

**NYS Department of Agriculture and Markets
Climate Resilient Farming Rounds 1-5**

Round	Track	Organization	Awarded Project Description	Amount Awarded*	GHG Reduction/ Carbon Sequestration Estimation (MTCO2 eq/yr.)*
Track 1 - Waste Storage Cover and Capture Projects: reduce methane emissions from manure storages and increase resiliency to major precipitation.					
5	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will reduce emissions by capturing approximately 240,000 KGs of methane annually. The waste storage cover will exclude 3M gallons of clean rainwater resulting in added capacity and significant water quality benefit.	\$ 448,260.00	20,160.0
5	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will reduce GHG emissions by capturing approximately 279,000 KGs of methane annually. The manure storage cover will also keep clean rainwater from entering the storage resulting in increased manure storage capacity and significant water quality benefit.	\$ 213,220.00	23,436.0
5	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will allow the farm to reduce GHG emissions by capturing approximately 200,000 KGs of methane annually. The manure storage cover will also keep 2.5M gallons of clean rainwater from entering the storage resulting in added manure storage capacity and a significant water quality benefit.	\$ 371,920.00	16,800.0
4	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will be part of a larger project by the farm to repurpose the existing digester to produce Renewable Natural Gas. Installation of the proposed cover system will allow the farm to capture approximately 600,000 KG of methane annually. The cover will also keep 1.4M gallons of clean rainwater from entering the storage resulting in added capacity and providing a significant water quality benefit.	\$ 294,700.00	51,600.0

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4	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will reduce emissions by capturing approximately 1 million KGs of methane annually. 2.7M gallons of rainwater will be excluded from the storage providing a significant water quality benefit.	\$ 408,513.00	80,496.0
4	1	Cayuga SWCD	A dairy farm will install a manure storage cover and flare system. This system will be part of a larger project by the farm to repurpose the existing methane digester to produce Renewable Natural Gas. Installation of the proposed cover system will allow the farm to capture approximately 335,000 KG methane annually. The cover will also keep 2.3M gallons of rainwater from entering the storage resulting in added capacity.	\$ 299,428.00	28,810.0
1	1	Cortland SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce GHG emissions by capturing approximately 196,350 kg methane per year, eliminate up to 1.2M gallons of water from the storage, eliminate approximately 4,640 gallons of fuel used for spreading manure per year, and partner with Cornell University's PRO-DAIRY for monitoring.	\$ 268,350.00	16,886.0
1	1	Erie SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce methane emissions by 114,460 kg, eliminate approximately 3,828 gallons of fuel per year for manure spreading, and eliminate more than 2.2M gallons of precipitation from the storage.	\$ 141,500.00	9,844.0
5	1	Genesee SWCD	A dairy farm will install a manure storage cover and flare system. This system will reduce GHG emissions by capturing approximately 144,000 KG of methane annually. The manure storage cover will also keep 1.2M gallons of clean rainwater from entering the storage resulting in added manure storage capacity and providing a significant water quality benefit.	\$ 218,466.00	12,096.0
1	1	Genesee SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce estimated emissions by 95,200 KG of methane each year, reduce emissions associated with spreading 1.9M gallons of rainwater per year, and reduce the frequency, and amount of manure spread in high priority watersheds.	\$ 176,839.00	8,187.0

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3	1	Herkimer SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce methane emissions from the farm's manure storage, estimated reduction of 218,750 KG per year, eliminate 2.3M gallons of clean rainwater from entering the storage, mitigate water quality concerns especially during major precipitation events, recycle the rainwater/snow melt to be used in the farmstead as a source of clean water, and promote energy savings by avoiding land application of rainwater that would have otherwise mixed with the stored manure.	\$ 432,659.00	18,813.0
5	1	Jefferson SWCD	A dairy farm will improve their manure management system. This system will cover a manure storage on the farm and upgrade an existing flare that will assist the farm in maximizing the reduction of approximately 152,100 KG of methane annually. 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.	\$ 26,175.00	12,776.0
2	1	Schuyler SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce methane emissions from the farm. Eliminate 1.8M gallons of clean rainwater from entering the storage. Promote energy savings by avoiding land application of rainwater that would have otherwise mixed with the stored manure.	\$ 295,200.00	0.0
3	1	Wayne SWCD	A diverse livestock farm will install a manure storage cover and flare. This system will reduce approximately 9,907 KG of methane emissions annually from the farm's manure storage, eliminate 1.2M gallons of clean rainwater from entering the storage, mitigate water quality concerns especially during major precipitation events, and promote energy savings by avoiding land application of rainwater that would have otherwise mixed with the stored manure.	\$ 281,686.00	852.0
1	1	Wayne SWCD	A swine operation will install a manure storage cover and flare. This system will reduce approximately 350 KG of methane each year and reduce emissions associated with spreading 1.2M gallons of rainwater per year. Reduced commercial fertilizer purchases will result from application of slurry manure which has higher ammonia concentrations.	\$ 83,382.00	30.0

