

Climate Resilient Farming, Round 8 - Project Descriptions

RFP 0320

Track	Organization	Project Description	State Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
<i>Track 1A: Livestock Management Projects: reduce methane emissions from livestock operations including manure management through the collection and destruction of methane and increase resiliency to major precipitation events.</i>					
1A	Columbia SWCD	\$2,829,220 was awarded to Columbia County Soil and Water Conservation District to work with a dairy farm to reduce their GHG emissions by implementing a new manure management system including the installation of 2 manure storage cover and flare for methane destruction and utilizing solid-liquid separation of manure for bedding material. The manure separation system will eliminate the farm's need to truck in over 6 tons of bedding material each year. Reduced trucking will improve community relations and local air quality. The farm will also be more resilient to precipitation events by increasing their storage capacity which protects local water quality.	\$ 2,829,220.00	\$ 5,830,969.00	30,440
1A	Wyoming SWCD	\$1,573,468 was awarded to Wyoming County Soil and Water Conservation District to work with a dairy farm, that is a new participant to SWCC programs, to install a cover and flare system on a manure storage and utilize solid-liquid separation of manure for use as bedding. The proposed project will exclude 1.9 million gallons of precipitation from the storage that will be used for irrigating crops making the farm more resilient to drought. Also reducing fuel consumption associated with hauling manure by more than 1,000 gallons of diesel fuel annually. This project includes a new participant to SWCC programs.	\$ 1,573,468.00	\$ 2,071,168.00	22,092
1A	Wyoming SWCD	\$2,275,046 was awarded to Wyoming County Soil and Water Conservation District to work with a dairy farm to implement a manure storage cover and flare system that will reduce the farm's GHG emissions annually. The cover will eliminate 4.6 million gallons precipitation from entering the storage each year. Excluding precipitation from the storage increases storage capacity, allowing the farm to apply nutrients on their fields during optimal conditions. This project includes a new participant to SWCC programs.	\$ 2,275,046.00	\$ 2,837,746.00	19,229

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Track 1B: Manure Storage Cover and Capture Projects: reduce methane emissions from livestock operations including manure management through the collection and destruction of methane and increase resiliency to major precipitation events.					
1B	Cayuga SWCD	\$5,107,450 was awarded to Cayuga County Soil and Water Conservation District to work with a dairy farm to install a cover and flare system. The proposed system will allow the farm to capture methane and combust it into carbon dioxide, which has 84 times less global warming potential than methane over a 20 year timespan. Covering the existing storage will allow the farm to use the water captured to recharge surface and ground water, directing it into a filter area adjacent to the storage. This will reduce manure hauling which will reduce fossil fuel use and field soil compaction.	\$ 5,107,450.00	\$ 6,369,029.00	14,990
1B	Ontario SWCD	\$3,169,388 was awarded to Ontario County Soil and Water Conservation District to work with two adjacent dairy farms to install three manure storage cover and flare systems. This manure management system will give both farms the ability to produce separated manure solids for bedding and covert to dragline manure application systems for highly efficient nutrient management. This project includes a new participant to SWCC programs.	\$ 3,169,388.00	\$ 3,655,310.17	15,768
1B	Schuyler SWCD	\$1,926,500 was awarded to Schuyler County Soil and Water Conservation District to work with a dairy farm to install manure separation, transfer, cover, and flare on an existing manure storage. Covering the storage and flaring off the methane will greatly reduce the farm's GHG emissions and increase the farm's resiliency. The manure storage cover will prevent over 1.7 million gallons of rain water from entering the storage, preventing the dilution of nutrients in the manure which will reduce the need for synthetic fertilizers.	\$ 1,926,500.00	\$ 1,939,900.00	9,850

