

New York Chesapeake Bay Restore Clean Water Action Items

2022-2023 Programmatic and Numeric Milestones – 2023 Final Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
<b>Agricultural Sector</b>					
12/31/2023	NYS funding for Comprehensive Nutrient Management Plans (CNMPs) for small farms through the Dairy Acceleration Program (DAP) (P.70)	Implement two rounds of DAP to cost-share farm business planning and CNMP development/updates for dairy farms with fewer than 300 cows. This program is funded through the state Environmental Protection Fund (EPF). \$700,000 of statewide funding is proposed in the SFY 2020-2021 budget. BMPs implemented in the watershed through this program will be reported on an annual basis.	Cornell University, NYS Department of Environmental Conservation (NYS DEC), NYS AGM/ NYS SWCC	On track	<p><b>2022 Update:</b> During 2022, DAP funded 13 new CNMPs at \$75,564 and 13 updated CNMPs at \$55,089.</p> <p><b>2023 Update:</b> During 2023, DAP funded 13 new CNMPs at \$50,751 and 4 updated CNMPs at \$17,741.</p>
12/31/2023	Compliance and enforcement of CAFO permits (P.33)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	Milestone Met	<p><b>2022 Update:</b> During 2022, eight CAFO inspections were completed in the watershed. DEC responded to one public complaint and issued no notice of violations.</p> <p><b>2023 Update:</b> During 2023, ten CAFO inspections were completed in the watershed. No notices of violation were issued.</p>
12/31/2023	NYS funding for agricultural technical assistance through the Agricultural Environmental Management (AEM) Program (P.65)	Implement two years of the AEM Base Program, supporting technical assistance and BMP system implementation by Soil & Water Conservation Districts through the AEM Tiers: Tier 1: Resource Inventory Tier 2: Environmental Assessment Tier 3: Conservation Planning	NYS Department of Agriculture and Markets (NYS AGM)/NYS Soil and Water Conservation	Completed	<p><b>2022 Update:</b> This milestone report summarizes work through the AEM Tiers completed by SWCDs in the USC area using funding from AEM Base Program Round 17 (2022-2023). Except when specifically noted, all data represent accomplishments within the Chesapeake Bay Watershed HUC12s. This work is in addition to accomplishments documented in prior milestone reports.</p>

<sup>1</sup> As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.

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		<p>Tier 4: BMP System Implementation                      Tier 5: Evaluation of Implemented Practices or Plan Update                      This program is funded through New York’s Environmental Protection Fund (EPF). During the last milestone period, the AEM Base Program provided funding for approximately \$2.8 million worth of technical assistance and \$841,000 worth of cost-share for BMP system implementation for Soil and Water Conservation Districts with substantial area in the watershed.</p>	<p>Committee (NYS SWCC)</p>		<p><b>AEM Base Program</b></p>	<p><b>Round 17 (2022-2023)</b></p>
					<p>Districts Substantial Area in the Chesapeake Watershed</p>	<p>17</p>
					<p>Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5</p>	<p>\$3.2M*</p>
					<p>Total Cost-Share Funding to Implement Tier 4 BMP Systems on 66 Farms</p>	<p>\$1.6M*</p>
					<p><b>BMP Systems Planned for Implementation:</b></p> <ul style="list-style-type: none"> <li>• Erosion Control - Structural System</li> <li>• Livestock Heavy Use Area Runoff Management System</li> <li>• Petroleum and Oil Products Storage System</li> <li>• Prescribed Rotational Grazing System</li> <li>• Riparian Buffer System</li> <li>• Silage Leachate Control and Treatment System</li> <li>• Soil Health System</li> <li>• Stream Corridor and Shoreline Management System</li> <li>• Waste Storage and Transfer System</li> </ul>	
					<p>*includes AEM Base Tech dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.</p>	
					<p><b>2023 Update:</b> This milestone report summarizes work through the AEM Tiers completed by SWCDs in the USC area using funding from AEM Base Program Round 18 (2023-2024). Except when specifically noted, all data represent accomplishments within the Chesapeake Bay Watershed HUC12s. This work is in addition to</p>	

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					<p>accomplishments documented in prior milestone reports.</p> <table border="1" data-bbox="1465 386 1990 719"> <thead> <tr> <th data-bbox="1465 386 1822 456">AEM Base Program</th> <th data-bbox="1829 386 1990 456">Round (2023-2024)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1465 456 1822 526">Districts Substantial Area in the Chesapeake Watershed</td> <td data-bbox="1829 456 1990 526">17</td> </tr> <tr> <td data-bbox="1465 526 1822 618">Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5</td> <td data-bbox="1829 526 1990 618">\$3.7M</td> </tr> <tr> <td data-bbox="1465 618 1822 719">Total Cost-Share Funding to Implement Tier 4 BMP Systems on Farms</td> <td data-bbox="1829 618 1990 719">\$3.2M</td> </tr> </tbody> </table> <p>*includes AEM Base Tech dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.</p>	AEM Base Program	Round (2023-2024)	Districts Substantial Area in the Chesapeake Watershed	17	Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5	\$3.7M	Total Cost-Share Funding to Implement Tier 4 BMP Systems on Farms	\$3.2M
AEM Base Program	Round (2023-2024)												
Districts Substantial Area in the Chesapeake Watershed	17												
Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5	\$3.7M												
Total Cost-Share Funding to Implement Tier 4 BMP Systems on Farms	\$3.2M												
12/31/2023	NYS funding for agricultural practice implementation through the Agricultural Nonpoint Source Abatement and Control Program (AgNPS) (P.66)	Implement two rounds of the NYS Agricultural Nonpoint Source Abatement and Control Program (AgNPS). This program is funded through New York’s Environmental Protection Fund (EPF). \$18 million of statewide funding is proposed in the 2021-2022 budget. During the last milestone period a total of \$7.4 million was awarded to implement BMPs on 61 farms in the watershed. Installation of BMPs implemented in the watershed through this program will be reported on an annual basis.	NYS AGM/ NYS SWCC	Completed	<p><b>2022 Update:</b> Round 28 projects was awarded in October 2022, which included funding for the following BMPs within the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> <li>• Waste Storage Facility (3 systems)</li> <li>• Riparian Forest Buffer (7 systems)</li> <li>• Heavy Use Area Protection (4 systems)</li> <li>• Livestock Exclusion Fencing (1 system)</li> <li>• Rotational Grazing (2 systems)</li> <li>• Soil Conservation – Structural (2 systems)</li> <li>• Stream Corridor Management (2 systems)</li> </ul> <p>Not including farmer cost share, over \$4.6 million in State funding was awarded for projects on 14 farms. Round 29 of the AgNPS program is expected to be released in winter 2023.</p> <p><b>2023 Update:</b> The ranked list of AgNPS Round 29 projects was awarded in October 2023, which includes funding for the following BMPs within the Chesapeake Bay watershed:</p>								

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					<ul style="list-style-type: none"> <li>• Waste Storage Facility (12 systems)</li> <li>• Riparian Forest Buffer (11 systems)</li> <li>• Silage Leachate (2 system)</li> <li>• Heavy Use Area Protection (5 systems)</li> <li>• Rotational Grazing (1 systems)</li> <li>• Access Control (2 system)</li> <li>• Soil Health System (1 systems)</li> </ul> <p>Not including farmer cost share, over \$7.2 million in State funding was awarded for projects on 18 farms. Round 30 of the AgNPS program is expected to be released in fall of 2024.</p>
12/31/2023	NYS funding for agricultural practice implementation through the Climate Resilient Farming Program (P.67)	Implement two rounds of the program. Program funds are available for projects that mitigate the impact of agriculture on climate change and enhance the on-farm adaptation and resiliency to projected climate conditions. This program is funded through New York’s Environmental Protection Fund (EPF). \$8 million of statewide funding is available for CRF Round 6 in 2022. BMPs implemented in the watershed through this program will be reported on an annual basis.	NYS AGM/ NYS SWCC	Completed	<p><b>2022 Update:</b> Round 6 of the Climate Resilient Farming Program was awarded in September 2022, including the following BMPs in the Chesapeake Watershed:</p> <ul style="list-style-type: none"> <li>• Riparian Forest Buffer (3 systems)</li> <li>• Stream Corridor and Shoreline Management System (3 systems)</li> <li>• Rotational Grazing (1 system)</li> <li>• Soil Conservation System – Structural (1 system)</li> <li>• Soil Conservation System – Cultural (4 systems)</li> </ul> <p>Not including farmer cost share, over \$1.3 million was awarded for projects on 11 farms in the Chesapeake Watershed. Round 7 of the CRF Program is expected to be released in winter 2023.</p> <p><b>2023 Update:</b> Round 7 of the Climate Resilient Farming Program was awarded in November 2023, including the following BMPs in the Chesapeake Watershed:</p> <ul style="list-style-type: none"> <li>• Manure separation and storage cover (1 system)</li> <li>• Manure Transfer (1 system)</li> </ul>

