

**NYS Department of Agriculture and Markets
Climate Resilient Farming Round 6 - Projects Selected for Award 2022**

<i>Track</i>	<i>Organization</i>	<i>Project Description</i>	<i>State Amount Awarded</i>	<i>Total Project Cost</i>	<i>GHG Reduction Estimation (MTCO2 eq/yr.)</i>
<i>Track 1: Manure Storage Cover and Capture Projects: reduce methane emissions from manure storages and increase resiliency to major precipitation events.</i>					
1	Clinton SWCD	\$620,580 was awarded to Clinton County Soil and Water Conservation District to work with a dairy farm to install a manure storage cover and flare system. This system will reduce GHG emissions by capturing approximately 15,867 MTCO2eq annually as a component of a larger Renewable Natural Gas (RNG) Project. Methane has 84 times more global warming potential in the atmosphere than CO2 over a 20 year timespan. The renewable natural gas (RNG) will be transferred to a natural gas distribution line. The manure storage cover will also keep clean rainwater from entering the storage resulting in added manure storage capacity and a significant water quality benefit.	\$ 620,580.00	\$ 900,205.00	15,867.0
1	Livingston SWCD	\$461,310 was awarded to Livingston County Soil and Water Conservation District to work with a dairy farm to install a manure storage cover and flare system. This system will allow the farm to reduce GHG emissions by capturing approximately 15,549 MTCO2eq annually. Methane has 84 times more global warming potential in the atmosphere than CO2 over a 20 year timespan. The manure storage cover will also keep clean rainwater from entering the storage resulting in added manure storage capacity and a significant water quality benefit.	\$ 461,310.00	\$ 613,300.00	15,549.0
1	Ontario SWCD	\$421,320 was awarded to Ontario County Soil and Water Conservation District to work with a dairy farm to install a manure storage cover and flare system. This system will be part of a biogas recycling and destruction project. The farms biogas digester system will process and recycle renewable energy back into the commercial natural gas pipeline system. The complete system will reduce GHG emissions by capturing approximately 12,603 MTCO2eq annually. This system will help the farm to process all of their animal waste to fully mitigate the methane emissions that are created in their manure storage system. The farm will also collect rainwater off the cover for irrigation purposes, increasing the farms resiliency.	\$ 421,320.00	\$ 859,302.00	12,603.0

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1	St. Lawrence SWCD	\$426,044 was awarded to St. Lawrence County Soil and Water Conservation District to work with a dairy farm to install a manure storage cover and flare system. This system will cover and capture methane from digestate that is produced from an existing digester system, allowing the farm to capture approximately 15,672 of MTCO2eq annually and give the farm the ability to inject renewable energy into the natural gas distribution system. The manure storage cover will also keep clean rainwater from entering the storage resulting in added manure storage capacity and a significant water quality benefit. Collected rainwater is used for cleaning the milk center and will also be used in the sprinkler system to keep cows cool in the summer months.	\$ 426,044.00	\$ 847,364.00	15,672.0
<i>Track 2: Riparian, Floodplain, and Upland Water Management: improved water management increases resiliency to drought and flood conditions as a result of climate change.</i>					
2	Cortland SWCD	\$130,855 was awarded to Cortland County Soil and Water Conservation District to implement a stream corridor rehabilitation plan along the East Branch of the Owego Creek. Best management practices will include 1,080 ft. of streambank and shoreline protection using stream barbs, and planting a 1.5 acre riparian forest buffer. The project will increase carbon sequestration and increase resiliency by stabilizing eroding banks, improving floodplain connectivity and reducing CO2 emissions.	\$ 130,855.00	\$ 168,420.00	30.00
2	Cortland SWCD	\$181,022 was awarded to Cortland County Soil and Water Conservation District to install multiple streambank and shoreline protection BMP's in order to control erosion and flood waters that are effecting both the farm's cropland and the community. A 1.5 acre riparian forest buffer will be planted to increase carbon sequestration and stabilize eroding banks, reducing crop loss and improving floodplain connectivity.	\$ 181,022.00	\$ 234,760.00	30.00
2	Essex SWCD	\$632,000 was awarded to Essex County Soil and Water Conservation District to implement irrigation water and conservation management on four farms to improve resiliency during droughts and reduce stormwater discharge during significant storm events. Perennial vegetation and trees will be planted to extend the grazing season and increase water retention. This project will aid in the reduction of non-point source pollution, erosion, aquatic system flooding, and overburden of municipal infrastructure.	\$ 632,000.00	\$ 826,077.50	170.00