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<i>Track 2: Adaptation and Resiliency: enhance climate resiliency and adaptive capacity of the farm operation; improved water management increases resiliency to drought and flood conditions as a result of climate change.</i>					
2	Erie SWCD	\$55,040 was awarded to Erie Soil and Water Conservation District to work with a an equine operation with 26.5 acres of pasture that is have experienced extreme erosion that is bisecting the field. An erosion control system consisting of a series of grassed waterways with underdrains will be installed to slow the flow of water and eliminate erosion. This project includes a new participant to SWCC programs.	\$ 55,040.00	\$ 70,840.00	2
2	Genesee SWCD	\$16,273 was awarded to Genesee Soil and Water Conservation District to work with a small vegetable farm to improve water retention on the farm and support crops through drought conditions with efficient irrigation. A drip micro-irrigation system will be installed on cropland not currently being irrigated. A riparian forest buffer and pollinator-friendly ground cover is planned to be installed to improve rainfall retention and increase biodiversity on the farm. This project includes a new participant to SWCC programs.	\$ 16,273.00	\$ 20,378.34	13
2	Genesee SWCD	\$301,510 was awarded to Genesee Soil and Water Conservation District to work with a dairy farm to install a stormwater runoff collection and storage system on the farm's heifer facility to reuse the collected water for irrigation. The project will result in reduced water runoff to the Oatka Creek, while improving the farm's resiliency to drought conditions by increasing their water supply and storage capacity for the existing irrigation system.	\$ 301,510.00	\$ 394,410.00	0
2	Genesee SWCD	\$165,335 was awarded to Genesee Soil and Water Conservation District to work with a dairy farm to install a center pivot irrigation system to mitigate the impacts of drought on the crops. Water for the irrigation system will come from collected runoff from the farmstead. The system will increases the farm's climate resiliency managing water in times of flood and drought.	\$ 165,335.00	\$ 213,645.00	0

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2	Madison SWCD	\$95,820 was awarded to Madison Soil and Water Conservation District to work with a farm to construct a water and sediment control basin to hold and slow the flow of water upstream of a culvert where flooding is continuously occurring at the road and two houses nearby. An additional lined waterway will help convey water and reduce erosion. The farm will also plant cover crops to increase organic matter in the soil.	\$ 95,820.00	\$ 128,421.00	20
2	Madison SWCD	\$137,483 was awarded to Madison Soil and Water Conservation District to work with a small vegetable farm experiencing severe drought and flooding resulting in crop losses. Restoration will occur on a stream causing flooding including a forested riparian buffer to reduce impacts of flooding. The farm will also convert 20 acres from intensive plowing to a reduced tillage system that will reduce GHG emissions. Two irrigation ponds will be constructed to aid with irrigating crops in times of drought. This project includes a new participant to SWCC programs.	\$ 137,483.00	\$ 185,970.00	44
2	Madison SWCD	\$46,735 was awarded to Madison Soil and Water Conservation District to work a farm to implement a stormwater control project to reduce soil erosion and flooding. The farm will also implement cover crops to increase soil organic matter and reduce erosion. Addressing erosion and flooding issues will make the farm more resilient to storm events.	\$ 46,735.00	\$ 63,361.00	67
2	Montgomery SWCD	\$46,950 was awarded to Montgomery Soil and Water Conservation District to work with a dairy to increase stormwater retention by increasing water storing capacity of a pond used for irrigation. The project will also permanently eliminate access cows have to a pond and the stream corridor. A hedgerow will be planted to provide cows more shade in the grazing system and create a carbon sink.	\$ 46,950.00	\$ 58,775.00	6

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2	Montgomery SWCD	\$64,588 was awarded to Montgomery Soil and Water Conservation District to work with a beef operation to install a 3.7 acre riparian forest buffer along the Canajoharie Creek including planting hardwoods and shrubs. The project will also include a prescribed grazing system for the beef herd including three watering facilities to deliver water to each paddock. The perennial vegetation in the buffer and pastures will create a carbon sink. This project includes a new participant to SWCC programs.	\$ 64,588.00	\$ 80,934.00	31
2	Niagara SWCD	\$109,955 was awarded to Niagara Soil and Water Conservation District to work with a vegetable farm to install a micro irrigation system on 25 acres of crops replacing the farms use of a large hose reel overhead system. The micro irrigation system will conserve water and reduce GHG emissions. The large hose reel system required six gallons of fuel per hour to operate which will be reduced to two gallons of fuel per hour with the new system. This project includes a new participant to SWCC programs.	\$ 109,955.00	\$ 144,140.00	32
2	Niagara SWCD	\$124,275 was awarded to Niagara Soil and Water Conservation District to work with an orchard to install a micro irrigation system on 100 acres of new high density orchard plantings. The micro irrigation system will conserve municipal water utilized. The irrigation system will also be able to provide nutrient application to the orchard along with water for more precise management of fertilizer which will reduce GHG emissions from fertilizer production and use. This project includes a new participant to SWCC programs.	\$ 124,275.00	\$ 162,750.00	55
2	Onondaga SWCD	\$81,141 was awarded to Onondaga Soil and Water Conservation District to work with a farm to implement a stream crossing in the Butternut Creek that is more than twenty years-old and was recommended to be replaced by DEC. A more stable crossing will reduce erosion, reduce flooding issues, and improve aquatic organism passage. To help manage stormwater a roof runoff system exceeding its lifespan will be replaced to more effectively convey stormwater. This project includes a new participant to SWCC programs.	\$ 81,141.00	\$ 118,948.00	0