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					<ul style="list-style-type: none"> <li>• Irrigation water management (4 systems)</li> <li>• Riparian Forest Buffer (4 systems)</li> <li>• Stream Corridor and Shoreline Management System (1 systems)</li> <li>• Silage leachate (2 systems)</li> <li>• Water recycling and collection (1 system)</li> <li>• Soil Conservation System – Structural (1 system)</li> <li>• Soil Health System – Cultural (4 systems)</li> </ul> <p>Not including farmer cost share, over \$1.9 million was awarded for projects on 11 farms in the Chesapeake Watershed. Round 8 of the CRF Program is expected to be released in winter 2024.</p>
12/31/2023	Cover Crop Implementation Program (P.70)	DEC executed an amended contract to extend the current Cover Crop Implementation Program for a fifth year in 2022. NYSDEC is targeting 3,500 acres of cover crops for a total of 14,500 acres during the five years of implementation. During Year 4 of the program, 13,369 acres of cover crops were implemented in the watershed.	Upper Susquehanna Coalition (USC)	Completed	<p><b>2022 Update:</b> A total of 13,538.22 acres of cover crops were implemented in the fall of 2022 as a result of the Cover Crop Implementation Program. A total of 113 farms participated across 12 counties.</p> <p><b>2023 Update:</b> A total of 16,455.77 acres of cover crops were implemented in the fall of 2023 as a result of the Cover Crop Implementation Program. A total of 115 farms participated across 12 counties.</p>
12/31/2023	BMP data collection and reporting (P.62)	Collect agriculture BMP data following the Agricultural Environmental Management approach and using USC's online data management system to collect farm BMP data and convert to NEIEN-compliant format for the 2022 and 2023 Progress Runs. BMP data collection is supported by	USC	Completed	<p><b>2022 Update:</b> 2022 Agricultural BMP data was collected member SWCD's and input into the USC's AEM Online Tool for submission to the Chesapeake Bay Model via the NEIEN Node. 2022 Progress data was submitted via the NEIEN on September 1<sup>st</sup>, October 19<sup>th</sup> and the final submission on November 29<sup>th</sup> ahead of the December 1<sup>st</sup>, 2022 deadline. There were no NEIEN errors found during any of the submissions.</p>

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		Chesapeake Bay Implementation Grant Funding (CBIG).			<b>2023 Update:</b> 2023 Agricultural BMP data was collected member SWCD’s and input into the USC’s AEM Online Tool for submission to the Chesapeake Bay Model via the NEIEN Node. 2023 Progress data was submitted via the NEIEN on September 5 <sup>th</sup> , September 14 <sup>th</sup> , September 15 <sup>th</sup> , October 12 <sup>th</sup> and the final submission on November 17 <sup>th</sup> ahead of the December 1st, 2023 deadline. The only error that was found was an issue within NEIEN that incorrectly flagged lifespans for stream channel stabilization. This error was fixed by working with the CAST Team.
12/31/2023	Increase capacity of Reporting/Verification program, Enhanced BMP reporting (P.79-80) through the development of mobile application for annual practice reporting and verification	Using 2020 WIP assistance funds, the USC will oversee the development of a mobile “app” that will be used on a farm-by-farm basis either by the landowner or with assistance from their Soil and Water Conservation District to assist with reporting annual agricultural practices including Cover Crops, Tillage Practices, Precision Feed Management, Manure Incorporation, and Nutrient Management.	USC, NYS DEC	Delayed	<b>2022 Update:</b> The USC had secured assistance through the Tioga County GIS specialist for the development of this tool. This tool will be developed utilizing ArcGIS Online and Survey 123. The USC is currently in the process of acquiring a contractor to have the application developed.  <b>2023 Update:</b> The USC continues to work on development of a Record Keeping Application that will assist both the farm and the counties in implementation and reporting. The USC Ag Coordinator is currently exploring other options for assistance on the record keeping app due to a roadblock with the original development.
12/31/2023	Increase capacity for agricultural BMP verification (P.79-80)	Implement and refine verification procedures for agricultural BMPs in the Chesapeake Bay watershed. Any updates to verification procedures will be reflected in New York’s Nonpoint Source QAPP on an annual basis as needed. Continue to evaluate	USC, NYS DEC	Completed	<b>2022 Update:</b> The random sampling selection process was completed for 2023, with 139 farms selected, which encompasses at least 238 individual practices. There were also 10 stream, 10 wetlands, and 2 urban buffers that were verified. These verification lists were sent out to member counties on November 22, 2022. All verification will be due by June 30, 2023.

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		program to be sure that all BMP's are verified through "Whole Farm Verification" prior to the end of their lifespan. BMP verification is supported by Chesapeake Bay Implementation Grant Funding (CBIG). Discovered legacy BMPs should be reported if implementation, maintenance, and inspection years are accurate or estimated to the best of the data source's ability. Discovered legacy BMPs should be reported if implementation, maintenance, and inspection years are accurate or estimated to the best of the data source's ability.			<b>2023 Update:</b> Based on the random sampling selection completed for 2023, with 139 farm sites were verified. The USC added 22 farms to pick up practices that are expiring in the model by 2025 to ensure these are verified. 2023 should be the last year additional sites will need to be added. The USC had an additional 252 Resource Improvement Practices being reviewed in 2023. In addition to the farm sites, 10 stream, 11 wetland and 2 urban buffers were verified. During the milestone period, all the above BMP verifications were completed for agricultural, stream, wetlands, and urban buffer BMPs.
12/31/2023	CAFO BMP data collection program (P.33)	Continue BMP data collection program for CAFO farms by combining NYSDEC compliance inspections with SWCD data collection and verification visits. Data collected will include both cost-shared and non-cost-shared BMPs to the extent possible to generate a complete record of implementation on CAFO farms. The CAFO BMP data collection program is supported by Chesapeake Bay Implementation Grant Funding (CBIG).	NYS DEC, USC	Completed	<b>2022 Update:</b> USC member counties participated in 15 CAFO inspections in the watershed during 2022. USC Staff document practice implementation on these farms and information is reported into the USC database, as outlined in the QAPP. During this year, no issues were reported.  <b>2023 Update:</b> USC member counties participated in 16 CAFO inspections in the watershed during 2023. USC Staff document practice implementation on these farms and information is reported into the USC database, as outlined in the QAPP. During this year, no issues were reported.
12/31/2023	Agricultural Environmental	Deliver outreach programs for farmers and agricultural professionals	USC, NYS AGM,	Completed	<b>2022 Update:</b> USC coordinated and planned another series of Watershed Wednesdays in October and November with the assistance of

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	Management (AEM) Outreach and Education (P.34)	in the watershed about agricultural environmental management, including Cornell Cooperative Extension, Soil & Water Conservation District, NYS AGM, and NRCS workshops as well as two years of multi-day trainings, including: Conservation Skills Workshop, Certified Crop Advisor (CCA) Training, and Water Quality Symposium.	Cornell University, NRCS		<p>OCCA held 8 sessions. All USC teams developed content and participated in outreach events held throughout the watershed geared towards ag producers and interested landowners. The USC also completed four quarterly newsletters with project and program opportunities as well as numerous Facebook posts and website updates. USC Staff assisted with coordination of Conservation Skills workshops as well as participated in the annual Water Quality Symposium held in March.</p> <p>The following events also took place during the milestone period:</p> <ul style="list-style-type: none"> <li>• 2022 virtual Water Quality Symposium in March 2022 (~250 SWCD staff and partner participants);</li> <li>• Various Riparian Forest Buffer Trainings;</li> <li>• CNMP Training in April 2022 (75 participants);</li> <li>• AEM Field Training Series in June and July 2022 (5 on-farm locations across the state, with 3 involving SWCD staff working in the Chesapeake Watershed; 55 participants);</li> <li>• Five Climate Resilient Farming virtual workshops to evaluate and expand how the program could further advance CLCPA and water quality goals in June and July 2022 (approx. 250 participants);</li> <li>• Conservation Equipment Training at Empire Farm Days in August 2022 (40 participants);</li> <li>• New CAFO SPDES General Permit Webinar in August 2022 (140 participants);</li> <li>• 2022 Conservation Skills Workshop in September 2022 (~200 participants)</li> </ul>



