Schoharie Watershed Stream Management Program 2021 – 2023 Action Plan



Photo of Schoharie Creek valley as viewed from Pratt's Rock, taken in 2020 in Prattsville. (Courtesy of Michelle McDonough, GCSWCD).



NYCDEP Stream Management Program 71 Smith Ave Kingston, NY 12401 Dave Burns, Project Manager 845.340.7850 dburns@dep.nyc.gov



Greene County Soil & Water Conservation District 907 County Office Building Cairo, NY 12413 Joel DuBois, Executive Director 518.622.6320 joel@gcswcd.com

Greene County Soil & Water Conservation District 907 County Office Building, Cairo NY 12413 Phone (518) 622-3620 Fax (518) 622-0344



To: David Burns, Project Manager, NYCDEP

From: Joel DuBois, Executive Director, GCSWCD

Date: May 6, 2021

Re: Schoharie Watershed Stream Management Program 2021-2023 Action Plan

The Greene County Soil and Water Conservation District (GCSWCD) and the NYC Department of Environmental Protection (DEP) have collaborated with the Schoharie Watershed Advisory Committee (SWAC) to develop the 2021 – 2023 Action Plan. The Action Plan provides the Schoharie Watershed Stream Management Program's activities, projects and programs that are planned for 2021-2023 as well as program accomplishments.

The Action Plan is divided into key programmatic areas:

- A. Protecting and Enhancing Stream Stability and Water Quality
- B. Floodplain Management and Planning
- C. Highway and Infrastructure Management in Conjunction with Streams
- D. Riparian Buffer Assistance for Streamside Landowners (Public and Private)
- E. Protecting and Enhancing Aquatic and Riparian Habitat and Ecosystems
- F. Enhancing Public Access to Streams

The Action Plan is updated and revised annually. This plan will be implemented from May 2021 – May 2023.

Schoharie Watershed Stream Management Program 2021-2023 Action Plan

Purpose

This Action Plan identifies stream management goals, presents a subset of stream management plan recommendations and identifies current implementation initiatives by the Schoharie Watershed Stream Management Program for the period 2021-2023. The Action Plan also provides the current status or progress of each action item.

How to read this document: The Action Plan is organized around key programmatic areas. For each topic area, a list of recommendations, derived from Stream Management Plans and program staff, are provided in *italicized* text. Following the recommendations, the ongoing projects, programs and activities, including those that are funded through the Stream Management Implementation Program (SMIP), are listed. All completed projects are listed at the end of this document in Appendix A.

Background

The Schoharie Watershed Stream Management Program (SWSMP) was established in a partnership between the Greene County Soil & Water Conservation District (GCSWCD) and NYC Department of Environmental Protection (DEP) in 1997 to assist in meeting requirements of the Filtration Avoidance Determination (FAD) issued to DEP by the Environmental Protection Agency. Stream Management Plans have been completed for each major river corridor in the Schoharie Watershed and each plan includes a set of general recommendations, and project specific recommendations, which provide a "road map" for improved stream and floodplain management. In addition to supporting the FAD, SWSMP projects also targeted reductions to in-stream sources of suspended sediments as part of DEP's Shandaken Tunnel State Pollution Discharge Elimination System (SPDES) permit established in September 2006. The SWSMP seeks to advance state-of-the-art watershed management projects, policies and programs to improve and protect the Schoharie's water resources. Initiatives include the Stream Management Implementation Program (SMIP), the Catskill Streams Buffer Initiative (CSBI), stream and floodplain restoration projects, stream and watershed assessments, local flood analysis and mitigation, and education and outreach programs.

The following Action Plan summarizes the programs and projects that GCSWCD will be leading or supporting within the Schoharie Basin between May 2021 and May 2023, and includes action plan updates through May 1, 2021. The GCSWCD will lead, coordinate or support the efforts for each action item, and work cooperatively with watershed partners including, but not limited to, the Schoharie Watershed Advisory Committee (SWAC), NYCDEP, NYSDEC, CWC and watershed municipalities. Funding sources for our action items include, Stream Management Implementation Program (SMIP), Catskill Streams Buffer Initiative (CSBI), Watershed Assistance Program (WAP), Army Corps' Water Resources Development Act (WRDA), Catskill Watershed Corporation (CWC), DEP/GCSWCD Schoharie Watershed Stream Management Program (Contract, CAT-496), Federal Emergency Management Agency (FEMA), and Natural Resource Conservation Service Emergency Watershed Protection Program (EWP).

Program Administration

The Schoharie Watershed Stream Management Program requires on-going administrative and organizational support to implement stream management efforts. Many of the program administration action plan items began around 2007 and will continue through the duration of the stream management program. Additional action items may be added as the program evolves and as program goals are refined.

PROGRAM ADMINISTRATION				
Action Item	Partners	Description	Funding	Status
		The GCSWCD has developed an effective and efficient		
		process for implementation of the stream management		
		plans for Schoharie Creek and its associated tributaries.		
Program		These efforts of the Schoharie Watershed Stream	NYCDEP/	
Administration	NYCDEP,	Management Program (SWSMP) help to fulfill the	GCSWCD	
and	GCSWCD,	NYCDEP FAD obligations. Development and	SMP	
Implementation	MSMA, SWAC	implementation of the program is an on-going process.	Contract	On-going
	GCSWCD,		NYCDEP/	
	NYCDEP,	Facilitate coordination between the agencies with stream	GCSWCD	
Inter-Agency	NYSDEC,	management responsibilities. This is a key component of	SMP	
Coordination	USACOE	SMP implementation.	Contract	On-going
		The Stream Management Implementation Program (SMIP)		
		is a collaborative program between GCSWCD, NYCDEP,		
		and municipalities within the Schoharie Reservoir		
		watershed. This program offers funding for government		
		agencies, streamside landowners, schools, and 501(c)(3)		
		organizations involved in stream stewardship that fosters		
		water quality protection and enhancement. The program is		
		administered through the Schoharie Watershed Stream		
		Management Program (SWSMP) at the GCSWCD. The		Organized
		SWAC meets with GCSWCD and NYCDEP two times per		May 2008,
Stream		year to support stream management implementation efforts.	NYCDEP/	two
Management		Since 2008, the SMIP has completed 23 rounds of funding,	GCSWCD	application
Implementation	GCSWCD,	and provided 117 awards, with a total of \$5,465,870.77 in	SMP	rounds per
Program	NYCDEP, SWAC	allocated funding.	Contract	year

A. Protecting and Enhancing Stream Stability and Water Quality

Protecting and enhancing stream stability and water quality may include: stream corridor assessments; stream stabilization/restoration projects with goals to restore stream stability and reduce the targeted pollutant; monitoring and maintenance of stream projects; and outreach, education and technical assistance to encourage stream stewardship.