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2	Ontario SWCD	\$109,320 was awarded to Ontario Soil and Water Conservation District to address erosion and stormwater runoff on three farms in the Sucker Brook sub watershed of Canandaigua Lake. The project will manage stormwater run-off using upland water storage, underground outlets, and grassed channels to convey water. The proposed system will have the potential to manage over 15 million gallons of water from local storm events annually and result in saving 200 tons of soil. This project includes a new participant to SWCC programs.	\$ 109,320.00	\$ 139,720.00	0
2	Ontario SWCD	\$233,290 was awarded to Ontario Soil and Water Conservation District to work with five farms experiencing erosion and water volume runoff issues. The project will manage water using a combination of upland water storage, underground outlets, and grassed spillways to convey water in a non-erosive manner saving 980 tons of soil from erosion annually. The system will have the combined capacity to store and convey over 20 million gallons of water in a single storm event.	\$ 233,290.00	\$ 303,490.00	0
2	Orleans SWCD	\$125,472 was awarded to Orleans Soil and Water Conservation District to work with two farms to implement a riparian buffer system on 7.4 acres of land between two farm properties. The project area contain extensive numbers of dead and fallen ash trees due to the Emeral Ash Borer. The new buffer system will reduce sediment and nutrient transport from the nearby farm fields and will increase carbon sequestration through the planting of native trees and shrubs.	\$ 125,472.00	\$ 153,520.00	7
2	Orleans SWCD	\$235,839 was awarded to Orleans Soil and Water Conservation District to work with two orchards to improve their Integrated Pest Management and install frost fans for protection during extreme temperature changes. GHG emissions will be reduced to as the propane powered frost fan will reduce emissions from alternative frost protection methods burning diesel powered smudge pots or burn barrels to create high temperature fires to increase the air temperature to fight off frost. Weather monitoring systems are installed with the frost fans to monitor temperature and dew point. This project includes a new participant to SWCC programs.	\$ 235,839.00	\$ 291,555.00	938

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2	Oswego SWCD	\$26,577 was awarded to Oswego Soil and Water Conservation District to work with a sheep farm to implement a prescribed rotational grazing system changing from its current one-paddock system to a multi-paddock system rotating the sheep between paddocks. The project includes planting a riparian buffer system that will protect water quality by eliminating access to the stream. This project includes a new participant to SWCC programs.	\$ 26,577.00	\$ 35,700.00	0
2	Otsego SWCD	\$72,395 was awarded to Otsego Soil and Water Conservation District to work with a small non-profit farm producing fruits and vegetables for low income communities. The farm has been trucking water from Unadilla River and through this project will implement sustainable water sources for irrigating crops. A rainwater collections system, irrigation reservoir, will be connected to a micro irrigation system. A water well and solar powered pumping plant will also be installed.	\$ 72,395.00	\$ 92,773.26	1
2	Schoharie SWCD	\$117,235 was awarded to Schoharie Soil and Water Conservation District to work with a farm to eliminate access cows have to an unnamed tributary installing fencing, a spring and pond to provide a water source. A herbaceous buffer will be planted on the banks of the tributary to prevent erosion. 4.75 acres of cropland will be transferred into a perennial buffer creating a carbon sink and manage stormwater. This project includes a new participant to SWCC programs.	\$ 117,235.00	\$ 147,560.00	30
2	St Lawrence SWCD	\$32,190 was awarded to St Lawrence Soil and Water Conservation District to work with a vegetable farm to detect and fix a leak in their farm pond used for micro-irrigation. The project seeks to minimize seepage losses, ensuring the pond can effectively store water for irrigating crops. The farm will also plant cover crops to improve nutrient retention, erosion prevention, and increase the water holding capacity of the soil. This project includes a new participant to SWCC programs.	\$ 32,190.00	\$ 40,971.80	2