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2	Livingston SWCD	\$210,000 was awarded to Livingston County Soil and Water Conservation District to address severe erosion and flooding impacts taking place on 120 acres of cropland. By implementing 12 water and sediment control basins to be strategically placed to contain 250,000 cubic feet of stormwater runoff, enough storage capacity to contain runoff from a 100 year storm event. This project will ensure the long term function, stability, and ultimate protection of critical downstream wastewater infrastructure.	\$210,000.00	\$292,720.00	46.00
2	Montgomery SWCD	\$470,410 was awarded to Montgomery County Soil and Water Conservation District to work with a farm with over 500 acres of cropland and hay land to become more resilient to drought. Excess precipitation will be stored in an irrigation reservoir and improvements will be made to the center pivot irrigation system. An existing farm pond will be expanded for additional water storage. Soil moisture sensors and meters will be used to gather data for the irrigation scheduling plan. A riparian forest buffer will be established for stream protection along the crop field.	\$ 470,410.00	\$ 621,640.00	12.00
2	Tioga SWCD	\$416,657 was awarded to Tioga County Soil and Water Conservation District to work with one farm to install a stream corridor and shoreline management system. A 12-acre riparian forest buffer will be implemented to reduce erosion and filter runoff. The project will address on-farm resource concerns and display how working with the landscape can yield just as successful farming production with reduced long-term disruptions caused by a changing climate. The project will also showcase climate resiliency and provide an educational experience accessible to the public.	\$ 416,657.00	\$ 520,835.00	96.00
2	Tioga SWCD	\$117,917 was awarded to Tioga County Soil and Water Conservation District to work with one farm on a shoreline management system that will positively impact two other farms in the area. High flow events have contributed significantly to a large scale gully on the farm which will be addressed through this project. Erosion from the gully is adversely impacting two other farms in the area. This project will address the erosion and create storm water retention capacity as a long term solution to make these farms climate resilient in the face of changing weather patterns.	\$ 117,917.00	\$ 147,404.00	9.00

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2	Washington SWCD	\$216,200 was awarded to Washington County Soil and Water Conservation District to work with a farm to install erosion control systems. These systems will reduce the amount of water and sediment leaving the property reducing erosion improving water surrounding. In addition to erosion mitigation strategies, the project will also convert 13 acres of annual cropland to perennial contour orchard, providing the soil structure with a diverse root system and helping to sequester carbon.	\$ 216,200.00	\$ 288,520.00	218.00
2	Washington SWCD	\$177,000 was awarded to Washington County Soil and Water Conservation District to implement an erosion control system and prescribed rotational grazing system on a primarily grass fed beef operation. Through this project, the farm will be able to capture and use the water on their property and create stabilized access to pasture allowing the farm to rotate livestock properly. Improved perennial pasture will sequester and store carbon and water capture will reduce the amount of runoff into a nearby wetland.	\$ 177,000.00	\$ 239,350.00	3.60
2	Yates SWCD	\$98,530 was awarded to Yates County Soil and Water Conservation District to work with a farm to protect 50 acres of farmland for row and high-value vegetable crop production by implementing erosion control management. This system will include diversion ditches, grass waterways, underground outlets, conversion of 1.8 acres of farmland to permanent grass and cover cropping to protect from extreme weather events. These best management practice systems will increase resiliency and create carbon sinks.	\$ 98,530.00	\$ 134,410.00	5.00
2	Yates SWCD	\$287,020 was awarded to Yates County Soil and Water Conservation District to work with one farm to stabilize 1,500 feet of heavily eroding stream through the installation of large stone rip rap and repairs to the riparian area. This project will prevent large amounts of debris and gravel that are deposited in the farm's vineyard during extreme weather events and cause road closures and on-farm damage increasing the farm's climate resiliency.	\$287,020.00	\$354,470.00	16.00