STREAM CORRIDOR ASSESSMENT AND MONITORING RECOMMENDATIONS

- 1. Complete a watershed assessment of tributaries within the Schoharie Creek Watershed that have yet to be assessed and conduct updated assessments of sub-basin streams to record current conditions. These tributaries should be studied to identify and prioritize sediment sources, erosion hazards, and potential water quality impairments and associated treatment opportunities.
- 2. Review existing water quality data and identify, to the extent possible, the most significant water quality impairments.
- 3. Identify locations of potential water quality impairments including; sources of pollution from upland areas and within the stream channel such as significant glacial lake clay exposures, and sources of contaminants from road runoff and households, and make prioritized recommendations for their mitigation.
- 4. Identify, monument and survey selected sites of bank erosion, assess their relative stability, and make prioritized recommendations for their treatment.
- 5. Monitor constructed stream restoration sites to document the projects' status and performance. Monitoring will include measurements and analysis of geomorphic form, rock structures, and vegetation. Monitoring will be performed in accordance with Army Corps of Engineers permit requirements as well as GCSWCD/NYCDEP annual assessments of the need for additional monitoring. Data will be collected to monitor project stability and vegetation establishment.

STREAM ASSESSMENTS AND MONITORING				
Action Item	Partners	Description	Funding	Status
Stream Inventory and Assessment	NYCDEP, GCSWCD	Stream Feature Inventories (SFI) are an on-going priority to assess baseline conditions and identify potential projects. The Johnson Hollow Brook and Halsey Brook SFIs will be conducted in 2021. Stream corridors to assess in 2022 will be determined in winter 2021.	NYCDEP/ GCSWCD SMP Contract	Active
Monitoring of Restored Stream Reaches	NYCDEP, GCSWCD	Annual monitoring of restored stream reaches provides valuable information on the effectiveness of restoration practices in addition to fulfilling the permit requirements associated with these projects. Monitoring includes a visual inspection of the reach, photo documentation, pebble counts, and a survey of monumented cross sections and the longitudinal profile.	NYCDEP/ GCSWCD SMP Contract	Years 1, 2, 3 and 5 post- construction; schedule developed annually in January

		Annually, the GCSWCD and project partners monitor the native		
		riparian vegetation that has been installed along streambanks.		
		Riparian plantings are completed in conjunction with the		
		installation of natural channel designed (NCD) stream restoration		
		projects and CSBI projects. Vegetation provides for increased		
		stability as trees and shrubs continue to mature, and it is a critical		
		component to the long-term success of these types of projects.	NYCDEP/	Annually,
		Annual vegetation monitoring provides valuable information on	GCSWCD	Schedule
Vegetation	NYCDEP,	the effectiveness of restoration practices in addition to fulfilling	SMP	updated in
Monitoring	GCSWCD	the permit requirements associated with these projects.	Contract	January

STREAM RESTORATION AND STABILIZATION RECOMMENDATIONS

- 1. Identify locations where roads, bridges, or culverts and water quality may be threatened by SMP prioritized bank erosion, or are otherwise unstable or threatened, and make prioritized recommendations for their treatment.
- 2. Identify locations where improved or residential areas and water quality may be threatened by bank erosion, and make prioritized recommendations for their treatment.
- 3. Identify locations of stream instabilities contributing to water quality impairment and make prioritized recommendations for their mitigation or treatment.
- 4. Implement stream stability restoration projects that have been identified through field assessments or prioritized in management plans.
- 5. Governmental landowners in the Schoharie Creek watershed should manage their lands using natural channel stability concepts, and should serve as a model for other watershed landowners.

STREAM RESTORATION AND STABILIZATION					
Action Item	Partners	Description	Funding	Status	
				On-going,	
		The GCSWCD, NYCDEP and project partners will continue		maintenance	
		to work to maintain project sites throughout the Schoharie		plan	
	NYCDEP,	Creek watershed. This may include, but is not limited to,	NYCDEP/	developed	
Operation and	GCSWCD,	supplemental planting, bioengineering, minor repairs, general	GCSWCD	annually in	
Maintenance	Landowners	maintenance and assessments as needed.	SMP Contract	Spring	
		Project 1 of a full-channel restoration project located on the			
		Batavia Kill at the border of Ashland and Prattsville will be			
		implemented in multiple phases. This project will result in			
		stabilization of eroding streambanks and protection of water			
Batavia Kill		quality by reducing fine sediment sources along this high-	SMIP,		
Restoration at		turbidity producing reach of stream. Phase I Gravel Access	GCSWCD/		
Red Falls	GCSWCD,	Road and Rock Lined Dewatering Channel, Completed 2020;	NYCDEP		
Project 1	NYCDEP	Phase II Lower Reach Stream Restoration, 2021.	SMP Contract	Active	

F	1		1	
Batavia Kill Restoration at Red Falls Project 2	GCSWCD, NYCDEP	Project 2 of a full-channel restoration project located on the Batavia Kill at the border of Ashland and Prattsville will be implemented in multiple phases. This project will result in stabilization of eroding streambanks and protection of water quality by reducing fine sediment sources along this high-turbidity producing reach of stream. Phase I Upper Reach Stream Restoration, 2022; Phase II Site Restoration, 2022.	GCSWCD/ NYCDEP SMP Contract	Active
West Kill above Wolff Road	GCSWCD, NYCDEP	The West Kill above Wolff Road stream project was identified through the stream feature inventory (SFI) that informed the West Kill Stream Management Plan (2005) and reevaluated in 2018. Due to the extent of active erosion, this site was identified as a priority for restoration. The stream repair project will halt the headcut that has led to erosion of the approximately 30' – 75' high and 500' long streambank. The assessment, design and permitting for this project are in progress. Implementation of this project is planned for 2022.	GCSWCD/ NYCDEP SMP Contract	Active
Windham Path Bank Stabilization Design	GCSWCD, NYCDEP	The Windham Path Bank Stabilization Design project involves the development of a restoration design for an unstable section of the Batavia Kill that poses a threat to the stability of the Windham Path. Design expected to be complete spring 2021.	SMIP	Active
Windham Path Bank Stabilization Implementation	GCSWCD, NYCDEP	The Windham Path Bank Stabilization project will address the bank retreat along a section of the Batavia Kill that poses a threat to the stability of the Windham Path. The project will serve to protect the recreational resource while reducing impacts to water quality associated with erosion of fine sediment. Project construction is planned for summer 2021 and is expected to be complete by September 2021.	SMIP	Active