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					<ul style="list-style-type: none"> <li>• Manure Management for Water Quality, GHGs, and Renewable Energy at Conservation Skills Workshop in September 2022 (47 participants);</li> <li>• AEM Forest Conservation Class at Conservation Skills Workshop in September 2022 (30 participants);</li> <li>• Practical Principles of Pasture Planning at Conservation Skills Workshop in September 2022 (30 participants);</li> <li>• 590 Field Risk Assessment Skills at Conservation Skills Workshop in September 2022 (44 participants);</li> <li>• Nutrient Management and Soil Health Planning Skills at Conservation Skills Workshop in September 2022 (44 participants);</li> <li>• AEM and Farmland Protection Program webinar in November 2022 (45 participants);</li> <li>• Northeast Region CCA Conference in November and December 2022 (Basic and Advanced Tracks; 150 participants); and</li> <li>• SWCD Managers Meeting in December 2022 (120 participants).</li> </ul> <p><b>2023 Update:</b> All USC teams developed content and participated in outreach events held throughout the watershed geared towards ag producers and interested landowners. The USC also completed three quarterly newsletters (combining the winter and spring issues) with project and program opportunities as well as numerous Facebook posts and website updates. Key 2023 website updates include the addition of an Urban Nutrient Management page, a USC</p>

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					<p>Grazing Initiative page, pages for the 2023 Retreat and Watershed forum, and a page describing the Water Quality Program and providing program application. The USC developed and printed copies of the 2022 Annual Report. USC Staff assisted with coordination of Conservation Skills workshops as well as participated in the annual Water Quality Symposium held in March. The following events also took place during the milestone period:</p> <ul style="list-style-type: none"> <li>• Tioga County SWCD staff planned and held a Soil Health Workshop in February 2023 for farmers (39 participants);</li> <li>• 2023 Water Quality Symposium in March 2023 (250 SWCD staff and partner participants);</li> <li>• Various Riparian Forest Buffer Trainings;</li> <li>• Various Pasture Walk Trainings;</li> <li>• CNMP Training in April 2023 (31 participants);</li> <li>• Webinar for SWCDs, NRCS, PEs, and AEM Certified Planners on the Constructions Stormwater Permit and practices on March 30, 2023 (100 participants);</li> <li>• NYS AGM offered a 4R Nutrient Management Field Day in August 2023;</li> <li>• USC, Southern Tier 8, Binghamton University, NYS DEC, Choose Clean Water Coalition and Otsego County Conservation Association partnered for the Upper Susquehanna Watershed Forum October 2023 (158 participants);</li> <li>• USC, Alliance for the Chesapeake Bay, and the Local Government Advisory committee held a tour for municipal officials and project examples in the watershed (21 participants);</li> </ul>

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					<ul style="list-style-type: none"> <li>• 2023 Conservation Skills Workshop in September 2023 (~200 participants)</li> </ul>
12/31/2023	Pursue additional funding sources for agricultural implementation (P.85-86)	<p>USC coordinator(s) and team leader(s) along with SWCD will review and submit grant applications to appropriate funding sources to further the USC mission in our focus areas, implementation efforts for the CB program and staff support. Funding opportunities may include but not limited to NFWF, RCPP, and state funding sources.</p>	USC, NYS DEC	Completed	<p><b>2022 Update:</b> USC actively pursued and submitted several grant applications in 2022 to support USC member programming, project planning and implementation in all focus areas (ag, streams, wetlands and buffers). The USC was part of a NFWF Climate Smart Commodity Program for the CB Watershed, unfortunately, the \$9 million proposal was not awarded. The USC submitted a request for funds (\$1.58 million) to Congressional Representatives to support CB TMDL BMPs. The request was approved in December of 2022. The USC applied for and received an extension and increase the award to the NRCS CTA Engineering Agreement, which supports engineering workload in the watershed. The USC submitted and awarded Arbor Day Foundation funding for 2023 and applied to and received funding for One Tree Planted to assist with volunteer plantings and outreach. The USC submitted proposals to the NFWF SWG funding pool and was awarded \$500,000 to develop afforestation planning and implementation in the watershed. The USC submitted an NFWF INSR proposal for \$1 million, but have not received work of funding approval. The USC submitted a grant to SRBC Flood Mitigation program for Chenango Greenway project and was awarded (details provided below). The USC Completed a scope of work with NYSDEC for continuation of the State Buffer Program funding program.</p>

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					<p><b>2023 Update:</b> USC actively pursued and submitted several grant applications in 2023 to support USC member programming, project planning and implementation in all focus areas (ag, streams, wetlands and buffers).</p> <p>The USC was awarded the following grants applied for during the last milestone period:</p> <ul style="list-style-type: none"> <li>• The USC was awarded funding for the NFWF INSR proposal for \$1 million to support the USC’s Water Quality Program.</li> <li>• USC was awarded funding through NFWF Small Watershed Grant Program for landscape wide afforestation. This funding will support pilot projects for forest establishment throughout the landscape within the watershed. The grant amount applied for was \$500,000 with USC member counties providing match from their local tree and shrub sales. Goals included planting 30,000 plantings in upland areas, 200 trees within municipal areas, 7 acres of riparian plantings, and reaching 500 people about tree planting.</li> <li>• SRBC Consumptive Use Mitigation Grant program for \$440,734 to support wetland, buffer, and stream corridor rehabilitation in Tioga County. Application and contract were successful and design is underway.</li> <li>• USC was notified of a \$1 million award through the NYS EPF, these funds will support capacity within the USC and project implementation of the Phase III WIP. The USC is working with DEC contracting of these funds.</li> </ul>

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					<ul style="list-style-type: none"> <li>• The USC was awarded \$1,507,605 in funding under the Federal Community Project Funding through EPA – STAG – Clean Water State Revolving Fund. This was funding earmarked in the federal budget with support from Congresswoman Claudia Tenney, Senator Kirsten Gillibrand, and Senator Charles Schumer. This funding will support Riparian Buffer Implementation, Wetland Restoration, Stream Corridor Restoration and Stream Corridor Protection.</li> </ul> <p>During the milestone period the USC applied for the following grants:</p> <ul style="list-style-type: none"> <li>• USC submitted a NFWF proposal to the CB WILD Funding under the technical assistance pot of funding to support the Butternut Valley Alliance and the restoration work in the Butternut Creek Watershed, this proposal was not funded.</li> <li>• USC submitted an Afforestation proposal to NYSSWCC for \$1.2 million to Pilot a State Afforestation Program in the Upper Susquehanna Watershed.</li> <li>• USC supported a proposal submitted by the American Farmland Trust to the NY CIG grant for Advancing Adoption of Cover Crop Management and Planting Green through on Farm Evaluations in NY. The USC requested \$250, 000 and unfortunately the proposal was not selected.</li> <li>• USC submitted a request for funds to NYSDEC for \$1.4 million to support the USC Buffer Program, this includes implementation and stewardship components along with SPIP for</li> </ul>

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					<p>CREP enrollments. This proposal would run from 2023-2026 working on the contract with DEC as well as reporting requirements.</p> <ul style="list-style-type: none"> <li>• USC submitted another Arbor Day Foundation Proposal for trees to support implementation in 2024, for a requested \$280,000.</li> <li>• USC completed an application for contribution agreement with NRCS for CREP and Forestry practice support. The agreement was approved for a total amount of \$200,000 and will support staff in the watershed for CREP and EQIP forestry practices this will be a 5-year agreement.</li> <li>• Cortland County Ag Team Leader reported that they submitted 13 separate grant applications to assist landowners and one municipality during the reporting period to that state Ag Nonpoint Source Grant Program, Climate Resilient Grant program and Water Quality Incentives Program.</li> <li>• Steuben County reported submitting a CRF application as well as a WQIP grant to support Bennetts Creek Streambank restoration project.</li> <li>• USC submitted a proposal to support wetland and tree canopy goals to NYSDEC for possible funding under the RFP FY 23 Advancement of Partnership Forestry Buffers, Urban Trees and Wetland Goals. The request for \$300,000.</li> </ul>
10/31/2023	Increased incentives for producers, expand assistance for maintenance of riparian buffers (P. 71-72) through the “Comprehensive	In 2021, NYSDEC allocated an additional \$110,000 to the original \$500,000 of CBIG funding as a continuation of the CREP state incentive program that began as part of the USDA-FSA Chesapeake Bay Riparian Forest Buffer Initiative.	NYS DEC, NYS AGM, USC	Completed	<p><b>2022 Update:</b> This project ended 10/2022 with all funds utilized. The State Practice Incentive Payment was issued on 128.54 acres. 83.91 acres of CREP was managed for re-enrollment eligibility. The buffer steward program was supported in 4 counties, performing plant survival surveys on 1,217.07 acres, and performing establishment activities on 1,107.22</p>