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2	Tompkins SWCD	\$129,120 was awarded to Tompkins Soil and Water Conservation District to work with two farms to control surface water management due to increased rain events. Irrigation ponds will capture rainfall and a gravity fed drip irrigation pipeline system will be created for watering crops. Eliminating the use of diesel pumps helping to reduce GHG emissions and noise which helps to improve community relations. This project includes a new participant to SWCC programs.	\$ 129,120.00	\$ 162,520.00	0
2	Wayne SWCD	\$114,660 was awarded to Wayne Soil and Water Conservation District to work with an orchard to implement a system of riparian buffers and stream corridor management that will manage stormwater. The project will reduce sedimentation and improve water quality after major rain events. Pollinator habitat and biodiversity will also improve.	\$ 114,660.00	\$ 145,960.00	10
2	Wayne SWCD	\$17,745 was awarded to Wayne Soil and Water Conservation District to work with a small fruit farm that has suffered significant loss to their strawberry crop for three previous seasons due to severe frost. The project will implement an overhead irrigation system to use when temperatures go dangerously low to create a protective frozen casing surrounding the fruit blossoms, preventing frost damage from occurring. GHG emissions will be reduced by eliminating previous methods to reduce frost including burning straw in the fields. The farm will also implement cover crops to help build soil health. This project includes a new participant to SWCC programs.	\$ 17,745.00	\$ 22,125.00	2

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2	Yates SWCD	\$544,960 was awarded to Yates Soil and Water Conservation District to work with multiple vineyards to establish more effective and less carbon-intensive methods of frost protection. Wind machines will be used to reduce frost damage. They are large propellers on towers which pull down warmer air from the thermal inversion above a vineyard and mix it with the colder air near ground-level. Wind machines will be powered by propane engine which will have lower emissions from alternate methods of frost protection such as burning hay bales. Weather monitoring systems will be paired with the frost fans and be configured for compatibility with the Network for Environment and Weather Applications (NEWA) agricultural production tools. NEWA is a partnership between NYS Integrated Pest Management, Northeast Regional Climate Center, and Cornell University.	\$ 544,960.00	\$ 1,027,360.00	117
Track	Organization	Project Name	State Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
Track 3A: Healthy Soils NY: Soil Health practices sequester carbon, improve water quality and increase resiliency to the impacts of climate change.					
3A	Chenango SWCD	\$241,315 was awarded to Chenango County Soil and Water Conservation District to work with two farms to implement cover crops on over 1,200 acres. This project will help both farms to achieve 100% coverage of cover crops on their production acreage. The farms will also purchase an ExactRate fluid transfer systems for monitoring and controlling precise application of liquid fertilizer. Reducing synthetic fertilizer will reduce GHG emissions, improve nutrient management, and reduce fuel usage with less tractor passes on the fields with precise application.	\$ 241,315.00	\$ 441,434.05	24

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3A	Clinton SWCD	\$323,165 was awarded to Clinton County Soil and Water Conservation District to work with multiple dairy farms to hire custom applicator services for manure injection on 1,186 acres per year. Current practices broadcast manure on fields, so by injecting the manure into the soil the farm's will reduce GHG emissions and improve one farm nutrient cycling. The custom applicators provide equipment and labor allowing the farms to efficiently shift their management of manure application and improve nutrient management and soil health.	\$ 323,165.00	\$ 484,190.00	203
3A	Cortland SWCD	\$22,485 was awarded to Cortland County Soil and Water Conservation District to work with a tree farm and maple operation on an afforestation and agroforestry project. Planting 2 acres of beneficial tree species and providing proper protection through deer Exlosure fencing. Tree planting increases carbon sequestration. This project includes a new participant to SWCC programs.	\$ 22,485.00	\$ 34,041.00	12
3A	Delaware SWCD	\$402,328 was awarded to Delaware County Soil and Water Conservation District to work with 13 farms in the Susquehanna watershed planting cover crops annually for three years. Over 3,000 acres of cover crops will be implemented improving soil health and reducing GHG emissions. Farms will also conduct soil health testing to develop an understanding of soil carbon and nutrient levels at each farm.	\$ 402,328.00	\$ 618,516.00	64
3A	Erie SWCD	\$137,237 was awarded to Erie County Soil and Water Conservation District to work with a local farm to implement soil health management. The farm will implement manure transfer best management practices to reduce compaction and improve on-farm nutrient cycling and soil health.	\$ 137,327.00	\$ 178,983.20	29
3A	Franklin SWCD	\$169,375 was awarded to Franklin County Soil and Water Conservation District to implement soil health management. Farms will implement cover crops, practice reduced tillage best management, and manure transfer practices. This project includes a new participant to SWCC programs.	\$ 169,375.00	\$ 215,731.00	8