STREAM STEWARDSHIP AND STREAM ACCESS EDUCATION AND OUTREACH RECOMMENDATIONS

- 1. Collaborate with local and regional partners to enhance education and outreach efforts related to stream and floodplain management, sediment and erosion control, and other topics critical to sound watershed management.
- 2. Maintain a watershed website to provide information to watershed stakeholders.
- 3. Develop publications focused on stream management which can be provided to watershed stakeholders and/or used in training workshops.
- 4. Host a Schoharie Watershed Educational Event Series with various events and activities planned for watershed residents and visitors to promote awareness and stewardship.
- 5. Increase public and technical awareness about the importance of the Schoharie Creek watershed and ecosystem by providing educational workshops for a variety of stakeholders including, riparian landowners, municipal leaders, planning boards, code enforcement personnel, highway departments, local businesses, contractors, developers and educators.
- 6. Increase technical awareness of stream science, water quality protection and best management practices by providing educational workshops for a variety of stakeholders including, riparian landowners, municipal

leaders, planning boards, code enforcement personnel, highway departments, local businesses, contractors, developers and educators.

- 7. Develop detailed, science based guidelines to stream management which are readily available to those entities responsible for stream activities in the Schoharie Creek watershed. Guidelines must emphasize natural channel stability.
- 8. Develop an interesting, hands-on display and accompanying presentation that could travel with staff or volunteers to public places. Include the definition of a watershed, how people affect the watershed in their daily lives, the importance of a healthy watershed and what they can do to help improve water quality.
- 9. At public stream access sites, provide educational materials, such as signage, that may lead to an increased stewardship ethic for the stream.

Action Item	Partners	Description	Funding	Status
	N. V. G.D. E.D.	The GCSWCD continues to work with NYCDEP and others to develop and implement a comprehensive education and outreach strategy with goals submitted annually in January. The GCSWCD will help identify	GCSWCD/	Annually,
Annual Education	NYCDEP, GCSWCD,	educational needs and plan educational activities for a wide	NYCDEP SMP	Schedule
and Outreach Plan	SWAC	range of audiences; educational activities may be basin- wide or specific to individual sub-basins.	Contract, WAP, CWC	updated in January
Schoharie Watershed Educational Event Series	GCSWCD, NYCDEP, local schools, TU, CWC, WAC, CGCCE, DEC, SWAC	Community involvement and awareness is important for promoting the protection of streams and their watersheds. Schoharie Watershed Educational Event Series will be hosted throughout the year, and will provide watershedwide educational and recreational events. The events will provide multiple opportunities for watershed residents, students, community groups, tourists, officials and others to get to know their stream and the resources available to help provide watershed protection. The ability for GCSWCD/NYCEP to provide educational events may be limited due to the on-going COVID pandemic.	SMIP GCSWCD/ NYCDEP SMP Contract,	Annually
Series	NYCDEP,	The annual conference, which began in 2007, is organized for local municipal officials, county and non-profit agencies, highway departments, regulatory agencies and engineering firms active in the Schoharie Basin, and offers training in relevant water resources management, regulations, land use, and stormwater management. Credits for planning board members are provided. The 2021 Schoharie Watershed Summit will be held as a series of	GCSWCD/	Aimuany
Schoharie	GCSWCD,	virtual events, instead of an in-person conference, due to the	NYCDEP SMP	
Watershed Summit	SWAC ,	on-going COVID pandemic.	Contract	Annually

	T	a construction of		I
		Success of SMP implementation requires community		
		awareness and involvement. In order to keep watershed		
		communities and interested stakeholders informed of SMP		
		implementation progress and activities, the GCSWCD and		
		its partners may use a variety of outreach media including		
		newspaper articles, an "e"-newsletter, program print	CCCTTCD	
		newsletter, brochures, facts sheets, project announcements,	GCSWCD/	
		media contacts, press releases and kiosks. Throughout the	NYCDEP SMP	
· ·	NWCDED	year, GCSWCD attends and/or hosts meetings that provide	Contract, CWC,	
Community	NYCDEP,	educational and outreach opportunities for Schoharie	GCSWCD-	
Outreach	GCSWCD	Reservoir watershed stakeholders.	WAP	On-going
	NYCDEP,	The occurrence with the state of the state o		
	GCSWCD	The GCSWCD will continue to provide logistical support in		
~	Schoharie	the development and maintenance of the Catskill Streams	NYCDEP/	
Catskill Streams	SMP	Website as a valuable tool for sharing information with	GCSWCD	
Website	Contract	watershed stakeholders.	SMP Contract	On-going
Greene County Soil		The GCSWCD will continue to maintain and update the	GCSWCD,	
& Water		District's website. The website is a valuable tool for	NYCDEP/GCS	
Conservation		sharing information with watershed residents and	WCD SMP	
District Website	GCSWCD	stakeholders.	Contract	On-going
		The GCSWCD and partners offer watershed-related		
		demonstrations using educational models to present		
		programming about streams, watersheds and floodplains.		
		The models offered include the Enviroscape, Stormwater		
		Floodplain Simulation System, an augmented reality		
		sandbox and a stream table. The educational model		
		demonstrations may be presented in classrooms, at public	NYCDEP/	
Educational Model	NYCDEP,	events, during summer camps or other educational	GCSWCD SMP	
Demonstrations	GCSWCD	programs offered throughout each year.	Contract	On-going
Greene County Soil		The GCSWCD is developing an improved website format.		
& Water		Upgrades will include redesigning the layout, format, map	GCSWCD,	
Conservation		imagery and navigation of the website. Content within the	NYCDEP/GCS	
District Website		website will also be updated. Redesign of the website will	WCD SMP	
Redesign	GCSWCD	be completed in 2021.	Contract	Active
readingin	GEBTTED	The Town of Windham will implement a project to design,	Contract	7101110
		manufacture and install two educational panels and support		
		materials for a viewing platform within CD Lane Park. The		
		park is an outdoor recreational park along the Batavia Kill,		
		downstream of the flood control structure. Educational		
		panels will include information about the Batavia Kill		
	NYCDEP,	watershed, the history of the flood control dam, and local		
CD Lane Park	GCSWCD,	environmental and park information. Implementation of the		
Educational Panels	Windham	project is planned for spring and summer 2021.	SMIP	Active
		The Mountain Top Arboretum will implement a project to		
		design, manufacture and install two interpretive signs for		
Mountain Top		the Arboretum's rain gardens. The signs will inform visitors		
Arboretum – Rain		about the purpose and importance of rain gardens and the		
Garden Interpretive		role rain gardens play in protecting water quality,		
Signage &	Mountain	particularly within the Schoharie Reservoir drainage basin.		
Educational	Top	Project design will occur in 2021; sign fabrication and		
Materials	Arboretum	installation will occur in 2022.	SMIP	Active