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	Riparian Buffer Establishment in the Susquehanna River Basin” program.	Funding will continue the CREP state incentive for riparian forest buffers. Additional funding has also been allocated for CREP re-enrollment activities, assessment and planning of new riparian buffer sites, evaluation and maintenance of existing buffer sites, and piloting a new non-CREP incentive program for focused on implementation of riparian buffers on cropland acres. BMPs implemented in the watershed through this program will be reported on an annual basis.			<p>acres. Nine implementation projects were funded that resulted in 92.8 acres of riparian forest buffer and 189.14 acres of prescribed grazing. Lastly, throughout this program period, 92 projects were planned.</p> <p><b>2023 Update:</b> Task completed during 2022 milestone period.</p>
12/31/2023	Soil health implementation and outreach (P.70)	This is an ongoing effort to promote the widespread use of soil health practices and demonstrate effective outreach programs for delivering technical assistance to small dairies implementing whole farm strategies to reduce nutrient and sediment loss. BMPs implemented in the watershed as a result this program will be reported on an annual basis.	USC	Completed	<p><b>2022 Update:</b> The USC continues to support cover crops, nutrient management, and tillage practices through the future use of the Online Tracking App that will be developed, as well as pursuing additional funding for implementation. USC is supporting soil health workshops being planned for winter 2023 by Tioga County SWCD and Cornell Cooperative Extension. Practices implemented thru this initiative are tracked and reported by SWCD member counties.</p> <p><b>2023 Update:</b> The USC continues to support cover crops, nutrient management, and tillage practices through the future use of the Online Tracking App that will be developed, as well as pursuing additional funding for implementation. Practices implemented thru this initiative are tracked and reported by SWCD member counties. In February 2023, 39 participants attended the Tioga County SWCD soil health workshop.</p>

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12/31/2023	NFWF Chesapeake Bay Stewardship Grant: Expanding Nutrient Management Across All Landscapes in the Headwaters for the Chesapeake Bay (NY,PA) (P.71-72)	In 2021, the USC was awarded \$500,000 for support of nutrient management planning and implementation in both Ag and piloting work in the Urban sector. The bulk of the grant will be focused on implementing nutrient management plans on agricultural lands. The USC is looking at setting aside \$50,000 for urban nutrient management planning and planning to partner with Binghamton University and Regional Planning Boards on the program development.	USC	On track	<p><b>2022 Update:</b> Through this funding the USC contracted with six counties for a total of 66 nutrient management plans on farms totaling approximately 14,390 acres. These plans and others will be completed by fall 2023. The USC will hold another funding request period in early January to continue expanding the planning efforts. Along with on-farm nutrient management plans, the USC has worked closely with NYS DEC to develop an Urban Nutrient Management Planning Guidance Document for NYS, and multiple outreach tools for the urban sector.</p> <p>As part of the planning contracts, the USC also contracted for the cost share of 1,581 soil tests and 88 manure analysis to support the planning efforts on those 66 operations. To date, 597 soil samples have been completed on 19 farms, totaling 5,530 acres.</p> <p><b>2023 Update:</b> Through this funding the USC contracted with 8 counties for a total of 69 nutrient management plans on farms totaling approximately 21,414 acres. The USC has a continuous funding request to continue expanding the planning efforts. In 2023, 17,069 acres were planned on 57 farms in 4 counties. Along with on-farm nutrient management plans, the USC has worked closely with NYS DEC and TetraTech to develop an Urban Nutrient Management Planning Guidance Document for NYS, and multiple outreach documents such as a “Top 10 BMPS for Urban Nutrient Management”, “Fertilizer Flow Chart”, and “Urban Nutrient Management Pledge Cards”. Social media posts have been developed along</p>



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					with and online pledge card system where landowners can report their own Urban Nutrient Management. This system has collected 423.52 acres of Urban Nutrient Management on 102 yards that will be reported to EPA for the 2024 BMP progress submission. As part of the planning contracts, the USC also contracted for the cost share of 1,581 soil tests and 88 manure analysis to support the planning efforts on those 69 operations. To date, 1,130 soil samples have been completed, and 39 manure analysis.
12/31/2023	Expanding Partnerships and Building Capacity in the Chemung River Basin (P.70)	In 2021, the USC was awarded \$50,000 to support the Friends of the Chemung River to complete a strategic plan that allows them to expand their focus to the protection of the watershed.	USC	Completed	<b>2022 Update:</b> USC Watershed Coordinator secured funding to support the strategic planning process for the Friends of the Chemung River, the process was completed in 2022. They are looking to enhance water quality restoration efforts in the Chemung River Watershed and plan to stay engaged with the USC.  <b>2023 Update:</b> Task completed during 2022 milestone period.
12/31/2023	Regional Conservation and Partnership Program (P. 68)	Renewed in 2021, the USC was awarded funding to focus on implementing best management practices that address un-met needs in the watershed related to the TMDL load allocations and assist with re-occurring flooding issues.	USC	Off track	<b>2022 Update:</b> The USC has spent the entirety of 2022 working with NRCS State Office Staff to complete the “Supplemental Agreement” necessary to begin implementation through the RCPP program. This has been extremely challenging with the lack of understanding of the program and new program requirements at the state level. At this time, the Supplemental Agreement that would cover years 2022 and 2023 is still in the review phase. The USC is hopeful that this will be approved in early January 2023 and can announce the first

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					<p>funding round through this renewal and begin the implementation process.</p> <p><b>2023 Update:</b> The USC held a funding round in 2023 for Streambank Restoration with an application cutoff of August 4, 2023. Four applications were received, site visits were completed, along with I&amp;E Feasibility, and Cost Estimates. These applications are in the process of being entered in the NRCS system, this has been a on hold due to NRCS staffing. The USC plans to hold the 2<sup>nd</sup> funding round in early 2024 that will be focused on farmstead practices.</p>
5/31/2022	USFS FY 20 Buffer Technician Support (P.77)	Expand technical assistance capacity to support riparian buffer implementation in the Upper Susquehanna watershed within NY and PA. Through this funding, the USC will focus planning and implementation efforts within areas with identified workload. Technical assistance will focus on accelerating the rate that riparian buffer implementation plans are developed and implemented.	USC	Completed	<p><b>2022 Update:</b> This grant ended in May 2022 after supporting the buffer coordinator and technician. The Upper Susquehanna Coalition has exceeded deliverables agreed upon for this funding. Technical capacity was greatly increased throughout the USC Watershed as the USC entered into a contract with Cortland County Soil and Water Conservation District to hire a buffer technician to work out of that office and two other USC Buffer technicians were supported within the USC Buffer Team. These technicians furthered all aspects of the USC’s comprehensive buffer program. The buffer technicians developed planting plans for Trees for Tributaries projects and CREP re-enrollment projects. Furthermore, technicians worked on developing scenarios for farms and landowners identified through aerial imagery as opportunity areas for riparian forest restoration and have begun to reach out to engage with potential landowners. Buffer technicians supported the USC Buffer Steward Program by</p>

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					<p>leading buffer steward workdays and organizing all steward reporting information.</p> <p><b>2023 Update:</b> Task completed during 2022 milestone period.</p>
9/30/2022	USFS F21 Technical Capacity Support for Buffer Work (P.71-72)	<p>Assist in the hire of riparian forest buffer technicians to increase technical capacity in the Upper Susquehanna watershed within NY and PA. Through this funding, the USC will work to maintain a focus on planning and implementation efforts regarding riparian buffer implementation within areas with identified workload. Technical assistance will address an existing workload as well as drive landowner/operator interest in riparian restoration. Riparian restoration implementation will be accelerated through multiple funding sources. Supporting technical capacity within districts will result in the equivalent of a new full time buffer technician hire, increasing technical capacity available to address riparian restoration needs.</p>	USC	On Track	<p><b>2022 Update:</b> Funding has been utilized to support increasing technical assistance related to riparian buffers in the watershed. Through this funding, staff has been supported to develop planting plans and then oversee installation of these designs. The USC developed a buffer stewardship tracking system to keep an updated list of projects stewarded. The USC held a virtual training for riparian buffer stewards, followed by 6 in field steward workdays to generate camaraderie. Stewardship within Cortland County was supported through this funding source as well. In the spring of 2022, four CREP re-enrollment projects were planted to meet eligibility, and in fall, three more projects were planted as new CREP enrollments. In 2022, the USC has started to once again host the Riparian Forest Buffer Task Force group to collaborate across the watershed and across agencies for RFB implementation. The USC will continue to host virtual USC Buffer Committee meetings when needed. Articles, mostly promoting the Trees for Tributaries Program have been distributed through social media and local newspapers.</p> <p><b>2023 Update:</b> This funding source did not fund activities in 2023. However, all Buffer Program activities continued through other funding sources.</p>