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3A	Genesee SWCD	\$561,289 was awarded to Genesee County Soil and Water Conservation District to work with a large vegetable farm to expend their current soil health practices to cover crop on every acre of cropland in the winter months to maximize the amount of carbon sequestration and retain nutrient in the soil. The project will also reduce the amount of synthetic fertilizer applied on farm by improving their nutrient management. This project includes a new participant to SWCC programs.	\$ 561,289.00	\$ 742,044.44	120
3A	Genesee SWCD	\$98,507 was awarded to Genesee County Soil and Water Conservation District to work with a dairy farm to improve their manure management application following their nutrient management plan. The farm has used a custom applicator for manure injection and has decided to make this their permanent management practice for manure application. The project will support the farm to implement this practice internally instead of hiring a service. The injection of manure will reduce GHG emissions, help the farm manage their manure, and improve on-farm nutrient cycling.	\$ 98,507.00	\$ 128,886.00	119
3A	Jefferson SWCD	\$990,060 was awarded to Jefferson County Soil and Water Conservation District to work with multiple local farms, including an organic producer, to implement soil health management. The farm will implement cover crops and reduced tillage best management practices. A no-till drill will be purchased for implementing cover crops.	\$ 990,060.00	\$ 1,473,496.20	504
3A	Lewis SWCD	\$855,209 was awarded to Lewis County Soil and Water Conservation District to work with a local farm to implement soil health management. The farm will implement manure transfer best management practices to reduce compaction and improve on-farm nutrient cycling and soil health.	\$ 855,209.00	\$ 1,449,786.00	347

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3A	Onondaga SWCD	\$67,931 was awarded to Onondaga County Soil and Water Conservation District to work with a grass-fed beef farm to implement a prescribed rotational grazing system to manage an overgrazing resource concern. A riparian buffer will help further reduce runoff and erosion. Fencing, water structure, animal trails, and forage planting will establish a system that will allow vegetation to recover after grazing improving soil health and carbon sequestration.	\$ 67,931.00	\$ 103,563.38	12
3A	Onondaga SWCD	\$485,022 was awarded to Onondaga County Soil and Water Conservation District to work with 11 farms in Otisco Lake and Onondaga Lake watersheds to implement cover crops on over 5,000 acres. Cover crops will help farms to reduce soil erosion by increasing the water infiltration rates and decrease fertilizer requirements. This project includes a new participant to SWCC programs.	\$ 485,022.00	\$ 636,923.10	116
3A	Saratoga SWCD	\$241,420 was awarded to Saratoga County Soil and Water Conservation District to work with a local farm to implement 1,500 acres of soil health management. The farm will implement cover crops and reduced tillage best management practices. A no-till drill will be purchased for implementing cover crops.	\$ 241,420.00	\$ 340,275.00	29
3A	Schoharie SWCD	\$307,629 was awarded to Schoharie County Soil and Water Conservation District to work with a local farm to implement soil health management with a prescribed grazing management plan, including fencing, an access road, and watering facilities best management practices. This project includes a new participant to SWCC programs.	\$ 307,629.00	\$ 385,854.00	151
3A	Seneca SWCD	\$267,452 was awarded to Seneca County Soil and Water Conservation District to work with multiple farmers to implement a suite of conservation practices across 1,400 acres. Integrating cover crops, establishing field borders, promoting conservation cover, and applying mulching techniques, this project will diminish runoff and soil erosion. Practices will also enhance the soil's organic matter, moisture retention, and structural integrity making crop fields more resilient during storm events. This project includes a new participant to SWCC programs.	\$ 267,452.00	\$ 369,734.33	89