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1	1	Wyoming SWCD	A dairy farm will install a manure storage cover and flare. This system will reduce an estimated 152,796 KG of methane each year, reduce emissions associated with spreading 3.5M gallons of rainwater per year, partner with Cornell University's PRO-DAIRY for monitoring, further mitigate for methane through solid-liquid separation, and compliment other existing GHG reducing BMPs.	\$ 429,929.00	13,140
Round	Track	Organization	Awarded Project Description	Amount Awarded*	GHG Reduction/ Carbon Sequestration Estimation (MTCO2 eq/yr.)*
Track 2 - Water Management Systems: riparian, floodplain, and upland water management projects increase resiliency to drought and flood conditions as a result of climate change.					
1	2	Albany SWCD	A farm will implement an erosion control and irrigation water management systems. These systems will install a 580 ft diversion and a 500 ft grassed waterway to control and convey concentrated flows, install a 1.2M gallon irrigation reservoir, and utilize a solar energized pump to irrigate the row crops that will generate measurable GHG emission reduction.	\$ 26,705.00	5.1
4	2	Chautauqua SWCD	A beef farm will construct a riparian forest buffer and exclude livestock from a perennial stream, which is a tributary to Lake Erie. These systems will result in carbon sequestration in the riparian forest buffer and enable the stream in this reach to handle flooding events without the occurrence of excessive bank erosion.	\$ 34,040.00	0.5
5	2	Chenango SWCD	Reforestation on 36 acres of riparian corridor and upland pasture. The establishment of woody plants increases the time of concentration of flood waters from inundating streams, fields, roads, and other facilities downstream within the watershed. The proposed work on one farm creates a three-barrier approach to reduce the long-term impacts of extreme weather by planting trees on steep slopes and implementing a water and sediment control basin in addition to planting the riparian forest buffer.	\$ 175,715.00	565.0

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5	2	Cortland SWCD	A vegetable farm located in the Trout Brook Watershed will implement a stream corridor rehabilitation plan through the installation of .5 acres of riparian forest buffer, removal of 1,000 ft. of berm, and 500 ft. of streambank and shoreline protection. This project is identified as high priority in the Cortland County Multi-Jurisdictional All-Hazard Mitigation Plan due to reoccurring flooding, streambank erosion, and excessive gravel deposits causing severe stream meanders which erode crop field banks. Removal of the field berm will allow the stream to safely reconnect with its floodplain while implementation of the forested buffer will provide carbon sequestration and reduce GHG emissions.	\$ 43,185.00	3.0
5	2	Cortland SWCD	A farm will implement a stream corridor rehabilitation plan on the farm through the installation of 4.7 acres of riparian forest buffer, 3,500 ft of livestock exclusion fencing, and 500 ft of streambank and shoreline protection. To restore a section of Trout Brook stream classified by NYS DEC as a trout spawning stream. The forested buffer will increase carbon sequestration and reduce GHG emissions. Rehabilitation of this section of stream will enhance the farms resiliency and susceptibility to frequent and intense storm events, by stabilizing eroding banks and improving floodplain connectivity.	\$ 75,910.00	26.0
5	2	Cortland SWCD	A farm will implement a 65 acre prescribed rotational grazing system. This system will include a 4 acre riparian forest buffer, fencing, access road improvement, water pipeline, and a stabilized stream crossing. The forested buffer will protect over 1,000 ft of stream and two ponds while acting as a carbon sink providing long-term carbon sequestration. This project will enhance the farms resiliency and susceptibility to climate change from drought, intense storm events, improve water quality, soil health, and reduce CO2 emissions.	\$ 136,395.00	23.0
5	2	Cortland SWCD	A 46 acre NOFA-NY certified organic vegetable farm that is located in the Trout Brook Watershed will implement a stream corridor rehabilitation plan including 2 acres of riparian forest buffer and 1,500 ft. of streambank and shoreline protection. Implementation of the forested buffer will provide carbon sequestration and reduce GHG emissions.	\$ 75,855.00	12.0

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5	2	Erie SWCD	To improve the storm resiliency of a 530 acre watershed that impacts two agricultural operations in the Eden Valley, this project proposes to replace and improve 700 ft of underground pipe, construct grade stabilization structures, reconnect the stream to its historic floodplain, and attenuate storm flows in the wooded area above crop fields. Both farms will implement micro-irrigation systems for the delivery of fertilizer and fungicides to the fields. This will reduce the amount of nitrogen fertilizer required and improve the uptake potential for the targeted crop making the nutrient management system more efficient and improve local water quality.	\$ 83,826.00	11.3
2	2	Erie SWCD	Two specialty crop farms will install micro-irrigation systems. These systems will convert approximately 104 acres of cropland from conventional overhead irrigation to micro-irrigation. This will increase on-farm efficiency of water use, application and delivery, reduce GHG emissions by replacing overhead diesel-powered irrigation pumps with efficient clean powered electric pumps, and reduce fertilizer use by delivering fertilizers through irrigation water which will reduce the potential for nitrate to leach into groundwater.	\$ 147,430.00	0.0
5	2	Essex SWCD	A livestock operation will mitigate flooding and erosion issues arising from frequent intense rain events as part of a broader farm management plan to minimize negative environmental impact. The structural erosion control system will include a flood attenuation pond and dredging of a second, existing pond to increase water holding capacity. Grassed waterways will be implemented to control the direction and flow of water with new culverts to direct flow under access roads. Repairs will be done to existing access roads due to erosion.	\$ 38,100.00	0.0
3	2	Essex SWCD	A farm will install a 4 acre riparian forest buffer system and ponds for stormwater capture and irrigation. The forested buffer will sequester carbon and reduce farm runoff to the Boquet River and Lake Champlain. A series of farm ponds will capture approximately 1M gallons of water during storm events to utilize for irrigation to the farm's vegetable fields and managed to promote additional carbon sequestration potential.	\$ 103,500.00	28.6