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12/31/2021	Arbor Day Foundation Landscape Reforestation for WQ (P.85-86)	The USC will utilize this funding to purchase tree and shrub stock that is in small containers. The USC typically only uses bare root stock for restoration plantings. Using this funding, the USC will purchase larger stock, tublings or smaller containers, so as to increase plant survival within plantings. These plants will be utilized in USC RFB Projects, through our stewardship program and others. Tree and shrub planting will occur on rural land, on farms and nonfarms. This project will result in at least 60 acres of riparian restoration, 20,000 trees and shrubs to be planted within the project area.	USC	On track	<p><b>2022 Update:</b> 30,000 plants were planted through the Arbor Day Foundation grant, all of which were planted within riparian areas. This resulted in approximately 140 acres of riparian forest buffer implemented.</p> <p><b>2023 Update:</b> The USC supported another 30,000 trees and shrubs planted again with 2023 ADF funding. This year the USC was able to support the purchase of larger stock so that Trees for Tributaries projects could incorporate large trees. The USC also supported some urban plantings in Elmira, Earlville, Norwich, and Cortland. The USC submitted another Arbor Day Foundation Proposal for trees to support implementation in 2024 for \$280,000, which was declined.</p>
<b>Developed Sector</b>					
12/31/2023	NYS funding for non-agricultural nonpoint implementation through the Water Quality Improvement Project (WQIP) Program (P.130)	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<p><b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for Round 18 of the WQIP program will be reported during the next reporting period.</p> <p><b>2023 Update:</b> During the 2022 Round 18 WQIP, there were no projects awarded funding in the non-agricultural nonpoint source implementation or aquatic connectivity restoration categories. Round 19 applications of the WQIP program are under review and will be awarded during the 2024 milestone period.</p>

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12/31/2023	NYS funding for non-agricultural nonpoint project planning and design through the Nonpoint Source Planning Grant (NPG) (P.130)	Implement two rounds of the Nonpoint Source Planning Grant (NPG) program. This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<p><b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for NPG will be reported during the next reporting period.</p> <p><b>2023 Update:</b> The following plans were awarded in Round 3 of the NPG program. Round 4 of the NPG award program will be announced in 2024.</p> <table border="1" data-bbox="1465 662 1988 1456"> <thead> <tr> <th data-bbox="1465 662 1629 727">Project Name</th> <th data-bbox="1635 662 1875 727">Description</th> <th data-bbox="1881 662 1988 727">Funding</th> </tr> </thead> <tbody> <tr> <td data-bbox="1465 727 1629 1222">Village of Johnson City Downtown Stormwater Infrastructure Study</td> <td data-bbox="1635 727 1875 1222">The Village of Johnson City will work with a consultant to complete a stormwater retrofit feasibility study report to analyze existing conditions and plan for a shovel-ready stormwater retrofit project. The project will reduce the amount of nutrients entering the Susquehanna River and Chesapeake Bay.</td> <td data-bbox="1881 727 1988 1222">\$30,000</td> </tr> <tr> <td data-bbox="1465 1222 1629 1456">Owego Creek Streambank Stabilization Engineering Design Report in Cortland County</td> <td data-bbox="1635 1222 1875 1456">The Cortland County Soil and Water Conservation District will conduct a comprehensive stream corridor assessment, including</td> <td data-bbox="1881 1222 1988 1456">\$75,000</td> </tr> </tbody> </table>	Project Name	Description	Funding	Village of Johnson City Downtown Stormwater Infrastructure Study	The Village of Johnson City will work with a consultant to complete a stormwater retrofit feasibility study report to analyze existing conditions and plan for a shovel-ready stormwater retrofit project. The project will reduce the amount of nutrients entering the Susquehanna River and Chesapeake Bay.	\$30,000	Owego Creek Streambank Stabilization Engineering Design Report in Cortland County	The Cortland County Soil and Water Conservation District will conduct a comprehensive stream corridor assessment, including	\$75,000
Project Name	Description	Funding												
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						flood risks, for the Headwaters Owego Creek watershed using the North Atlantic Aquatic Connectivity Collaborative protocol. The study will evaluate erosion and prioritize erosion control needs and activities along 30 miles of stream corridor.	
					Headwaters East Branch Owego Creek Stream Corridor Assessment in Cortland County	The Cortland County Soil and Water Conservation District will work with a consultant to prepare a streambank stabilization design report to repair an eroding streambank and hillside prone to erosion, mudslides and flooding in the Town of Harford. The project will reduce nutrients in the Headwaters Owego Creek watershed and protect existing infrastructure.	\$30,000
					Trout Brook/Smith Brook Stream	The Cortland County Soil and Water Conservation District will	\$75,000

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					Corridor and Flood Risk Assessment in Cortland County	prepare a comprehensive stream corridor assessment, including flood risks, for the Trout Brook and Smith Brook watersheds using the North American Aquatic Connectivity Collaborative framework. The report will document priorities for erosion control for over 70 miles of stream corridor.	
					Town of Cortland Streambank Stabilization Engineering Design Report	The Cortland County Soil and Water Conservation District will prepare a streambank stabilization design report for an eroding streambank site on the East Branch of the Tioughnioga River. The project will reduce the amount of nutrients in the river and improve water quality in the Chesapeake Bay watershed.	\$30,000
12/31/2023	NYS funding for green infrastructure projects to reduce	Implement two rounds of the Green Infrastructure Grant Program (GIGP). This program is funded through New	NYS DEC/EFC	On track	<b>2022 Update:</b> NYS Environmental Facilities Corporation (EFC) released Round 14 GIGP		

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	stormwater impacts through the Green Infrastructure Grant Program (GIGP) (P.129)	York’s Environmental Protection Fund (EPF).			during November 2022. There were no projects awarded within the Chesapeake Bay watershed.  <b>2023 Update:</b> The Round 15 awards for GIGP are expected to be released in early 2024.
12/31/2022	Expand reporting of Urban Nutrient Management Plans in the Watershed (P.120)	Using CBIG funding, NYSDEC will work with Tetrattech to develop a template for creating urban nutrient management plans. The funding includes piloting two urban nutrient management plans in the watershed.	NYS DEC	On track	<b>2022 Update:</b> Tetrattech has worked with DEC, USC, and Cornell University to develop guidance and outreach and educational material on implementing urban nutrient management. During the next reporting period, two projects will be implemented, and the guidance will be updated based on results.  <b>2023 Update:</b> During the reporting period, tetra tech completed the outreach and education materials as well as a voluntary pledge card that was distributed to members of the USC. A GIS analysis was developed to determine the risk associated with each parcel in the watershed based on steep slopes, high water table, shallow soils, sandy soils, high use areas, karst terrain, proximity to a waterbody, and flood frequency. During 2023, there were 54 responses to the voluntary pledge card online survey. These results will be reported to the Chesapeake Bay Program during the 2024 progress reporting period.
12/31/2023	Compliance and enforcement of MS4 communities, industrial stormwater and construction sites through New York	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	On track	<b>2022 Update:</b> DEC conducted 3 inspections at MS4s and 14 inspections at construction stormwater sites in the watershed. DEC conducted 13 technical assistance meetings and responded to 7 complaints for construction stormwater sites. DEC issued seven notices of violation for construction stormwater sites.