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3A	St Lawrence SWCD	\$312,925 was awarded to St Lawrence County Soil and Water Conservation District to work with a family-owned dairy to purchase an interseeder for cover crop implementation. The use of the interseeder will allow cover crops to be planted into standing crops of corn. This will give the cover crop more time to grow before winter and the farm won't miss their window to plant the cover crop by planting before the corn is harvested. The interseeder will also reduce trips through the field by simultaneously applying fertilizer and herbicide with the cover crop planting. Reduced trips through the field reduced GHG emissions from equipment. This project includes a new participant to SWCC programs.	\$ 312,925.00	\$ 445,033.50	81
3A	St Lawrence SWCD	\$66,014 was awarded to St Lawrence County Soil and Water Conservation District to work with a local farm to implement soil health management. The farm will implement manure transfer best management practices to reduce compaction and improve on-farm nutrient cycling and soil health.	\$ 66,014.00	\$ 95,162.00	35
3A	Suffolk SWCD	\$118,763 was awarded to Suffolk County Soil and Water Conservation District to work multiple farms on soil health management. Farms will implement cover crops and reduced tillage best management practices. Multiple no-till drills will be purchased for implementing cover crops.	\$ 118,763.00	\$ 170,730.05	125
3A	Ulster SWCD	\$166,400 was awarded to Ulster County Soil and Water Conservation District to work multiple farms including organic producers on soil health management. Farms will implement cover crops and reduced tillage best management practices. A no-till drill will be purchased for interseeding cover crops. This project includes a new participant to SWCC programs.	\$ 166,400.00	\$ 253,640.50	228

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3A	Warren SWCD	\$32,695 was awarded to Warren County Soil and Water Conservation District to work with an urban community gardens located in rural settings, where they are located within low income housing or service mental health facilities. Best management practices will be implemented for water conservation/availability, surface water runoff, soil testing, pest management, and soil health. Mulching can aid with water conservation and soil health. Free educational opportunities will be provided on soil health and conservation practices. This project will support community and connections to agriculture. This project includes a new participant to SWCC programs.	\$ 32,695.00	\$ 43,429.96	5
3A	Wayne SWCD	\$63,328 was awarded to Wayne County Soil and Water Conservation District to work with a local farm to implement soil health management with a prescribed management plan. The farm will implement fencing, watering facilities and pasture and hay planting best management practices. This project includes a new participant to SWCC programs.	\$ 63,328.00	\$ 79,328.00	17
3A	Wayne SWCD	\$53,743 was awarded to Wayne County Soil and Water Conservation District to work with a local farms to implement soil health management. Farms will implement cover crops, reduced tillage and pollinator habitat best management practices. A no-till drill will be purchased for implementing cover crops.	\$ 53,743.00	\$ 67,004.68	11
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Track 3B: Soil Health Projects: Soil Health practices sequester carbon, improve water quality and increase resiliency to the impacts of climate change.					
3B	Allegany SWCD	\$305,650 was awarded to Allegany County Soil and Water Conservation District to work with four farms to implement a soil health conservation system that will plant 2,570 acres of cover crops and no-till 2,490 acres. The implementation of cover crops and no-till will help make the farms more resilient to the impacts of drought and increased rainfall intensity while increasing the farms' carbon sequestration capacities and decreasing emissions. This project includes a new participant to SWCC programs.	\$ 305,650.00	\$ 399,406.00	288

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3B	Allegany SWCD	\$75,550 was awarded to Allegany County Soil and Water Conservation District to work with a farm to implement a soil health conservation system that will convert 600 acres total over the three years to a no-till planting system. This initial project will help the farm develop a no-till system on 600 acres before converting the rest of the farm to no-till. This project will also plant 600 acres in total of cover crops, increasing the organic matter of the soils. These practices will give the soil a higher water holding capacity and help reduce the impact of drought on the farm, making it more resilient to climate change. This project includes a new participant to SWCC programs.	\$ 75,550.00	\$ 97,579.00	361
3B	Allegany SWCD	\$663,725 was awarded to Allegany County Soil and Water Conservation District to work with a farm to implement a soil health conservation system that will convert 6,000 acres total over the three year life of the project to a no-till planting system. This will enable the farm to develop and refine a no-till system for the rest of the farm. This project will also utilize cover crops in the no-till system. The combined practices will reduce nitrogen and soil loss to both surface and groundwater, increasing the soil's organic matter and water-holding capacity, in turn making the farm more resilient to climate change.	\$ 663,725.00	\$ 880,090.00	430
3B	Allegany SWCD	\$46,230 was awarded to Allegany County Soil and Water Conservation District to work with a farm to implement a soil health conservation system that will introduce cover crops on 450 acres. Introducing cover crops will reduce nitrogen leaching and increase soil organic matter. This project will improve the farm's soil health, reduce nitrogen fertilizer usage, and help the farm better withstand the effects of climate change.	\$ 46,230.00	\$ 59,281.50	30