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3	2	Essex SWCD	A 50 acre organically-managed crop farm will install a drip irrigation system utilizing a soil moisture monitoring system and electric irrigation pump. This system will increase water security, reduce fuel inputs eliminating GHG emissions from 1,200 gallons of diesel fuel per year, and convert 2 acres of organic perennial crops to no-till which will allow for mulching thereby sequestering carbon and increasing water infiltration.	\$ 117,960.00	17.4
2	2	Essex SWCD	A farm will incorporate agroforestry practice systems including the construction of three ponds. This system will capture and store enough water for a 100 year storm event in key points in the landscape during extreme weather events that will then be used for irrigation during times of drought. This will reduce the amount of water flowing into the Boquet River benefiting homes and businesses downstream with reduced flows. Additionally, the project will re-establish trees and shrubs which store carbon and improve soil health and hay and forage quality.	\$ 184,130.00	291.0
4	2	Fulton SWCD	A tree farm will install a solar powered irrigation water management system. This system will lessen the farm's impact on the environment by reducing the amount of diesel fuel and gasoline used to transport water on-farm, improving resiliency, enhancing farm efficiency, reducing nitrogen leaching and volatilization, and improving flood attenuation during storm events.	\$ 49,359.00	0.0
4	2	Fulton SWCD	A farm will implement a solar irrigation water management system. This system will reduce on-farm GHG emissions and improve climate resiliency. The farm will decrease their dependency on fossil fuels for crop production and the operation of the farm store and produce stand.	\$ 29,038.00	0.0
3	2	Genesee SWCD	A dairy farm will expand a total clean water collection system for farmstead runoff. This system will expand clean water storage to 4.5M gallon capacity and install a connected center pivot irrigation system. The irrigation project will have a two-phase impact on the farms' ability to adapt to climate change by irrigating crop fields during drought conditions and provide additional storage of stormwater during wet periods.	\$ 156,790.00	2.5

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5	2	Jefferson SWCD	A beef farm will improve resiliency by managing runoff during storm events. The system will capture and divert stormwater from 16 acres of watershed and protect 5 acres of pastureland. The system will divert runoff to an area where it can be safely outlet and allowed to slowly infiltrate rather than runoff.	\$ 16,036.00	0.0
3	2	Jefferson SWCD	A farm will install a riparian forest buffer system and livestock access control. These systems will reduce streambank erosion reducing sedimentation to the stream, provide a reliable water source for grazing animals, improve the capability of the farm to withstand extreme weather conditions, and sequester carbon through soil organic matter. The project will increase the farm's resiliency by improving water storage for the stream's floodplains and by implementing an alternate and constant water source for cattle.	\$ 43,696.00	5.2
5	2	Madison SWCD	A farm will install multiple cropland best management practices to control erosion and flood waters affecting both the farm's cropland and the community directly downslope. This project proposes to install a diversion, lined waterways, water and sediment control basins with underground outlets, strip cropping, reduced tillage practices, and cover crops. This system of practices is designed to reduce erosion and runoff from the fields. The farm has recently adopted reduced tillage practices in their row crops where practical to reduce fuel consumption and cropland erosion.	\$ 122,289.00	126.0
4	2	Madison SWCD	A dairy farm will stabilize a stream channel leading to reduced erosion through the removal of obstructions and reshaping of the channel. This will allow for the required capacity within the channel to contain flood waters by developing a floodplain bench which mimics a natural river-floodplain system conveying flood water safely to a designed floodway. These systems will make the farm more resilient to climate change by eliminating the ongoing flooding of prime farmland and the resulting damage that the farm must repair after each storm event.	\$ 79,100.00	13.0

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3	2	Madison SWCD	A crop farm will implement a water and sediment control basin system. This system will capture and hold water on the field allowing for slow release to avoid erosion and reduce runoff through the Village of Chittenango. The system can hold approximately 3M gallons of water to be released over 36 hours, in addition to expansion of the farm's no-till cultivation practices by 90 acres. These combined efforts will result in both farm resiliency and protection of the Village of Chittenango from flooding risk.	\$ 128,600.00	35.0
3	2	Monroe SWCD	A dairy farm will install a riparian buffer system and an irrigation water management system to mitigate nutrient and sediment runoff from the farm fields. The project will include the planting of 60 new acres of forage. Through the implementation of the irrigation water management system, the farm will be able to store and convey water as needed and to prepare for drought situations, eliminating dependency on municipal water to irrigate their crops.	\$ 149,085.00	79.0
4	2	Onondaga SWCD	A dairy farm will install a rock-lined waterway with several outlets to direct runoff and stormwater into a riparian buffer. This system will slow the water, reduce soil erosion and sediment issues, and reduce nutrients reaching Skaneateles Lake.	\$ 24,505.00	0.0
4	2	Onondaga SWCD	A farm will install a 25 acre prescribed grazing system. The farm will install gravel laneways and crossings to facilitate animal traffic for the rotational grazing plan. This system will clear accumulated sediment from existing drainageways to reduce pasture flooding risk and future sedimentation and protect water quality through fencing along waterways to prevent livestock access.	\$ 36,273.00	2.0
3	2	Onondaga SWCD	A farm will implement stream corridor management and create a one acre wetland on an unused agricultural field allowing for greater storage of stormwater. The project includes the installation of practices to control and direct flows into a new floodplain allowing the water to redistribute. These practices, together, will help to reduce the flood volume downstream and ultimately reduce sedimentation into Skaneateles Lake.	\$ 180,851.00	24.5