Stream Stability and Water Quality 2	2021-2023
--------------------------------------	-----------

Village of		The Village of Tannersville will hold an Earth Day Celebration with activities and education programs that		
Village of		may include a steam clean up and hands-on watershed	ļ '	
Tannersville Earth	Village of	exhibits. Promotional materials for this event will be	ļ	
Day Celebration	Tannersville	developed in coordination with SWSMP staff.	SMIP	Active

B. Floodplain Management and Planning

Floodplain management and planning may include: floodplain assessments; coordination of floodplain management efforts in the watershed; and outreach, education and technical assistance for floodplain management in the Schoharie Watershed.

LOCAL FLOOD ANALYSIS AND FLOODPLAIN ASSESSMENT RECOMMENDATIONS

- 1. Identify locations where roads, bridges, or culverts may be threatened by flooding, and make prioritized recommendations for their treatment.
- 2. Identify locations where improved or residential areas may be threatened by flooding, and make prioritized recommendations for their treatment.
- 3. Support flood hazard mitigation efforts to reduce the impacts from flooding such as impacts to public safety, homes and businesses, infrastructure and the natural environment.
- 4. Through LFA provide resources to help WOH municipalities: confirm that there is a significant flood inundation hazard in the target area through engineering analysis; use engineering analysis to develop a range of hazard mitigation alternatives; the primary focus of the analysis is to identify the potential for reducing flood elevations through channel and floodplain restoration, as the first alternative to other hazard mitigation solutions; evaluate both the technical effectiveness and the benefit/cost effectiveness of each solution, and compare different solutions to each other for the most practical, sustainable outcome.

LOCAL FLOOD ANALYSIS AND FLOODPLAIN ASSESSMENT				
Action Item	Partners	Description	Funding	Status
	GCSWCD, NYCDEP,	A local flood analysis (LFA) is being conducted for the designated hamlet areas in the Town of Jewett. The LFA will help to determine the causes of flooding, investigate and analyze the overall potential of specific projects, and projects in combination, in an attempt to mitigate flood damages and	SMIP, NYCDEP/ GCSWCD	
Jewett Local Flood Analysis	Town of Jewett	hazards. A kick off meeting for the Jewett LFA was held March 2021.	SMP Contract	Active
THAI JOSO		Assessment of Sawmill Creek instability along Railroad Avenue was an LFA recommended project. A detailed assessment of this reach of the Sawmill was conducted in 2019 and recommendations were provided for the stabilization of		120000
Sawmill Creek	GCSWCD, NYCDEP,	approximately 600 feet of the channel and embankment. This project involves further assessment and design for stabilizing the Sawmill Creek and reducing flood risk to public infrastructure.	SMIP, NYCDEP/ GCSWCD	
Embankment Stabilization Design	Village of Tannersville	The advanced design and permitting for this project are in progress.	SMP Contract	Active

LOCAL FLOOD ANALYSIS IMPLEMENTATION, FLOODPLAIN MANAGEMENT COORDINATION, EDUCATION AND OUTREACH RECOMMENDATIONS

- 1. The GCSWCD should support local municipalities in the use of FIRM maps.
- 2. Municipalities in the watershed should conduct a review of current floodplain ordinances and adopt revisions as appropriate. Revisions should reflect current building trends, new technologies, compliance and integrated broader community plans as appropriate.
- 3. Schoharie Watershed municipalities should evaluate participation in the FEMA Community Rating System.
- 4. Access to flood prevention/protection information should be established and supported throughout the Schoharie Creek Watershed.
- 5. Watershed municipalities, working with local and state agencies, should support periodic training sessions on flood related issues. Audiences should include municipal leaders, code enforcement staff, planning boards, landowners, realtors, lending institutions and others.
- 6. Watershed municipalities should facilitate development of a flood damage reporting system to track types of flooding, their location and the costs associated with flood damage.
- 7. Stream and floodplain management guidelines, which integrate stream form and function, should be developed for use during post flood response.
- 8. Identify locations where roads, bridges, or culverts may be threatened by bank erosion or flooding, or are otherwise unstable or threatened, and make prioritized recommendations for their treatment. Implement projects that will minimize impacts of flooding, prioritize the implementation of LFA recommended projects.
- 9. Identify locations where improved or residential areas may be threatened by bank erosion or flooding, and make prioritized recommendations for their treatment. Implement projects that will minimize impacts of flooding, prioritize the implementation of LFA recommended projects.