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Track 3: Healthy Soils NY: Soil Health practices sequester carbon and increase resiliency to the impacts of climate change.					
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3	Allegany SWCD	\$34,062 was awarded to Allegany County Soil and Water Conservation District to work with one farm to convert 75 acres per year for 3 years to a no till system and cover crop 150 acres per year for 3 years. The farm currently farms soil that is highly susceptible to drought and prone to nitrogen leaching. By implementing no till and cover crops, the farm will increase soil organic matter thereby increasing drought resiliency and decreasing nitrogen leaching.	\$ 34,062.50	\$ 43,800.00	129.00
3	Cayuga SWCD	\$811,920 was awarded to Cayuga County Soil and Water Conservation District to implement 5,200 acres of cover crops and 16,785 acres of residue and reduced tillage/no-till management on nine farms. These practices will decrease soil erosion, reduce runoff, enhance soil health, and increase soil organic matter. Additionally, by implementing reduced tillage/no-tillage management, the farms will decrease fuel consumption further reducing GHG emissions.	\$ 811,920.00	\$ 1,005,337.50	2971.00
3	Cortland SWCD	\$180,260 was awarded to Cortland County Soil and Water Conservation District to implement a 93 acre prescribed rotational grazing system. The project will include a seven acre riparian forest buffer, 25,000 feet of fencing, 6,000 feet of livestock water pipeline, and 75 feet of road access improvement. Implementation of the seven acre forested buffer will be excluded from livestock and will protect over 1,700 feet of stream while also sequestering carbon. Livestock water pipeline, access road improvement, and fencing will allow for rotational grazing which will improve forage quality, and soil coverage density further reducing soil erosion and increasing nutrient and water uptake.	\$ 180,260.00	\$ 233,010.00	116.00
3	Erie SWCD	\$256,923 was awarded to Erie County Soil and Water Conservation District to purchase manure injectors for three farms to improve nutrient management and methane emission reduction. The project will result in 3,672 acres of cropland injected over a 3 year period aiding carbon sequestration, reduction of greenhouse gasses, in addition to many other water quality, climate, and soil health benefits.	\$ 256,923.00	\$ 344,588.00	1338.00
3	Delaware SWCD	\$159,160 was awarded to the Delaware County Soil and Water Conservation District to implement 1,242 acres of cover crops on three farms for three years. The farms are located in floodplains with many of their crop fields along both the East and West Branch of the Delaware River. Cover cropping will increase ground cover and bolster soil health resulting in reduced erosion and nutrient and sediment runoff.	\$ 159,160.00	\$ 218,680.00	101.00

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3	Essex SWCD	\$35,810 was awarded to the Essex County Soil and Water Conservation District to plant cover crops on one farm over the course of three years totaling 120 acres. The cover crops implemented on this farm will reduce erosion and sediment and nutrient runoff into the Lake Champlain watershed which has been designated as a priority one watershed. Cover crops will also aid this organic farm in non-chemical weed suppression.	\$ 35,810.00	\$ 47,507.00	14.00
3	Essex SWCD	\$21,714 was awarded to the Essex County Soil and Water Conservation District to implement 27 acres of cover crops on one farm in addition to the purchase of a specialized seeder for cover crops. Implementing cover crops will increase soil organic matter, nutrient cycling, soil nitrogen availability, and water holding capacity of the soil in addition to reducing compaction and erosion and promote weed suppression. The farm is in a highly visible area and by purchasing a seeder, the farmer will be able to promote the practice to other farmers in the area. The farmer is also willing to hold educational events to demonstrate the effectiveness of cover crops.	\$ 21,714.00	\$ 29,187.00	6.00
3	Fulton SWCD	\$132,986 was awarded to the Fulton County Soil and Water Conservation District to work with 4 farms to implement cover crops on 400 acres and residue and tillage management on 300 acres. This project will enable producers to reduce their dependence on commercial fertilizer and fossil fuels resulting in reduced GHG emissions. The project will also reduce runoff and soil erosion protecting the soil.	\$ 132,986.00	\$ 186,027.00	835.75
3	Genesee SWCD	\$109,010 was awarded to Genesee County Soil and Water Conservation District to implement a 3-year, 1,286 acre cover crop plan on one farm. No-till cover cropping will occur after crop and wheat harvest to reduce erosion on soils prone to excessive wind erosion. The cover crops will also increase soil organic matter and soil nutrients while mitigating compaction and bolstering soil health all contributing to reduced fertilizer use and thus reduced GHG emissions.	\$ 109,010.00	\$ 143,987.38	303.00
3	Genesee SWCD	\$219,354 was awarded to Genesee County Soil and Water Conservation District to implement 3-year, 2,923 acre cover crop plans on 3 farms. The project will further increase carbon sequestration on farms that already utilize reduced tillage methods to reduce fuel usage and GHG emissions. In addition to increased carbon sequestration, cover crops will decrease nutrient and sediment runoff in critical watersheds of the Genesee County.	\$ 219,354.00	\$ 290,460.59	378.00