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2	2	Onondaga SWCD	Two farms will install ponds to increase water storage capacity improving the farms' resiliency in future drought conditions. The pond will help to eliminate hauling water with an 18-wheel tanker truck to fill the farms' primary ponds further reducing GHG emissions. The project will also provide fire protection for rural communities and stormwater management for neighbors downslope of the ponds.	\$ 86,621.00	3.8
2	2	Onondaga SWCD	A farm will install a pond to increase water capacity and improve the farms' resiliency to future drought conditions.	\$ 25,625.00	0.0
1	2	Onondaga SWCD	A farm will implement a stream corridor and shoreline management system. This system will restore a dam able to retain 22.8M gallons, hold an additional 22.5M gallons during storm events, restore the flows between 22 acres of wetlands, benefit additional farms and landowners downstream, protect county water supply intakes in Otisco Lake, and protect a NYS DEC protected stream.	\$ 46,324.00	0.0
5	2	Ontario SWCD	An organic seed farm will construct an upland, quarter-acre water retention basin to capture surface water flow directly upslope of the production area and use this retained water to supply an irrigation system. The basin will allow for stormwater storage of 300,000 gallons from a 20 acre upland watershed. The controlled flow of water through the farm will also address flooding and drainage of production fields.	\$ 20,168.00	0.0
5	2	Orange SWCD	This project will implement a phased flood mitigation system on the Wallkill River. The Wallkill River Floodplain Bench Project extends the floodplain further upstream to increase flood protection for this high valued agricultural region of NYS. A floodplain bench mimics a natural river-floodplain system conveying flood water safely to a designed floodway. A riparian forest buffer will be implemented, providing additional GHG mitigation benefits to this important climate change adaptation project.	\$ 300,000.00	100.0

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2	2	Orange SWCD	A farm will implement a floodplain bench for agricultural flood control and riparian restoration. These systems will reconnect the Wallkill River to a designed floodplain for about 1,000 feet, provide flood protection, greatly enhancing the farm's economic viability by reducing the current risk of crop and land damages from floodwaters, and create 3 acres of riparian forest buffer along the floodplain bench to provide additional forest ecosystem services including the storage of carbon and increased runoff filtration from the surrounding crop fields.	\$ 150,054.00	27.0
1	2	Orange SWCD	Two farms will implement stream corridor and shoreline management and riparian buffer systems. These systems will create a floodplain bench on a 3/4 mile stretch of the Wallkill River. Four acres of cropland will be converted to permanent riparian buffer and provide flood relief to approximately 3,000 acres of surrounding agricultural lands.	\$ 75,000.00	35.0
5	2	Otsego SWCD	A small organic fruit and vegetable farm will implement a solar pump and precision irrigation system. The system is a key component in the farm's Water Management Plan and will increase efficiencies in water usage while reducing energy consumption. Soil health practices including cover crops and mulching will be implemented.	\$ 35,001.00	0.0
5	2	Schoharie SWCD	A farm will implement streambank stabilization to stabilize and reroute a tributary to the Mohawk River on a field that was recently converted from cropland to pasture. The project will restrict animals from the degraded reach with fencing and provide a stable stream crossing as well as an alternative water source. A half-acre vegetated buffer will also be implemented on either side of the newly stabilized stream.	\$ 94,735.00	2.0

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5	2	Schuyler SWCD	A multiple barrier approach to climate resiliency will be implemented working with three farms to install retention ponds. The ponds will retain over 5M gallons of stormwater to reduce peak downstream flows during high-intensity short-duration storms. These ponds will also provide the farms with water holding capacity during drought conditions. Over 98 acres of highly erodible cropland will be converted to permanent pastures, significantly increasing water holding capacity and reducing GHG emissions. A 32 acre riparian forest buffers and 6 acres of herbaceous cover will be implemented providing sequestration benefits to this project.	\$ 147,000.00	187.0
5	2	Seneca SWCD	A 1,400 acre cash crop farm in the Seneca Lake Watershed will implement a water management system treating a 65 acre catchment for flood control. The system will include diversions, a basin, underground outlets, and a grassed waterway to reduce flooding and erosion on the farm as well as protect downstream infrastructure and residents. The project is estimated to reduce erosion to Seneca Lake by 8 tons/acre/year, and reduce fuel consumption by 6.3 gallons/acre/year and fertilizer use by 750 pounds/acre/year.	\$ 90,280.00	3.0
4	2	Seneca SWCD	Two farms in the Cayuga Lake watershed will implement various water management systems. These systems will decrease the farms' emissions while bolstering resiliency to flooding and resulting erosion. This project aligns with goals set forth in the Cayuga Lake Harmful Algal Blooms (HABs) Action Plan.	\$ 106,100.00	3.0
4	2	Tioga SWCD	A farm will install riparian forest buffers and tree plantings. These systems will provide carbon sequestration, streambank protection, floodplain reconnection, berm removal, and wetland enhancements to help with flood mitigation. The farm will be more resilient and adaptive to climate change while also showcasing the importance of riparian corridor management.	\$ 244,130.00	1.6
4	2	Tompkins SWCD	A farm will install a system of grassed waterways and ponds to store water and reduce peak discharge from the farm into roadside ditches during storm events. This system will help the farm adapt to weather extremes by storing water to irrigate perennials or provide water for livestock and contain water flow across the farm in wet years to protect pastures and trees.	\$ 60,000.00	2.7