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3B	Cayuga SWCD	\$2,119,582 was awarded to Cayuga County Soil and Water Conservation District to work with 14 farms to implement a soil health conservation system that will plant 22,896 acres of cover crops. The implementation of these BMP's will decrease soil erosion, reduce runoff, enhance soil health, increase organic matter and reduce greenhouse gas emissions. Cover crops will be implemented as a carbon sink: atmospheric carbon will be trapped in the cover crop and incorporated back into the annual cropping system. The soil's resiliency will increase utilizing these BMP's, components such as organic matter, nutrient retention, moisture capacity, soil stability and carbon sequestration will increase with cover crops.	\$ 2,119,582.00	\$ 2,763,864.00	723
3B	Cortland SWCD	\$18,970 was awarded to Cortland County Soil and Water Conservation District to work with a crop farm to implement a soil health conservation system that will plant 90 acres of cover crops. This project builds on the success of cover crops on other areas of the farm such as less soil erosion, improved soil fertility, fertilizer savings, improved yields, and better water retention. These benefits will enhance the farm's economic and environmental resiliency and reduce the farm's susceptibility to climate change impacts from drought and intense storm events. This project includes a new participant to SWCC programs.	\$ 18,970.00	\$ 23,040.40	462
3B	Essex SWCD	\$329,724 was awarded to Essex County Soil and Water Conservation District to work with two farms to implement a broad soil health conservation system across 2,520 acres total of agricultural fields in the Lake Champlain Basin. The incorporation of cover crops and reduced tillage will help control soil erosion, reduce runoff volumes, enhance soil health, and improve the productivity of the land. This project includes a new participant to SWCC programs.	\$ 329,724.00	\$ 424,147.20	324

CRF Round 8 Project Descriptions

Track	Organization	Project Name	Federal Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
3B	Genesee SWCD	\$982,893 was awarded to Genesee County Soil and Water Conservation District to work with eight farms to implement a soil health conservation system that will cover 12,422 acres with soil health practices that include basic cover crop, multi-species cover crop, and residue management - no-till/strip-till. The proposed soil health systems will increase water holding capacity of soils, sequester carbon in the soil, reduce the use of synthetic nitrogen, reduce rainfall runoff and soil erosion, suppress weeds, and reduce fuel consumption in some cases. This project includes a new participant to SWCC programs.	\$ 982,893.00	\$ 1,300,086.55	33
3B	Genesee SWCD	\$494,742 was awarded to Genesee County Soil and Water Conservation District to work with two dairy farms to implement a soil health conservation system that will incorporate multi-species cover crops on over 4,500 acres. The system will help the farms adapt to both extreme wet and dry conditions that are becoming increasingly more frequent with a changing climate. The planned soil health system will improve water retention and infiltration in the farms' soils to reduce flooding and ponding during periods of extremely wet weather. The cover crops will also improve the water holding capacity of the farms' soils, which will mitigate impacts from drought conditions.	\$ 494,742.00	\$ 653,016.00	102
3B	Niagara SWCD	\$137,925 was awarded to Niagara County Soil and Water Conservation District to work with six farms to implement a soil health conservation system that will incorporate cover crops on 1,500 acres. A cover crop system will help all six farms control soil erosion, reduce runoff volumes, enhance soil health, and improve the productivity of the land. The cover crops will also improve the water holding capacity of the farms' soils, which will mitigate impacts from drought conditions, and will also help to reduce the farms' greenhouse gas emissions. This project includes a new participant to SWCC programs.	\$ 137,925.00	\$ 180,607.00	95