LFA IMPLEMENTATION, FLOODPLAIN MANAGEMENT COORDINATION, EDUCATION AND OUTREACH				
Action Item	Partners	Description	Funding	Status
		The NYCDEP flood buyout program was initiated in		
		2017. GCSWCD facilitates the program and serves as the		
	NYCDEP,	technical and outreach lead for some Schoharie Watershed		
	GCSWCD,	municipalities. The program began with erosion hazard	NYCDEP/	
	Schoharie	buyout properties. GCSWCD continues to provide	GCSWCD	
NYCDEP Flood	Watershed	outreach and assessment support the leads for NYC flood	SMP	
Buyout Program	Municipalities	buyout program in the Schoharie Reservoir watershed.	Contract	On-going
	NYCDEP,	Provide support for municipalities to identify and		
	GCSWCD,	coordinate flood mitigation efforts. Assist municipalities	NYCDEP/	
	Schoharie	with critical community structures and facilities in at-risk	GCSWCD	
LFA Mitigation	Watershed	locations, and help coordinate implementation of flood-	SMP	
Coordination	Municipalities	proofing or relocation measures as a means of mitigation.	Contract	On-going
Technical	NYCDEP,	GCSWCD and partners will provide technical support and		
Support for LFA	GCSWCD,	mapping assistance for relocation projects that have been	NYCDEP/	
Recommended	Schoharie	recommended in a municipality's local flood analysis. The	GCSWCD	
Relocation	Watershed	municipalities will reach out to GCSWCD as technical	SMP	
Projects	Municipalities	assistance is needed.	Contract	On-going

C. Highway and Infrastructure Management in Conjunction with Streams

Highway and infrastructure management in conjunction with streams may include: best management practices (BMPs) to improve infrastructure and stream intersections; stormwater management; and outreach, training and financial assistance to infrastructure managers to demonstrate BMPs.

HIGHWAY, INFRASTRUCTURE AND STORMWATER MANAGEMENT RECOMMENDATIONS

- 1. Local municipalities, Greene County Highway Department and NYSDOT should place a priority on vegetation management on critical areas such as roadside ditches and steep slopes.
- 2. Watershed municipalities should evaluate winter road abrasive procedures to address abrasive quality, application methods and spring sweeping.
- 3. The Town and County Highway Departments and NYSDOT should integrate geomorphology principles in all new projects and routine maintenance activities related to the Schoharie Watershed.
- 4. Work with local highway departments to minimize the negative effects of bank armor through the use of vegetation within and above the armor. Replant existing rip rap. This will both increase the effectiveness and strength of the rip rap and cool water temperatures through shading and reducing the thermal effects of heated rock.
- 5, Work with the SWAC Highway Committee to identify opportunities to address infrastructure that is leading to stream instability and water quality degradation.

HIGHWAY, INFRASTRUCTURE AND STORMWATER MANAGEMENT				
Action Item	Partners	Description	Funding	Status
		Stream Management Plans and the SWAC Highway and		
		Infrastructure subcommittee recommend that local		
	GCSWCD,	municipalities, county highway departments and NYSDOT	SMIP,	
	NYCDEP,	should place priority on vegetation management on critical	NYCDEP/	
Critical Area	County &	areas such as roadside ditches and steep slopes. GCSWCD	GCSWCD	
Seeding and Slope	Municipal	continues to partner with all highway departments to provide	Schoharie	
Stabilization	Highway	critical area seeding for roadside ditches and slopes using the	SMP	
Program	Departments	district's hydroseeder and power mulcher.	Contract	On-going
	NACDED			
County Route 2	NYCDEP,	The Greene County Highway Department, in coordination with		
over Unnamed	GCSWCD,	GCSWCD and project partners, will design a replacement		
Tributary to	GCHD,	structure that will convey the flow of an unnamed tributary to		
Schoharie Creek	Town of	the Schoharie Creek under County Route 2 in the Town of		
Bridge Design	Lexington	Lexington. Design expected to be complete spring 2021.	SMIP	Active
		The Lexington Highway Department, in coordination with		
	NYCDEP,	GCSWCD and project partners, will design a replacement		
	GCSWCD,	culvert. The culvert conveys the flow of an unnamed tributary		
Rappleyea Road	Town of	to the Schoharie Creek under Rappleyea Road in the Town of		
Culvert Design	Lexington	Lexington. Design expected to be completed spring 2021.	SMIP	Active

		The Greene County Highway Department will work with		
		GCSWCD and project partners to replace a culvert that conveys		
County Route 2		the flow of an unnamed tributary to the Schoharie Creek under		
over Unnamed	NYCDEP,	County Route 2 in the Town of Lexington. This project will		
Tributary to	GCSWCD,	improve the resiliency of flow conveyance infrastructure during		
Schoharie Creek	GCHD,	future flood events while also improving stream channel		
Culvert	Town of	stability and aquatic and terrestrial organism passage. Project		
Replacement	Lexington	construction is planned for summer/fall 2021.	SMIP	Active
Replacement	Lexington	The Lexington Highway Department, in coordination with	SIVIII	Active
		GCSWCD and project partners, will replace a culvert that		
		conveys the flow of an unnamed tributary to the Schoharie		
		Creek under Rappleyea Road in the Town of Lexington. This		
Domelovas Dood	NVCDED			
Rappleyea Road Culvert	NYCDEP,	project will improve the resiliency of flow conveyance		
0.007.010	GCSWCD,	infrastructure during future flood events, while also improving		
Replacement	Town of	stream channel stability, and aquatic and terrestrial organism	CMID	A
Project	Lexington	passage. Project construction is planned for summer 2021.	SMIP	Active
		The Greene County Highway Department will work with		
		GCSWCD and project partners to repair the road embankment		
		of County Route 17, along the East Kill in the Town of Jewett.		
		In December 2020, the road was damaged during a high flow		
		event and its repair is critical in order to reopen the road and		
		mitigate potential hazards during emergency response. This		
		project will improve the resiliency of highway infrastructure		
		while minimizing bed and bank scour during future high flows,		
County Route 17	NYCDEP,	thereby reducing entrainment of fine sediment to the East Kill,		
Embankment	GCSWCD,	Schoharie Creek and Reservoir. Project construction is planned		
Stabilization	GCHD	for summer/fall 2021.	SMIP	Active

RECOMMENDATIONS FOR OUTREACH AND TECHNICAL SUPPORT TO HIGHWAY DEPARTMENTS, STORMWATER MANAGERS, AND CONTRACTORS

- 1. Provide municipal highway departments and local contractors with hands-on training in various stream management activities. Conduct field days, workshops and demonstration projects to meet this goal.
- 2. Educate and train municipal highway departments in stream process, and provide them with information about how maintenance of road systems and other public infrastructure may impact local waterways.
- 3. Provide education and outreach to municipal highway departments, stormwater managers and contractors to improve their ability to recognize changes in stream stability and impacts to water quality that may be associated with infrastructure management activities and to understand the impact of any management action they may take.