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5	2	Washington SWCD	A vegetable farm and a dairy farm will mitigate water stress during times of drought. The project includes construction of storage ponds to capture available water which is then transferred to existing irrigation and animal maintenance systems. The watershed captured with both projects is approximately 60 acres, with 1+ acre of surface water stored. Having water storage allows the farms to utilize water they otherwise would not have access to. Additionally, gravity flow piping and appropriately designed systems to meet the needs of water capacity and flow rates will minimize the need for fuel usage for pumping within the new systems.	\$ 81,500.00	0.0
5	2	Wayne SWCD	A 2,200 acre crop farm will implement a water management system comprised of 3 control basins, subsurface drainage, and underground outlets. The system will mitigate runoff from 115 acres by directing, slowing, and diffusing concentrated water flows. These practices will eliminate erosion and reduce sediment, nutrient, and pathogen export. The system will mitigate the impacts of significant rain events on the hillside, highly erodible, and prime soil fields as well as mitigate runoff from roadways and other failing drainage infrastructure.	\$ 41,730.00	0.0
4	2	Wayne SWCD	A farm will implement a micro-irrigation drip water management system. This system will be installed over 20 acres of high-density fruit trees and will efficiently apply water and fertilizer, when needed, directly to the plant root zone and maintain soil moisture for optimum plant and fruit growth.	\$ 39,690.00	0.0
3	2	Wayne SWCD	A farm will install a water management and erosion control system. This system will install water and sediment control basins, underground outlets, and subsurface drainage conveying flows to an established wetland area, reduce erosion and eliminate sediment delivery, nutrient loss, and nutrient and pathogen runoff to nearby waterways while improving' water infiltration and increasing the water holding capacity of the soil.	\$ 75,831.00	0.0

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2	2	Wayne SWCD	A farm will install a sustainable irrigation system. This system will help the farm build resiliency in drought conditions on 500 acres of vulnerable soil and allow the farm to improve crop cover and crop density which are key components to capturing and storing carbon in plants and soils for GHG reduction.	\$ 226,500.00	0.0
2	2	Wayne SWCD	Three farms will install water and sediment control basins and associated practices. These systems will direct, slow, and diffuse concentrated water flows and reduce erosion, soil loss, sediment delivery, and nutrient and pathogen runoff to nearby waterways.	\$ 145,982.00	0.0
4	2	Westchester SWCD	A farm will install best management practices to address flooding in critical farm areas and increase carbon sequestration. These systems will prevent flooding of heavy use areas and critical infrastructure during rain events by capturing stormwater and redirecting it to the constructed wetland. Additionally, the farm's nutrient management plan, grazing plan, and perennial forage planting will improve soil organic matter and increase the amount of carbon sequestered in the soil.	\$ 89,851.00	38.0
2	2	Wyoming SWCD	A farm will implement a pond expansion to improve resilience during drought conditions. This system will expand the volume of an existing pond to ensure a continuous supply of water in the future, prevent the need to truck supplemental water to the farm thereby reducing fuel use, and GHG emissions. Additionally, the system will increase water holding capacity of stormwater that would otherwise impact downstream communities.	\$ 32,010.00	3.0
Round	Track	Organization	Awarded Project Description	Amount Awarded*	GHG Reduction/ Carbon Sequestration Estimation (MTCO2 eq/yr.)*
Track 3 - Healthy Soils NY: soil health practices sequester carbon and increase resiliency to the impacts of climate change.					
2	3	Broome SWCD	Three farms will implement 125 acres per year of cover crops for three years. This system will improve soil quality, reduce soil erosion, increase soil organic matter, improve the productivity of the fields by increasing the amount of water and nutrients that can be held in the soil, and provide a carbon sink.	\$ 24,908.00	14.0

