to prevent soil erosion
- Establish a 2-acre forested stream buffer to further reduce runoff into nearby waterways, increase biodiversity and habitat and resiliency to climate change driven extreme weather

\$291,271 was awarded to the Chautauqua County Soil and Water Conservation District to work with three farms in the Lake Erie Watershed. This project will:

- Implement best management practice systems to reduce the risk of surface and ground water contamination
- Facilitate efficient management and application of agricultural chemicals to reduce runoff potential
- Address a high priority watershed to reduce the potential impacts of agricultural non-point source pollution on sensitive streams and ground water resources

\$232,300 was awarded to the Erie County Soil and Water Conservation District to work with one farm in the Buffalo - Eighteenmile Watershed. This project will:

- Restrict livestock from watercourses and expand prescribed grazing acreage to achieve 100% of forage demand for all animals on the farm
- Implement animal trails and an alternative water supply system to facilitate prescribed rotational grazing and exclude livestock from surface water sources
- Implement an agricultural waste storage system designed to enhance the farm's ability to manage nutrients to reduce runoff and promote soil health