CRF Round 8 Project Descriptions

Track	Organization	Project Name	Federal Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
3B	Seneca SWCD	\$1,392,000 was awarded to Seneca County Soil and Water Conservation District to work with eight farms to implement a soil health conservation system that will incorporate cover crops on 13,520 acres. The cover crop system will decrease runoff and erosion while improving organic matter, soil structure, moisture, and overall soil health. Cover crops will act as a carbon sink, sequestering atmospheric carbon and greenhouse gases into the soil, and contributing to the farmers' cropping systems. This project includes a new participant to SWCC programs.	\$ 1,392,000.00	\$ 1,888,920.00	732
3B	Tioga SWCD	\$128,115 was awarded to Tioga County Soil and Water Conservation District to work with a dairy farm to implement a soil health conservation system that will incorporate cover crops on 1,200 acres. Cover crops will both fix nitrogen for future crops and combat soil compaction with a dense root system. The cover crop also will provide the typical soil health benefits of living roots, physical protection from erosion, and sequestering atmospheric carbon and greenhouse gases into the soil. This system will help in creating a more sustainable farm business both financially and to adapt to weather climate extremes, helping them be profitable as they go forward.	\$ 128,115.00	\$ 170,390.00	3
3B	Wayne SWCD	\$120,560 was awarded to Wayne County Soil and Water Conservation District to work with a farm to implement a soil health conservation system that will incorporate cover crops on 600 acres. This system will help the farm be more resilient and mitigate the risks of increasing large storms and provide infrastructure that will help the farm adapt to new climate realities. Cover crops and the associated BMPs reduce the farm's carbon emissions, reduce erosion, and increase the soil's resiliency to extreme weather conditions.	\$ 120,560.00	\$ 156,942.00	11

CRF Round 8 Project Descriptions

Track	Organization	Project Name	Federal Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
Track 4: Agricultural Forestry Management: supports healthy productive forest management and afforestation on agricultural lands for carbon sequestration and resiliency.					
4	Cortland SWCD	\$13,778 was awarded to Cortland County Soil and Water Conservation District to work with a dairy farm to implement a forestry/agroforestry system. This system will convert pasture into forest and a nut tree orchard, and will include the creation of a permanent riparian forest buffer. These activities will prevent erosion while sequestering carbon in growing trees, and improve the soil's moisture holding capacity, and ability to drain, all making the farm more resilient to storms and runoff.	\$ 13,778.00	\$ 13,778.00	58
4	Jefferson SWCD	\$360,620 was awarded to Jefferson County Soil and Water Conservation District to work with four farms to diversify the farms' properties through afforestation practices and implementation of a forestry/agroforestry system. Increasing the diversity of tree coverage on underutilized farmland will make these farms more resilient to a changing climate and increase carbon sequestration and storage. This project includes a new participant to SWCC programs.	\$ 360,620.00	\$ 382,530.00	459
4	Madison SWCD	\$18,855 was awarded to Madison County Soil and Water Conservation District to work with a farm to implement a forestry/agroforestry system. The project will reintroduce native hardwood species into well drained mesic soils, reclaiming an abandoned hayfield into a natural Maple-Beech-Birch Forest and increasing wildlife habitat and carbon sequestration. This project includes a new participant to SWCC programs.	\$ 18,855.00	\$ 28,146.30	5
4	Ontario SWCD	\$31,505 was awarded to Ontario County Soil and Water Conservation District to work with a farm to implement a forestry/agroforestry system. The project involves converting cropland to forest land while incorporating native species grasses around seedlings to be managed as pollinator and beneficial insect habitat. Introducing native hardwood species will increase the farm's ability to sequester carbon and mitigate climate change, and the project will serve as a demonstration project to spread awareness of beneficial agroforestry practices. This project includes a new participant to SWCC programs.	\$ 31,505.00	\$ 34,146.65	21

CRF Round 8 Project Descriptions

Track	Organization	Project Name	Federal Funding Requested	Total Project Amount	GHG Reduction Estimation (MTCO2 eq/yr.)
4	Warren SWCD	\$49,550 was awarded to Warren County Soil and Water Conservation District to work with a farm to implement a forestry/agroforestry system. The primary focus for this project is to re-establish a diverse forest stand that can be used for agricultural purposes as well as support the native ecology within the area, including pollinators. Practices include managing for timber stand improvement, invasive species, and supporting regeneration, and promote biodiversity within the stand. This project includes a new participant to SWCC programs.	\$ 49,550.00	\$ 62,549.00	11
			\$ 33,159,336.00	\$ 45,186,255.56	120,223

Track		Awarded
1A	Livestock Management	\$ 6,677,734.00
1B	Cover and Flare Projects	\$ 10,203,338.00
2	Adaptation & Resiliency	\$ 3,003,908.00
3A	Healthy Soils NY	\$ 5,984,382.00
3B	Soil Health Projects	\$ 6,815,666.00
4	Agricultural Forestry Management	\$ 474,308.00
		\$ 33,159,336.00