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5	3	Cayuga SWCD	A farm will implement an 88 acre prescribed rotational grazing system. This project will improve water management during drought and storm events, reduce fertilizer use, and fuel consumption from harvesting by 1,080 gallons of diesel annually.	\$ 62,338.00	91.0
4	3	Cayuga SWCD	Four farms will implement 4,020 acres per year of cover crops and 780 acres per year of residue and tillage management for three years. This system will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter and reduce GHG emissions.	\$ 227,944.00	580.0
3	3	Cayuga SWCD	Four farms will implement 454 acres per year of cover crops and 445 acres per year of residue and tillage management for three years. This system will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter and reduce GHG emissions.	\$ 92,251.00	113.0
3	3	Cayuga SWCD	Three farms will implement 1,135 acres per year of cover crops, 125 acres per year of conservation crop rotation, and 145 acres per year of residue and tillage management for three years. These combined systems will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter and reduce GHG emissions.	\$ 94,939.00	182.0
3	3	Cayuga SWCD	Two farms will implement 30 acres of a permanent grass based grazing systems including installation of fence, watering system, forage and biomass planting, and planning 26 acres per year of cover crops, and 42 acres per year of reduced tillage management for three years. These systems will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter, and reduce GHG emissions.	\$ 39,540.00	46.0
3	3	Chautauqua SWCD	A farm will implement diverse species cover crops on 267 acres per year for three years. This system will improve soil quality, increase soil organic matter, reduce soil erosion during extreme weather events and escalate the productivity of the fields by increasing the amount of water and nutrients that can be held in the soil and provide a carbon sink by trapping carbon in the soils.	\$ 85,024.00	11.0

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3	3	Chenango SWCD	Six farms will implement cover crops on 1,170 acres per year for three years. This system will improve soil quality, reduce erosion, and increase soil organic matter reducing downstream flooding. Increased organic matter leads to better soil carbon sequestration and nutrient management for plant growth. Flooding downstream is also decreased by farm fields located in the floodplain absorbing excess water.	\$ 77,256.00	35.0
2	3	Chenango SWCD	Four farms will implement 1,015 acres per year of cover crops for three years. This system will improve soil quality, reduce erosion, and increase soil organic matter. Leading to better soil carbon sequestration and nutrient management for plant growth. Resiliency during periods of flood and drought increases because soils with a high organic content will hold significantly more water and lead to a more vigorous crops.	\$ 62,374.00	35.0
4	3	Clinton SWCD	A dairy farm will implement cover crops on 240 acres per year for three years. This system will add organic matter to the soil to increase resiliency by improving water holding capacity during drought as well as taking up excess water in the spring which will help dry out the cropland.	\$ 14,272.00	10.0
4	3	Clinton SWCD	A diverse agri-business will convert 12 acres of hayland into pasture and implement a prescribed rotational grazing system. These systems will improve soil health throughout the farm's new and current pasture land, reducing soil compaction and allowing soils to retain moisture longer during periods of drought. Having the proper amount of forage availability for the herd will reduce reliance on hay during the summer months and reduce fuel use.	\$ 17,705.00	1.0
3	3	Erie SWCD	Five farms will implement 690 acres per year of cover crops for three years. This system will improve the carbon sequestration potential in the soils through planting cover crops using reduced tillage techniques and improve resiliency to the farm during periods of flood and drought because soils with high organic content will hold more moisture and lead to a more vigorous crop.	\$ 82,268.00	27.0

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5	3	Essex SWCD	A farm will implement a soil conservation system that will improve soil health, decrease soil erosion, and sequester carbon. This project will implement 17 acres of no-till seeding with perennial grasses and legumes to improve pasture forage and soil health. An additional vegetable field will be mulched to improve water retention, build soil organic matter, and reduce runoff.	\$ 21,030.00	1.0
4	3	Essex SWCD	A farm will implement 600 acres per year of cover crops, intercropping, and forage and biomass planting for three years. These systems will promote continual vegetative cover and reduce tillage.	\$ 82,330.00	225.0
3	3	Essex SWCD	A farm will implement 225 acres per year of cover crops for three years. This system will improve soil quality, reduce erosion, and increase soil organic matter.	\$ 14,875.00	9.0
5	3	Fulton SWCD	Seven small-scale vegetable farms will improve soil health through cover cropping. This project will implement 42 acres per year of cover crops for three years. The District will purchase a small-scale no-till drill and strip-till equipment for use by the farms. Soil health tests will be used to monitor soil organic matter levels.	\$ 45,720.00	15.0
3	3	Fulton SWCD	A farm will implement a 45 acre prescribed grazing and 5.7 acre riparian buffer system. These systems will increase soil health by converting 32 acres of annual cropland to perennial growing pasture and reduce GHG emissions by eliminating supplemental feed grown off site during the grazing season.	\$ 74,474.00	52.0
3	3	Fulton SWCD	Fulton SWCD will purchase an interseeder and introduce a new cover cropping method to landowners implementing a pilot program that will provide the equipment, seed, and instruction to six farms within the county to plant approximately 300 acres per year of cover crops for three years. This system will demonstrate the effectiveness and benefits of cover cropping; soil loss reduction, increased organic matter, reduced fuel consumption, reduction in GHG emissions, and improved soil health.	\$ 59,760.00	12.0
5	3	Genesee SWCD	A farm will implement cover crops. This project will plant 314 acres per year of multiple-species cover crops for three years decreasing erosion and compaction, and increasing water retention in the soil for resiliency.	\$ 59,823.00	37.0