OUTREACH & TECHNICAL SUPPORT TO HIGHWAY DEPARTMENTS, STORMWATER MANAGERS & CONTRACTORS				
Action Item	Partners	Description	Funding	Status
		This training provides information on the GP-0-15-002 permit		
		stormwater concerns. The training also informs participants about the		
		requirements of stormwater pollution prevention plans (SWPPP). The		
		target audience for the training includes contractors, engineers, local		
NYS DEC endorsed		government, and watershed residents. Participants learn about erosion		
Erosion and		and sediment control practices and how to perform site inspections, and		
Sediment Control		how to obtain technical assistance on erosion and sediment control		
Required	NYSDEC,	problems. A training was planned for 2020, but was canceled due to		
Construction	NYCDEP,	COVID. GCSWCD is planning to host a training, the date of the training	NYCDEP,	
Activity Training	GCSWCD	has not yet been determined due to the on-going COVID pandemic.	GCSWCD	Active

D. Riparian Buffer Assistance for Streamside Landowners (Public and Private)

Assisting public and private streamside landowners may include: providing access to training and technical information to increase water resource knowledge, skills and capabilities of landowners; and providing technical assistance and programmatic support for stream issues and riparian restorations.

RIPARIAN BUFFER PROGRAMS AND ENHANCEMENTS

- 1. Preserve and protect existing riparian buffers and provide for improved stewardship.
- 2. Efforts should be made to protect/enhance the stream corridor through the establishment of effective forested buffers. Stream buffers will offer some measure of protection against encroaching land uses and act to protect public and private property.
- 3. Assist landowners with their efforts to protect and maintain healthy riparian buffers, address invasive species, and improve the condition of unstable or degraded riparian areas.
- 4. Provide assistance with managing and preventing the spread of Japanese knotweed and other invasive species.
- 5. Provide assistance for streamside landowners to maintain diverse and healthy riparian buffers of at least 35-100 feet using native shrubs, trees and other woody vegetation.
- 6. Provide interested streamside landowners plant materials appropriate for use during riparian buffer restoration and enhancement projects.

RIPARIAN BUFFER PROGRAMS AND ENHANCEMENTS					
Action Item	Partners	Description	Funding	Status	
		The CSBI informs and assists landowners in better stewardship of			
		their riparian area through protection, enhancement, management, or			
		restoration. GCSWCD conducts site visits, with landowners			
		interested in the CSBI program, to recruit future riparian buffer			
		planting projects. To support landowners, GCSWCD provides			
Catskill Streams		Riparian Corridor Management Plans, designs and installs riparian			
Buffer Initiative	GCSWCD,	planting projects, and provides education materials and activities for			
(CSBI)	NYCDEP	streamside landowners.	CSBI	On-going	
		GCSWCD will continue to maintain its Plant Material Center,			
		stocked with species native to the Catskills, in a way necessary to			
		hold over/grow out native plant material to be used at stream			
		restoration sites and Catskill Streams Buffer Initiative (CSBI)			
		sites. Tasks include the ordering of plant material, willow			
		harvesting, maintaining an inventory of the plants in the PMC,	NYCDEP/		
Plant Materials	NYCDEP,	clearing plants of harmful weeds, watering as frequently as	GCSWCD		
Program	GCSWCD	necessary and re-potting materials if they outgrow their containers.	Contract	On-going	
			NYCDEP/		
Plant Material	NYCDEP,	GCSWCD will add deer fencing around the planting area of the	GCSWCD		
Center Upgrades	GCSWCD	Plant Material Center in 2021.	Contract	Active	
Center Opgrades	GCSWCD	1 faint Material Cellier III 2021.	Commaci	Active	

Ashland Town	GCSWCD, NYCDEP,	GCSWCD obtained landowner agreement with the Town of Ashland, graded 1,250 feet of streambank and controlled 0.77 acre of Japanese knotweed in 2018. In 2019, GCSWCD installed 20 balled and burlapped trees to enhance the riparian buffer. In 2020, GCSWCD chemically controlled 0.77 acre of Japanese knotweed,		
Park Project	Ashland	and will continue to control JKW in 2021.	CSBI	Active
Japanese Knotweed	GCSWCD,	Treat Japanese knotweed with herbicides on stream restoration sites and Catskill Stream Buffer Initiative project sites. Sites will be	CSBI GCSWCD NYCDEP SMP	
Treatment	NYCDEP	treated in 2021 as needed.	Contract	Active
Weisberg Riparian Planting Site Preparation	GCSWCD, NYCDEP	GCSWCD chemically controlled 0.25 acre of Japanese knotweed along the Schoharie Creek in Lexington, NY. Japanese knotweed management efforts will continue in 2021 in order to prepare the site for native riparian plantings.	CSBI	Active
DEP Robinson Riparian Planting	GCSWCD, NYCDEP	Riparian planting to restore 0.1 acre of streamside vegetation along the Red Kill in Hunter, NY. GCSWCD installed 50 native trees and shrubs along 150 feet of streambank in spring 2021.	CSBI	Active
Blitz Riparian Planting	GCSWCD, NYCDEP	Riparian planting to restore 0.46 acre of streamside vegetation along a West Kill tributary in West Kill, NY. GCSWCD plans to plant 225 native trees and shrubs along 300 feet of streambank in spring 2021.	CSBI	Active
Levin Riparian Planting	GCSWCD, NYCDEP	Riparian planting to restore 0.11 acre of streamside vegetation along a West Kill tributary in, NY. GCSWCD plans to plant 46 native trees and shrubs along 225 feet of streambank in spring 2021.	CSBI	Active

OUTREACH, EDUCATION AND TECHNICAL ASSISTANCE TO STREAMSIDE LANDOWNERS

- 1. Provide streamside landowners detailed technical information on the establishment and maintenance of riparian buffers.
- 2. Provide stakeholders technical assistance that will guide restoration of stream system stability and help to maintain ecological integrity. Technical assistance can range from a landowner consultation to activities that will help meet the priorities of protecting water quality and establishing riparian buffers.
- 3. Provide long-term access to technical assistance to landowners and municipalities for assessment of their stream-related problems, and development of effective management strategies and to supervise stream project implementation.
- 4. Educate streamside landowners by providing a basic understanding of fluvial process, factors impacting streambank stability and water quality, and management decisions for the promotion of a healthy stream.
- 5. Characterize current riparian vegetation management in the watershed and make prioritized recommendations for changes that can improve ecosystem integrity.
- 6. Educate municipal leaders by providing a basic understanding of fluvial process, with an emphasis on how local decision makers can support stream health through their leadership and provide information on the multiple benefits which can be realized by protecting stream and watershed health.