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3	Madison SWCD	\$98,800 was awarded to Madison County Soil and Water Conservation District to inter-seed cover crops into organically grown corn, soybeans, and small grains. The topography in the area is highly susceptible to agricultural runoff and erosion, introducing cover crops to the no-till operation will further reduce erosion and runoff. By inter-seeding, the cover crop will already be established at the time of the fall harvest, ensuring erosion and runoff control through the winter.	\$ 98,800.00	\$ 128,400.00	3.00
3	Niagara SWCD	\$135,360 was awarded to Niagara County Soil and Water Conservation District to implement 1,500 acres of cover crops on four farms in the Tonawanda Creek watershed. The cover crops will improve soil health and improve the resiliency of these farms while also sequestering carbon and protecting the watershed. The cover crops will also add organic matter to the clay soils to increase water holding capacity and infiltration to reduce runoff during storm events.	\$ 135,360.00	\$ 177,560.00	128.00
3	Onondaga SWCD	\$178,550 was awarded to Onondaga County Soil and Water Conservation District to implement 2,395 acres of cover crops on 8 farms. Cover cropping will reduce soil erosion, promote soil health, increase organic matter, and improve water infiltration increasing the farm's resiliency to climate change. This project will also contribute to the reduction of nutrient and sediment runoff into the Skaneateles watershed.	\$ 178,550.00	\$ 251,240.00	100.00
3	Onondaga SWCD	\$16,802 was awarded to the Onondaga County Soil and Water Conservation District to implement a 34 acre prescribed rotational grazing system. Constructing 2,500 feet of fencing allowing the farmer to continue grazing their herd instead of supplementing with hay. By grazing rotationally, the farm will contribute to soil health, soil carbon sequestration, increased water holding capacity of the soil, reduced erosion, and protect soils during periods of drought and storm.	\$ 16,802.00	\$ 23,751.00	11.00
3	Orange SWCD	\$178,595 was awarded to Orange County Soil and Water Conservation District to implement cover cropping over three years on five farms totaling 1,200 acres. Two additional farms will produce their own compost which will be used as a soil carbon amendment to bolster soil health and carbon sequestration. The District will also utilize funding from this grant to purchase a no-till drill and roller/ crimper to be made available to farmers and will increase both the acreage of cover crops implemented as well as the acreage of row crops planted using no-till or reduced till planting techniques in the county.	\$ 178,595.00	\$ 240,111.25	501.00

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3	Schoharie SWCD	\$219,985 was awarded to Schoharie County Soil and Water Conservation District to install an alley cropping system of harvestable nut trees on one farm with the purpose of implementing silvopasture practices. Silvopasture systems benefit the environment through reduced erosion and sedimentation, improved soil health due to reduced tillage, increases in carbon sequestration due to the addition of trees in a perennial system and reduced fuel usage.	\$ 219,985.00	\$ 298,585.00	1151.00
3	Ulster SWCD	\$129,114 was awarded to Ulster County Soil and Water Conservation District to implement 366.6 acres of cover crops for 3 years in addition to the purchase of a no-till drill to be rented for use by farmers in the county. The District will conduct two educational events for cover crops and no-till planting benefits, as well as outreach for the rental of the no-till drill. Both the cover crops and the no-till drill will improve soil health on these farms and throughout the county.	\$ 129,114.00	\$ 165,565.00	45.00
3	Wayne SWCD	\$58,775 was awarded to Wayne County Soil and Water Conservation District to implement a prescribed grazing system on one farm. The farm will be converting 57 acres from annual cropland to perennial pasture. 14,000 feet of fencing and 600 feet of pipeline will be installed to implement prescribed grazing and silvopasture systems. These practices will reduce fuel consumption, and increase soil carbon sequestration, soil organic matter, and increase climate resiliency.	\$ 58,775.00	\$ 79,424.00	38.00
		TOTALS	\$ 7,844,045.50	\$ 10,711,009.22	68,412.4