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5	3	Genesee SWCD	A farm will use reduced tillage methods and cover cropping. This project will implement 35 acres per year of cover crops and 79 acres per year of strip-tillage for three years. Reducing tillage will reduce fuel usage by 1,403 gallons of fuel.	\$ 35,445.00	28.0
5	3	Genesee SWCD	Three farms will use reduced tillage methods and cover cropping. This project will implement 396 acres per year of cover crops for three years.	\$ 75,341.00	106.0
5	3	Genesee SWCD	Two farms will use reduced tillage methods and cover cropping. This project will implement 284 acres of cover crops per year and 357 acres of no-till for three years. The implementation of these practices will sequester carbon, reduce fuel usage, reduce GHG emissions, and reduce soil loss and compaction.	\$ 72,749.00	177.0
5	3	Genesee SWCD	A farm will improve soil health with cover cropping. This project will implement 196 acres of cover crops per year for three years. The implementation of cover crops will allow the farm to be more adaptable to drought and precipitation, mitigate GHG emissions, and improve the water quality in a sensitive watershed.	\$ 38,997.00	54.0
1	3	Genesee SWCD	A farm will implement 302 acres per year of cover crops. This system will improve soil quality, reduce soil erosion, increase soil organic matter, improve water holding capacity, reduce the need for commercial fertilizer application and compliment the reduced tillage and no-till practices that are already being used.	\$ 20,481.00	12.0
5	3	Jefferson SWCD	A farm will implement 50 acres per year of cover crops and 50 acres per year of reduced tillage for three years. Soil health testing will be done to measure a change in soil organic matter after implementation.	\$ 33,285.00	17.0
2	3	Jefferson SWCD	Two farms will implement 200 acres per year of cover crops for three years and convert 200 acres of conventionally tilled crop land to conservation tillage. This system will reduce equipment fuel use by an estimated 25% and improve the carbon sequestration potential in the soils through reduced tillage techniques.	\$ 49,838.00	8.0

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5	3	Montgomery SWCD	A farm will implement 53 acres per year of cover crops for three years. The farm will purchase a no-till corn seeder. By interseeding into a standing corn crop, a cover crop can be established early in the growing season, to improve soil health, reduce the impact of drought and flooding, and reduce soil loss from erosion. Soil health tests will be used to monitor organic matter levels.	\$ 41,220.00	44.0
4	3	Montgomery SWCD	A farm will install two separate prescribed rotational grazing systems. Silvopasture practices will be conducted within one of the grazing systems to improve water quality, minimize erosion, reduce stormwater runoff and increase carbon sequestration.	\$ 130,365.00	184.0
5	3	Onondaga SWCD	A farm will implement 150 acres per year of cover crops and 150 acres per year of reduced tillage for three years to help build soil organic matter, sequestering carbon, and increase the farms resiliency to storm events.	\$ 40,236.00	38.0
3	3	Onondaga SWCD	A farm will implement a prescribed grazing system. This project will increase soil health by converting 48 acres of annual cropland to perennial growing pasture and improve soil carbon sequestration by promoting plant growth throughout the year and by adding organic matter to the soils.	\$ 40,760.00	64.0
3	3	Onondaga SWCD	An alpaca farm will implement 6.5 acres of prescribed rotational grazing. Rotational grazing will minimize the amount of time alpacas spend on each paddock and increase forage quality and quantity. The primary need on this farm for climate change adaptation is to improve soil health to better manage periods of water stress, whether drought or more intense storm events.	\$ 20,262.00	9.0
2	3	Onondaga SWCD	A farm will implement a prescribed grazing system. This project will increase soil health by converting 27 acres of annual cropland to perennial growing pasture, sequester carbon, and increase resiliency by providing 100% of livestock feed from pasture and reduce farm-based GHG emissions by eliminating supplemental feed grown off-site during the grazing season.	\$ 39,382.00	35.0

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1	3	Onondaga SWCD	A farm will implement a 50 acre prescribed rotational grazing system excluding 50 livestock from a stream and soil health systems. This project will plan 300 acres per year of cover crops for three years to better manage periods of water stress during drought and storm events, reduce fuel consumption from harvesting by 9,240 gallons of diesel over ten years.	\$ 55,803.00	14.0
3	3	Ontario SWCD	Four farms will implement 1,200 acres per year of diverse species cover crops for three years to improve the carbon sequestration potential in the soils. Reduced tillage techniques will be used to improve resiliency to flood and drought.	\$ 119,907.00	47.0
2	3	Ontario SWCD	Three farms will implement 500 acres per year of cover crops for three years. To improve resiliency during periods of flood and drought.	\$ 44,790.00	19.0
5	3	Otsego SWCD	A farm will implement a soil health system to decrease soil erosion, sequester carbon, and reduce fertilizer use. This project will implement 3 acres per year for three years of mulching, composting, and cover crop planting to improve water retention and build soil organic matter.	\$ 52,346.00	5.0
5	3	Rensselaer SWCD	A farm will implement a silvopasturing system that will sequester carbon and reduce GHG emissions. This project will implement 20 acres of forage and biomass planting with native perennial grasses and plant hybrid chestnut trees to improve pasture forage and improve soil health.	\$ 72,037.00	50.0
5	3	Rensselaer SWCD	A farm will convert 33 acres of cropland to perennial pasture. The prescribed rotational grazing system will include a watering system and fencing. Implementation of the grazing system will enhance the farms resiliency from drought and intense storm events, improve water quality, improve soil health, and reduce GHG emissions.	\$ 45,589.00	38.0
5	3	Schoharie SWCD	A farm will convert from conventional tillage to a reduced tillage system. This project will implement 25 acres of reduced tillage per year for three years. The farm will purchase a no-till corn seeder. Changing to a no-till system will reduce the number of passes over the field reducing fuel usage from an estimated 6 gal/acre to 2 gal/acre while keeping the soil covered year round to gain the benefits of improving soil health.	\$ 18,506.00	8.0