RIPARIAN BUFFER OUTREACH, EDUCATION AND TECHNICAL ASSISTANCE					
Action Item	Partners	Description	Funding	Status	
		The GCSWCD and NYCDEP have worked cooperatively to develop program resources and policies to provide technical assistance for municipalities, planning boards, highway departments, developers, landowners and other interested parties. Technical assistance may include, but is not limited to, stormwater planning and retrofit, stream	NYCDEP/ GCSWCD		
Local Technical	GCSWCD,	management activities, project permitting, and land use	Schoharie,		
Assistance	NYCDEP	planning.	WAP	On-going	
Streamside Landowner Workshop	GCSWCD, NYCDEP	The GCSWCD will provide a Streamside Landowner Workshop that will be available for streamside landowners with the Schoharie Reservoir Drainage Basin. Attendees will learn how to establish and increase the riparian buffer zone on their own property, and discover funding opportunities through the CSBI. A planned workshop for 2020 was canceled due to the COVID pandemic. The GCSWCD/NYCDEP will offer a virtual workshop in 2021.	NYCDEP/ GCSWCD CSBI	Active	
Multifunctional Riparian Buffer Guide		The Cornell Cooperative Extension of Columbia & Greene Counties will develop a Multifunctional Riparian Buffer (MFRB) Guide and deliver two workshops to present the curriculum of the guide. MFRBs are designed to protect riparian buffers with native vegetation while also planting multi-purpose production species. The guide and workshop curriculum will be developed between January – June 2021. Workshops are planned for fall 2021 and			
and Workshop Series		spring 2022.	SMIP	Active	

E. Protecting and Enhancing Aquatic and Riparian Habitat and Ecosystems

Protecting and enhancing aquatic and riparian habitat and ecosystems may include: support for research and education programs that encourage protection of aquatic and riparian ecosystems; support for comprehensive and community planning efforts that incorporate watershed protection; and support for habitat improvement projects that will benefit water quality.

STREAM AND RIPARIAN ECOSYSTEM RECOMMENDATIONS

- 1. Review existing water quality data and identify, to the extent possible, the most significant water quality impairments.
- 2. Identify locations of potential water quality impairments including; sources of pollution from upland areas and within the stream channel, such as significant glacial lake clay exposures, and sources of contaminants from road runoff and households, and make prioritized recommendations for their mitigation.
- 3. Characterize the status of stream ecosystem health utilizing existing fish and insect population data, and outlining the general threats to ecosystem health and integrity.
- 4. Conduct a watershed aquatic habitat study including; mapping habitats and associated characteristics throughout Schoharie Creek, characterization of fish species presence or absence in those habitats, establish target fish community structure based on regional and historic fish community data, and make recommendations for improvement of habitat for target community.
- 5. A habitat assessment should be conducted in the Schoharie Creek and major tributaries, with particular attention paid to thermal refuge for cold water fish. Monitor summer season stream temperatures and associated impacts on fisheries. Identify areas where habitat improvements might mitigate these impacts, and areas of thermal refuge that may need protection.

STREAM AND RIPARIAN ECOSYSTEM ASSESSMENT AND ENHANCEMENT					
Action Item	Partners	Description	Funding	Status	
	NYSDEC,	The New York State Department of Environmental Conservation			
	Trout	and the Trout Unlimited will conduct a Brook Trout Genetic Study			
	Unlimited,	on the Hunter Brook population with the West Kill Watershed.			
Brook Trout	GCSWCD,	GCSWCD staff will coordinate with project partners and support	Trout		
Genetic Study	NYCDEP	this effort as needed. Genetic samples were collected in 2020.	Unlimited	Active	

WATERSHED PROTECTION AND COMMUNITY PLANNING RECOMMENDATIONS

- 1. Establish and maintain a comprehensive program that supports localized efforts and mobilization of the public for stream stewardship and the coordination of agencies, interest groups, municipalities, and stakeholders in community planning and watershed protection.
- 2. Watershed municipalities should evaluate their existing land use regulations, and adopt provisions which will protect stream corridor resources including wetlands, floodplains and floodways and provide additional local review for proposed development in these special areas.
- 3. A watershed-wide evaluation of regulations, including ordinances and zoning laws, should be undertaken. The evaluation should seek to identify regulatory gaps and determine if the current laws and ordinances adequately protect the watershed and encourage municipalities to update their regulations as needed.
- 4. Establish and support a Project Advisory Committee consisting of representatives of all significant stakeholder groups to coordinate the implementation of stream management plans.
- 5. Watershed municipalities should evaluate local ordinances such as comprehensive plans, zoning regulations, site plan review laws, subdivision laws and floodplain ordinances to determine if adequate consideration is given to riparian buffer impacts.
- 6. Watershed communities should integrate the evaluation of stormwater impacts on stream systems as they develop and implement comprehensive stormwater management plans which will protect water quality and reduce impacts on stream morphology.
- 7. Identify locations of potential water quality impairments including; source of pollution from upland areas and within the stream channel such as significant glacial lake clay exposures, and sources of contaminants from road runoff and households, and make prioritized recommendations for their mitigation.