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	Phase II Stormwater Program (P.110)				<b>2023 Update:</b> DEC 9 inspections at construction stormwater sites in the watershed. DEC conducted 11 technical assistance meetings and responded to one complaint for construction stormwater sites. DEC issued one notice of violations for construction stormwater sites.
12/31/2020	MS4 general permit update (P.135)	DEC will work with EPA through the established coordination process before the draft MS4 permit is released for public comment to ensure consistency with New York’s Watershed Implementation Plan. It is expected that the MS4 permit will be released for public comment in early 2023.	NYS DEC	Milestone Met	<b>2022 Update:</b> The draft permit is still under internal DEC review. <b>2023 Update:</b> The final permit was issued on December 13, 2023 and will be effective on January 3, 2024.
<b>Wastewater Sector</b>					
12/31/2023	Modify Significant facility permits (P.91-92, 99)	NYSDEC will initiate permit modifications for 32 Significant facilities to include 2025 wasteload allocations and concentration limits. Permits that are up for renewal have been or are in the process of being modified with 2025 wasteload allocations. The remaining permits will be modified together as a mass modification during the milestone period. During the last milestone period, nine permits were modified. The number of permits modified will be reported on an annual basis.	NYS DEC	On track	<b>2022 Update:</b> During 2022, 5 permit modifications for significant facilities were completed. Facilities include: <ul style="list-style-type: none"> <li>• City of Corning WWTP</li> <li>• Kerry Bioscience</li> <li>• Leprino Foods</li> <li>• Village of Sherburne WWTP</li> <li>• Village of Painted Post STP</li> </ul> There are 13 significant facility permits remaining to be modified. <b>2023 Update:</b> During 2023, 4 permit modifications for significant facilities were completed. Facilities include: <ul style="list-style-type: none"> <li>• Owego SD #1</li> </ul>

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					<ul style="list-style-type: none"> <li>Owego STP #2</li> <li>Chenango Northgate WWTP</li> <li>Oneonta WWTP</li> </ul> <p>There are eight significant facilities permits remaining to be modified. Three of the permits are currently being publicly noticed. Endicott Interconnect Technologies has closed the facility and relinquished their SPDES permit.</p>
12/31/2023	Continue to use EPA’s Integrated Compliance Information System (ICIS) (P.103)	Continue to use the ICIS data management system to submit individual SPDES permit data as appropriate.	NYS DEC	On track	<p><b>2022 Update:</b> During calendar year 2022, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p> <p><b>2023 Update:</b> During calendar year 2023, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p>
12/31/2023	Compliance and enforcement of wastewater permits (P.87-88)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	On track	<p><b>2022 Update:</b> During the reporting period, 43 unique facilities were inspected in the watershed with 61 inspection visits. Of the 43, 9 were in significant noncompliance. Seven facilities in the watershed had enforcement actions taken. Twelve complaint responses were responded to during the reporting period.</p> <p><b>2023 Update:</b> During the reporting period, 34 unique facilities were inspected in the watershed with 43 total inspection visits. 14 facilities in the watershed had enforcement actions taken and 10 complaint responses were responded to during 2023.</p>

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12/31/2023	NYS funding for wastewater treatment improvement through the Water Quality Improvement Project (WQIP) Program (P.106)	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program. This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<p><b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for Round 18 of the Water Quality Improvement Project will be reported during the next reporting period.</p> <p><b>2023 Update:</b> The following project was awarded in Round 18 of the WQIP program. Round 19 applications of the WQIP program are under review and will be awarded during the 2024 milestone period.</p> <table border="1"> <thead> <tr> <th>Project Name</th> <th>Description</th> <th>Funding</th> </tr> </thead> <tbody> <tr> <td>Town of Chenango Wastewater Treatment Improvement at Northgate Facility</td> <td>The Town of Chenango will install batch membrane bioreactor treatment technology at its Northgate wastewater treatment plant. This project will reduce the amount of phosphorus entering the Chenango River and the Chesapeake Bay.</td> <td>\$10,000,000</td> </tr> </tbody> </table>	Project Name	Description	Funding	Town of Chenango Wastewater Treatment Improvement at Northgate Facility	The Town of Chenango will install batch membrane bioreactor treatment technology at its Northgate wastewater treatment plant. This project will reduce the amount of phosphorus entering the Chenango River and the Chesapeake Bay.	\$10,000,000
Project Name	Description	Funding									
Town of Chenango Wastewater Treatment Improvement at Northgate Facility	The Town of Chenango will install batch membrane bioreactor treatment technology at its Northgate wastewater treatment plant. This project will reduce the amount of phosphorus entering the Chenango River and the Chesapeake Bay.	\$10,000,000									

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12/31/2023	NYS funding for wastewater treatment improvement project planning and design through the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG) (P.106)	Implement two rounds of the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG).	NYS DEC/EFC	On track	<p><b>2022 Update:</b> NYS Environmental Facilities Corporation (EFC) released one round of EPG during November 2022. The following planning grants were awarded in the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> <li>• Flow Management Plan Implementation (Phase 2) for the Village of Endicott (\$100,000)</li> <li>• Combined Sewer Overflow Reduction Green Infrastructure Pilot Study for Chemung County Sewer Districts (\$50,000)</li> <li>• Mt. Zoar Area Sanitary Sewer Study for Town of Southport (\$24,000)</li> <li>• Wastewater Treatment and Collection System Study for Village or Richfield Springs (\$100,000)</li> <li>• Sewer System Improvement Study for Village of South Corning (\$30,000)</li> <li>• Biosolids Management and Water Pollution Control Plant 1 Outfall Sewer Study for Town of Owego (\$50,000)</li> </ul> <p><b>2023 Update:</b> It is expected that the awards for the next round of EPG will be released in early 2024.</p>
12/31/2023	Track upgrades for facilities (P.98, 106)	Track upgrades for enhanced nutrient removal for significant and non-significant facilities through existing wastewater grant programs.	NYS DEC/EFC	On track	<p><b>2022 Update:</b> The following facilities are currently under contract for engineering or implementation of nutrient upgrades or facility improvements:</p> <p>Engineering Planning Grants:</p> <ul style="list-style-type: none"> <li>• City of Binghamton First Ward Inflow and Infiltration Study (\$50,000)</li> </ul> <p>Water Quality Improvement Project:</p>

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					<ul style="list-style-type: none"> <li>• Chenango Northgate WWTP (\$1,000,000)</li> <li>• Owego (T) SD#1 WPCP (\$2,148,000)</li> <li>• Bath WWTP (\$1,000,000)</li> <li>• Cooperstown WWTP (\$1,000,000)</li> <li>• Village of Endicott WWTP (\$602,320)</li> <li>• Chemung County Sewer Districts (\$10,000,000)</li> <li>• Village of Sidney WWTP (\$2,038,750)</li> <li>• Town of Bath Sewer Collection System (\$3,798,175)</li> </ul> <p>Homes and Community Renewal – Community Development Block Grant:</p> <ul style="list-style-type: none"> <li>• South Corning (V) (\$1,000,000)</li> <li>• Jasper (T) WWTP non-significant (\$832,850)</li> </ul> <p><b>2023 Update:</b></p> <p>Engineering Planning Grants:</p> <ul style="list-style-type: none"> <li>• City of Binghamton First Ward Inflow and Infiltration Study (\$50,000)</li> <li>• Flow Management Plan Implementation (Phase 2) for the Village of Endicott (\$100,000)</li> <li>• Combined Sewer Overflow Reduction Green Infrastructure Pilot Study for Chemung County Sewer Districts (\$50,000)</li> <li>• Mt. Zoar Area Sanitary Sewer Study for Town of Southport (\$24,000)</li> <li>• Wastewater Treatment and Collection System Study for Village of Richfield Springs (\$100,000)</li> <li>• Sewer System Improvement Study for Village of South Corning (\$30,000)</li> </ul>

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					<ul style="list-style-type: none"> <li>• Biosolids Management and Water Pollution Control Plant 1 Outfall Sewer Study for Town of Owego (\$50,000)</li> </ul> <p>Water Quality Improvement Project:</p> <ul style="list-style-type: none"> <li>• Chenango Northgate WWTP (\$1,000,000)</li> <li>• Owego (T) SD#1 WPCP (\$2,148,000)</li> <li>• Bath (V) WWTP (\$1,000,000)</li> <li>• Cooperstown WWTP (\$1,000,000)</li> <li>• Village of Endicott WWTP (\$602,320)</li> <li>• Chemung County Sewer Districts (\$10,000,000)</li> <li>• Village of Sidney WWTP (\$2,038,750)</li> <li>• Town of Bath Sewer Collection System (\$3,798,175)</li> <li>• Town of Chenango Wastewater Treatment Improvement at Northgate Facility (\$10,000,000)</li> </ul> <p>Homes and Community Renewal – Community Development Block Grant:</p> <ul style="list-style-type: none"> <li>• Jasper (T) WWTP non-significant (\$832,850)</li> </ul> <p>EFC Water Infrastructure Improvement &amp; Intermunicipal Grant Awards</p> <ul style="list-style-type: none"> <li>• Lake Salubria and Kanona Collection System Study (\$1,249,790)</li> <li>• Village of Endicott Sanitary Sewer II Removal Project Phase 2 (\$286,725)</li> <li>• Village of Afton Wastewater Collection and Treatment Project (\$2,749,384)</li> <li>• Village of Bainbridge Sanitary Sewer Inflow/Infiltration Study (\$1,591,750)</li> </ul>