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4	3	Schoharie SWCD	A beef farm will convert 68 acres of cropland to rotational grazing system and permanent pasture. This plan will reduce their carbon footprint and provide overall benefits to the environment.	\$ 32,657.00	82.0
3	3	Schoharie SWCD	A vegetable farm will implement cover crops using no-till planting methods. This project will plant 14 acres per year of diverse species cover crops for three years.	\$ 10,256.00	3.0
3	3	Schoharie SWCD	A farm will convert 215 acres of cropland to a rotational grazing system. This system will reduce erosion, sedimentation, and improve soil health. Soil tests will take place to establish a baseline in order to increase organic matter.	\$ 35,118.00	260.0
3	3	Schoharie SWCD	A farm will implement stream crossings excluding animals from the stream and establish an additional 7.5 acres of pastures, fence will be installed 30 feet from the stream to create a vegetated buffer. The stream corridor is denuded and has areas that over reach their banks causing flooding issues within the farm.	\$ 14,050.00	0.0
3	3	Schuyler SWCD	Seven large farms, including dairy, crop, beef, and sheep farms in three priority watersheds, will implement cover crops. This project will plant a minimum of 2,000 acres of cover crops per year for three years. A high-boy sprayer converted into an Interseeder will be purchased to apply cover crops throughout the entire growing season, allowing a larger window of time in which to implement the practice, for year-round cover crop production. This project will conserve soil, and improve water holding capacity by improving soil health and build resiliency from extreme storm events.	\$ 205,000.00	55.0
5	3	Washington SWCD	Washington SWCD will purchase an interseeder and introduce this new cover cropping method to landowners. The 3-year pilot program will provide the equipment, seed, and instruction to three farms within the county. The project will demonstrate the effectiveness and benefits of cover cropping including soil loss reduction, increased organic matter, reduced fuel consumption, reduction in GHG emissions, and an improvement in soil health.	\$ 60,000.00	25.0
5	3	Wayne SWCD	Five farms will implement cover crops. This project will plant 200 acres per year of cover crops for three years decreasing erosion and compaction, and increasing water retention in the soil for resiliency.	\$ 103,822.00	24.0

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5	3	Wayne SWCD	Six fruit farms will implement soil health practice systems to improve pollinator habitat, decrease soil erosion, and sequester carbon. This project will implement 3 acres of pollinator habitat and herbaceous buffer sites to improve water retention and build soil organic matter. Cover crops will also be used to reduce applied fertilizer.	\$ 27,555.00	3.0
3	3	Wayne SWCD	A farm will convert 36 acres conventionally tilled cropland to permanent pasture with a Prescribed Rotational Grazing Plan. The project will include fencing, forage and biomass planting, a water well, pumping plant, pipeline, watering facilities, and a prescribed rotational grazing plan.	\$ 38,084.00	44.0
1	3	Wayne SWCD	A farm will implement 302 acres per year of cover crops for three years. Additional practices will include minimal tillage and conservation crop rotation.	\$ 73,778.00	47.0
5	3	Wyoming SWCD	A farm will implement reduced tillage methods and cover cropping on highly erodible land. This project will implement 193 acres per year of cover crops for three years and 171 acres of zone tillage management for three years. The implementation of these practices will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter, and reduce GHG emissions.	\$ 46,159.00	206.0
5	3	Wyoming SWCD	A farm will implement reduced tillage methods and cover cropping on highly erodible land. This project will implement 300 acres per year of cover crops and 300 acres per year of no-tillage management for three years. The implementation of these practices will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter, and reduce GHG emissions.	\$ 66,936.00	117.0
3	3	Wyoming SWCD	A farm will plant 450 acres per year of cover crops on highly erodible lands for three years. Cover crops protect both soil health and water quality by reducing erosion and improving soil structure. The proximity of highly erodible lands to nearby tributaries means sediment-laden runoff will be captured by the stream before it can be filtered, contributing to downstream water quality degradation.	\$ 32,300.00	12.0

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5	3	Yates SWCD	A vineyard will implement nutrient management. This project will use compost and biochar as a soil amendment to improve soil quality, increase soil carbon content, reduce erosion, and increase soil organic matter. Biochar will also improve the water-holding capacity of the soil to increase resiliency to drought as well as increase retention of soil nutrients providing the potential to reduce inputs of fertilizer.	\$ 42,080.00	10.0
5	3	Yates SWCD	Multiple vineyards will reduce soil erosion and increase carbon sequestration by increasing vegetative cover under vines in the Keuka and Seneca Lake Watersheds. This project will implement 270 acres of conservation cover underneath the vines where it is usually left bare. A specialized mower allowing farms to control the vegetation underneath the trellis will be purchased by the District for use by area farms.	\$ 83,020.00	140.0
TOTALS				\$12,019,717.00	319,083.1

* Values are subject to change upon evaluation by NYSAGM.