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
					<ul style="list-style-type: none"> <li>Village of Canisteo Disinfection System and Wastewater Treatment Plant Improvements (\$1,097,750)</li> <li>Town of Erwin Wastewater Treatment Plant &amp; Route 417 Sewer Improvements (\$1,097,750)</li> <li>Village of Sherburne Wastewater Treatment Plant Upgrade and Pump Station Upgrade (\$8,729,104)</li> </ul>
12/31/2023	Track trading amount individual SPDES (P.100)	Track nutrient trades among Significant wastewater facilities and modify permits accordingly.	NYS DEC	On track	<p><b>2022 Update:</b> No nutrient trades were done among significant facilities during the milestone period.</p> <p><b>2023 Update:</b> No nutrient trades were done among significant facilities during the milestone period.</p>
12/31/2023	Wastewater Growth Analysis (P.107)	DEC conducts an analysis to determine if changes in flow are due to measurable growth or due to wet weather and impacts of I&I. If flow changes are due to growth, New York will implement actions to offset the load associated with growth. Flow increases due to wet weather as a result of excessive I&I will be addressed through I&I studies and remediation. This analysis will be completed for 2022-2023.	NYS DEC	On track	<p><b>2022 Update:</b> Analysis results will be provided during the next reporting period.</p> <p><b>2023 Update:</b> See Chesapeake Bay Watershed Significant Wastewater Treatment Plant Growth Methodology and Milestone Report for 2022-2023.</p>

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates										
12/31/2023	Wastewater Growth Analysis (P.107)	<p>Based on the 2021 Wastewater Growth Analysis, prioritize follow up on for the following facilities:</p> <ul style="list-style-type: none"> <li>- (V) Sherburne STP – Address potential I&amp;I issues</li> <li>- (V) Greene WWTP - Address potential I&amp;I issues</li> <li>- Chobani Inc. – review for continued growth during 2022-2023.</li> </ul>	NYS DEC	On track	<p><b>2022 Update:</b> The two-year wastewater growth analysis will be prepared for the 2023 progress period.</p> <p><b>2023 Update:</b> The following facilities were identified in the analysis report as having a significantly increasing flow.</p> <table border="1"> <thead> <tr> <th>Facility</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>Sherburne (V) STP NY0021466</td> <td><u>Address I&amp;I at facility.</u> Facility is below Phase III WIP outflow average (0.33 mgd). For 2023 progress, facility is below waste load allocations for nitrogen (97%) and phosphorus (71%). <del>No action taken.</del></td> </tr> <tr> <td>Greene (V) WWTP NY0021407</td> <td>Facility is above Phase III WIP outflow average (0.6 mgd). For 2023 progress facility is well below waste load allocations for nitrogen (16%) and phosphorus (22%). No action taken.</td> </tr> <tr> <td>Sidney (V) STP NY0029271</td> <td>Address I&amp;I at facility. Facility is below Phase III WIP outflow average (0.64 mgd). For 2023 progress reporting, facility is well below waste load allocation for nitrogen (55%) and (63%) phosphorus.</td> </tr> <tr> <td>Chobani Inc.</td> <td>Review for potential growth as facility is above Phase III WIP outflow average (0.55MGD). For 2023 progress reporting, Facility is well below waste load allocation for nitrogen (50%) and 11% above</td> </tr> </tbody> </table>	Facility	Action	Sherburne (V) STP NY0021466	<u>Address I&amp;I at facility.</u> Facility is below Phase III WIP outflow average (0.33 mgd). For 2023 progress, facility is below waste load allocations for nitrogen (97%) and phosphorus (71%). <del>No action taken.</del>	Greene (V) WWTP NY0021407	Facility is above Phase III WIP outflow average (0.6 mgd). For 2023 progress facility is well below waste load allocations for nitrogen (16%) and phosphorus (22%). No action taken.	Sidney (V) STP NY0029271	Address I&I at facility. Facility is below Phase III WIP outflow average (0.64 mgd). For 2023 progress reporting, facility is well below waste load allocation for nitrogen (55%) and (63%) phosphorus.	Chobani Inc.	Review for potential growth as facility is above Phase III WIP outflow average (0.55MGD). For 2023 progress reporting, Facility is well below waste load allocation for nitrogen (50%) and 11% above
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12/31/2023	Binghamton-Johnston City wastewater treatment plant Compliance (P.101)	DEC will continue to provide the most up to date information on the Binghamton-Johnson City WWTP permit and consent order.	NYS DEC	On track	<p><b>2022 Update:</b> BJC completed the reconstruction project during the 2020 reporting period. DEC issued a final permit for the facility in July 2020. Since then, the facility experienced an additional failure in February 2022. As a result, the facility exceeded nitrogen concentration limits for 6 months during the reporting period. The facility is currently meeting both nitrogen and phosphorus concentration limits.</p> <p><b>2023 Update:</b> The facility has been meeting both nitrogen and phosphorus concentration limits during the milestone period.</p>		
<b>Other Sectors/Climate Change</b>							
12/31/2023	Updating Forest Harvesting Acres (P.141-142)	DEC will work with Chesapeake Bay Program to update harvested forest acres in the model using state-specific data.	NYS DEC	On track	<p><b>2022 Update:</b> DEC Division of Water has been working with Division of Lands and Forest to understand what, if any, state-wide timber harvesting data is available.</p> <p><b>2023 Update:</b> DEC has been participating on the Timber Harvest Task Force under the Forestry Workgroup. State-owned forests with timber harvest records are now being reported from 2013-2023 to CAST.</p>		

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12/31/2023	Climate Change Allocation (P.145)	DEC has submitted an updated BMP input deck to account for the additional allocation of 0.399 million lbs. of nitrogen and 0.044 million lbs. of phosphorus.	NYS DEC	On track	<p><b>2022 Update:</b> NY is continuing to implement BMPs towards the Phase III WIP and Climate Change additional loads. Report detailing how New York expects to achieve the reductions to offset the additional loads from climate change is available on the DEC Chesapeake Bay Website.<sup>2</sup></p> <p><b>2023 Update:</b> NY is continuing to implement BMPs towards the Phase III WIP and Climate Change additional loads.</p>
12/31/2023	2035 Climate Change Conditions (P.145)	Preliminary estimates for the climate impact through 2035 indicate a doubling of the 2025 load effect. The effect of climate change on our ability to meet the Bay’s water quality standards is a significant and increasing concern.	NYS DEC	On track	<p><b>2022 Update:</b> NY is continuing to implement BMPs towards the Phase III WIP and Climate Change additional loads.</p> <p>Within the watershed there are 39 Climate Smart Communities registered. Nine of the communities are bronze certified. The program offers free technical assistance, grants, and rebates for electric vehicles.<sup>3</sup></p> <p><b>2023 Update:</b> As of 2023, there are 43 Climate Smart Communities registered in the watershed. There are 12 communities with bronze certification and one, Tompkins County, with a silver certification.</p>
12/31/2023	NFWF Chesapeake Bay Stewardship Grant: Watershed Approach to Stream Corridor Restoration in the Headwaters for	In 2021, the USC was awarded \$500,000 to focus on stream corridor restoration efforts in I-4 Watersheds and fund a two person USC stream assessment team to conduct three additional watershed assessments	USC	On Track	<p><b>2022 Update:</b> During this time period the USC coordinated with member Soil and Water Conservation Districts to solicit projects, contracted with several districts for their projects, completed two projects and started outreach activities. The completed project provides BMP deliverables such as stream</p>

<sup>2</sup> Climate Change Milestones and Input Deck [https://www.dec.ny.gov/docs/water\\_pdf/cbclimatemilestones.pdf](https://www.dec.ny.gov/docs/water_pdf/cbclimatemilestones.pdf)

<sup>3</sup> Climate Smart Communities <https://climatesmart.ny.gov/>

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
	the Chesapeake Bay (NY, PA) (P.71)	and help SWCD’s that participated in I-4 work on prioritizing projects, designing, and securing funding for implementation.			<p>corridor restoration, buffer, and upland planting. The USC coordinated with two entities to work in DEIJ communities focusing on outreach regarding the rivers that flow within their communities. Additional projects and outreach are lined up for 2023 that will help to reach the grant deliverables. Watershed assessments within the Cohocton watershed have started in 2022 as well.</p> <p><b>2023 Update:</b> The Upper Susquehanna Coalition and member SWCDs have continued to work within the stream corridor on several projects to reduce nutrient and sediment pollution and to educate the public about stream processes. The USC has been working in priority subwatersheds within the larger Cohocton and Tioughnioga watersheds to assess the stream corridors for passage barriers, bank instability, and riparian canopy gaps. Through several outreach strategies, school children have been engaged with workbooks and coloring books regarding streams and stormwater. To date, 6,936.65 lbs/year of nitrogen, 517.76 lbs/year of phosphorus, and 1,567,652.65 lbs/year of sediment have been reduced from the Bay (as measured by CAST, edge of tide) through this grant funding. Overall in 2023, 11.88 acres of buffer was implemented, 2,550’ of stream corridor was restored through stabilization, 1,900’ of stream exclusion fence was implemented, 8.85 acres of upland reforestation took place, 1,585 people were reached with outreach activities, 116 people volunteered through tree planting</p>

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
					projects, and 381 sites were assessed for stream corridor restoration potential.
12/31/2023	Expanding Wetland Work in the Upper Susquehanna River Watershed (This project is supported by a NYSDEC WQIP Grant) (P.53)	Through this project, the USC Wetland Team and partners will strive to increase private landowner participation in wetland restoration through education and outreach along with the physical restoration of wetlands throughout the Upper Susquehanna River Watershed. Deliverables include restoring 36 acres of wetland and enrolling 20 acres of wetlands in partner programs.	USC	Complete	<p><b>2022 Update:</b> 2022 progress towards this project included the restoration, enhancement, or the partnership in implementation of 13 projects, bringing total project acreage to 34.19 acres, and total partner site acreage to 19.08 acres. Those restoration projects coupled with efforts to increase partnerships and prioritize wetland implementation have resulted in many more wetland site opportunities added to the list growing list of potential sites. In 2022, the USC collaborated with partners to identify hurdles to wetland restoration in the watershed, and ways to increase buy in, restoration rate, and partner involvement in seeing expanded wetland projects in the region. With funding remaining in the grant, the USC requested a project extension, and plan to wrap up activities towards this project with additional restoration and enhancement in 2023.</p> <p><b>2023 Update:</b> In 2023 the USC Wetland Team completed this project, completing the restoration of a total of 36 acres across 15 sites, and 24.58 acres of partner projects, and facilitated the enrollment of an additional 30.34 acres of wetland restoration and enhancement in 2023 after the completion of this project.</p>
12/31/2023	SRBC Mud Creek Wetland and Buffer Restoration Project (P.53)	In 2021, the USC was awarded a grant for \$316,000 to purchase a property in the Mud Creek watershed and restore over 26 acres of wetland and riparian forest area.	USC	On Track	<p><b>2022 Update:</b> In 2022, the USC finalized property acquisition of the 105.158 – acre Mud Creek Property as part of this project, and began the site design, evaluation and permitting process. The USC expects a 3.5-acre portion of</p>

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					<p>the wetland and buffer area to be planted in spring of 2023, with permitting to be finalized in spring in preparation for the hydrologic restoration portion of the project.</p> <p><b>2023 Update:</b> In 2023 the USC Wetland Team completed the initial planting phase of the project with the spring 2023 planting of 3.5 acres of wetland, riparian forest, and upland area, installed 4 acres of deer exclusion fencing to encourage the development of the shrub and tree vegetation and planned the wetland restoration portion of the project, and completed upland plantings within 2 acres of deer fence. In 2024 the USC Wetland Team will complete the wetland restoration activities and tree and shrub plantings.</p>
<p><b>New Milestone</b> 7/31/2025</p>	<p>SRBC Chenango River Partnership Project – Wetland, Stream and Buffer Restoration Project (P.53)</p>	<p>In 2022, the USC was awarded a grant for \$358,560 to restore a severely eroding section of Chenango Riverbank, to restore and enhance 17.5 acres of wetland, and to restore 5.5 acres of Riparian Forest Buffer.</p>	<p>USC</p>	<p>On Track</p>	<p><b>2022 Update:</b> Upon receipt of this funding, the USC and partners worked to begin planning and implementing restoration activities, with efforts towards site design, permitting development, planting plan development, and even the implementation of six acres of wetland and riparian buffer planting, all within five months of receiving the award. In 2023, the USC expects to receive stream permitting, and proceed with big package development, and wetland and stream restoration at the site.</p> <p><b>2023 Update:</b> In 2023, the USC worked to partner with the Chenango Greenway Conservancy, the US Fish and Wildlife Service, and the Tioga SWCD Engineering team to complete the streambank restoration phase of the project. The completed stream restoration highlights toe wood streambank protection. In</p>

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					addition to the stream restoration, USC team completed a portion of the wetland restoration activities including the installation of a long groundwater dam and installation of a groundwater monitoring well. Large trees were planted along the stream corridor. An additional large-scale planting will complete the restoration of the site in 2024.

Numeric Milestones<sup>4</sup>

Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Progress	2023 Milestone	Milestone Program/Funding Sources
Nutrient Management Core N & P	Annual	Acres	110,499 (100%)	109,811	122,803 (99%)	123,623	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Cornell Dairy Acceleration Program (DAP)</li> <li>• CAFO Compliance</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Nutrient Management Rate, Timing, Placement N & P	Annual	Acres	97,548 (91%)	106,811	104,331 (86%)	121,623	
Cover Crops	Annual	Acres	16,196 (66%)	24,327	18,974 (56%)	33,654	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• USC Cover Crop Implementation Program</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Forest Buffers on Fenced Pasture Corridor	Cumulative	Acres	2,122 (73%)	2,900	2,138 (70%)	3,061	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> </ul>

<sup>4</sup> Numeric milestones are based on New York’s most recent BMP input deck, which was updated to include additional offsets for the climate change allocation.

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Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Progress	2023 Milestone	Milestone Program/Funding Sources
Forest Buffers	Cumulative	Acres	790 (48%)	1,650	992 (56%)	1,769	<ul style="list-style-type: none"> <li>Climate Resilient Farming (CRF)</li> <li>Comprehensive Riparian Buffer Establishment in the Susquehanna River Basin Program</li> <li>Susquehanna Watershed Riparian Buffer Enhancement Project</li> <li>Expanding Engagement in the Upper Susquehanna Coalition Buffer Program</li> </ul>
Soil and Water Conservation Plan	Cumulative	Acres	197,380 (79%)	250,000	196,920 (75%)	262,794	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Livestock Waste Management Systems	Cumulative	Animal Units	92,330 (90%)	102,372	92,128 (78%)	117,544	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>CAFO Compliance</li> </ul>
Dairy Precision Feeding	Annual	Animal Units	15,588 (75%)	19,920	19,676 (76%)	25,840	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Cornell Dairy Acceleration Program (DAP)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Urban Nutrient Management Plans	Annual	Acres	n/a	500	n/a	1,000	<ul style="list-style-type: none"> <li>NFWF Chesapeake Bay Stewardship Grant: Expanding Nutrient Management Across All Landscapes in the Headwaters for the Chesapeake Bay</li> <li>DEC Urban Nutrient Management Pilot Project</li> </ul>
Conservation Tillage	Annual	Acres	26,163 (100%)	10,495	25,148 (100%)	20,990	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Pasture Alternative Watering	Cumulative	Acres	1,702 (100%)	1,560	1,518 (49%)	3,120	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>

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Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Progress	2023 Milestone	Milestone Program/Funding Sources
Horse Pasture Management	Cumulative	Acres	747 (100%)	17	752 (100%)	34	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• CAFO Compliance</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Wetland Creation	Cumulative	Acres	65 (100%)	64	68 (53%)	128	<ul style="list-style-type: none"> <li>• WQIP Expanding Wetland Work in the Upper Susquehanna River Watershed</li> <li>• Climate Resilient Farming (CRF)</li> <li>• SRBC Mud Creek Wetland and Buffer Restoration Project</li> </ul>
Wetland Rehabilitation	Cumulative	Acres	509 (100%)	509	520 (51%)	1,018	<ul style="list-style-type: none"> <li>• WQIP Expanding Wetland Work in the Upper Susquehanna River Watershed</li> <li>• Climate Resilient Farming (CRF)</li> <li>• SRBC Mud Creek Wetland and Buffer Restoration Project</li> </ul>
Land Retirement	Cumulative	Acres	3,566 (100%)	1,769	3,500 (99%)	3,538	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Alternative Crops	Cumulative	Acres	717 (100%)	517	717 (69%)	1,034	<ul style="list-style-type: none"> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Tree Planting	Cumulative	Acres	29 (14%)	205	80 (20%)	410	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Manure Incorporation	Annual	Acres	20,832 (93%)	22,479	25,914 (58%)	44,958	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Stream Restoration	Cumulative	Feet	45,838 (100%)	22,450	67,651 (100%)	44,900	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> </ul>



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Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Progress	2023 Milestone	Milestone Program/Funding Sources
							<ul style="list-style-type: none"> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Barnyard Runoff Control + Loafing Lot Management	Cumulative	Acres	247 (100%)	122	253 (100%)	244	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>