WATERSHED	WATERSHED PROTECTION AND COMMUNITY PLANNING					
Action Item	Partners	Description	Funding	Status		
	Schoharie	The organizational structure of the Schoharie Watershed Advisory				
	Basin	Committee (SWAC) was developed in early 2008. The SWAC has		Organized		
Schoharie	Municipalities,	met regularly to collaborate with the SWSMP on stream		May		
Watershed	Technical	management and implementation efforts. Administrative support	NYCDEP/	2008,		
Advisory	Advisors,	for the SWAC remains an on-going activity, with SWAC member	GCSWCD	meet two		
Committee	GCSWCD,	reappointments, collaboration with municipalities on stream issues,	SMP	times per		
(SWAC)	NYCDEP	and SWAC meetings.	Contract	year		
		The Mountaintop Supervisors and Mayors Associations, Towns of				
		Jewett and Lexington and other project partners will collaborate to				
Mountain		develop the extension of the Mountain Cloves Scenic Byway	NYCDEP/			
Clove Scenic	GCSWCD,	(MCSB) Corridor Management Plan (CMP) for Hunter to include	GCSWCD			
Byway	NYCDEP,	the Towns of Jewett and Lexington. The MCSBCMP is a plan to	SMP			
Corridor	MSMA,	maintain and enhance the historical, cultural, recreation, scenic and	Contract/			
Management	Jewett,	natural resources. The plan will provide strategies for outreach and	NYSDEC/			
Plan Extension	Lexington	stewardship efforts to protect byway resources.	SMIP	Active		

F. Enhancing Public Access to Streams

Enhancing public access to streams may include: support for projects that improve the quantity and quality of public stream access and enhance stream-based recreational opportunities; and support for projects that provide water resource educational materials at public access points. These recommendations incorporate community development efforts into stream management.

ENHANCING PUBLIC ACCESS TO STREAMS RECOMMENDATIONS

- 1. Public access for fishing should be enhanced along the Schoharie Creek stream corridor. Additional public access, as well as improvements to parking and access trails, is representative of the type of activities that may be possible.
- 2. Investigate opportunities to develop multi-use, low impact trail systems along the stream corridor.

ENHANCING PUBLIC ACCESS TO STREAMS						
Action Item	Partners	Description	Funding	Status		
Hunter Branch Rail Trail	NYCDEP, GCSWCD, Town of Hunter	The Hunter Area Trail Coalition (HATC) will construct a pedestrian bridge, over Clove Creek, on the former Hunter Branch Railroad. Engineering and permitting are complete, and a NYSDEC Smart Growth grant was awarded to this project.	SMIP	Active		
Huntersfield Creek Falls Trail	NYCDEP, GCSWCD, Town of Prattsville	The Huntersfield Creek Falls Trail is a 1-mile loop trail with a portion of the trail bordering Huntersfield Creek. The Town of Prattsville and project partners will construct and install a boardwalk, small foot bridge and interpretative kiosk, and trail signage in spring 2021.	SMIP	Active		

Appendix A: Summary of Completed Projects May 2007 – May 2021

Action Item	Partners	Description	Funding	Status
		The GCSWCD and NYCDEP worked with NYSDEC to	J	
		evaluate alternatives and to offer training to address the		
		complexity of achieving turbidity control during construction.		
		Two staff members have been trained as Certified Professional		
		Erosion and Sediment Control Specialists, one has been trained		
		as a Certified Professional in Stormwater Quality and the		
		majority of staff were trained as part of the NYSDEC 4-hour		
		erosion and sediment control certification. GCSWCD is also		
		qualified to teach the 4-hour E/S control certification.		
	GCSWCD,	GCSWCD purchased dewatering equipment for stream projects		
Restoration	NYCDEP,	and routinely prepares stormwater pollution prevention plans	NYCDEP/	Completed
Project Permits	NYSDEC	for all size projects.	GCSWCD	2007
		To manage the many projects and priorities in the action plan,		
		the GCSWCD needs staffing and resources to provide overall		
		project administration. In 2007, a staffing plan was developed		
Program		along with a new intergovernmental agreement between		
Administration	GCSWCD,	GCSWCD and NYCDEP that began in January 2009 and will	NYCDEP/	Completed
Staffing Plan	NYCDEP	fund watershed activities through January 2014.	GCSWCD	2007
		The GCSWCD and NYCDEP collaborated to establish a project		
		office within the Schoharie Watershed. The GCSWCD and		
		WAP identified and secured a Mountaintop project office in		
		Tannersville. The office is used by various local, regional, and		
		state committees working on watershed protection (e.g.		
	GCSWCD,	Schoharie Watershed Advisory Committee, subcommittees of		
	GCWAP,	the SWAC, Mountaintop Supervisory & Mayors Association,	NYCDEP/	Completed
Program Office	NYCDEP	WOH Education & Outreach committee, etc.).	GCSWCD	2008
		The Stream Management Implementation Program (SMIP) is a		
		collaborative program between GCSWCD, NYCDEP, and		
		municipalities within the Schoharie Reservoir watershed. This		
		program offers funding for government agencies, streamside		
		landowners, schools, and 501(c)(3) organizations involved in		
Stream		stream stewardship that fosters water quality protection and	NYCDEP/	
Management	GCSWCD,	enhancement. The program was established in 2008 and is	GCSWCD	
Implementation	NYCDEP,	administered through the Schoharie Watershed Stream	SMP	Organized
Program	SWAC	Management Program (SWSMP) at the GCSWCD.	Contract	May 2008
		To successfully implement a multi-year riparian buffer program		
		it was necessary to work with NYSDEC, USACOE, and		
	GCSWCD,	NYCDEP to develop a general permit to allow for rapid		
	NYCDEP,	planning and installation of riparian buffers. The general permit		
Riparian Buffer	NYSDEC,	applies to minor (less than 300 ft.), short-term impacts such as,	NYCDEP/	Completed
General Permit	USACOE	bank preparation and planting.	GCSWCD	2009
		Completed an RFP process to develop a list of "pre-qualified"		
General		contractors for work including but not limited to, installing		
Contracting	GCSWCD,	stormwater management practices, drainage improvements, and	NYCDEP/	Completed
Specification	NYCDEP	stream projects.	GCSWCD	2009

	Schoharie Basin	All Greene County municipalities within the Schoharie Basin and sub-basins (Batavia Kill, East Kill and West Kill watersheds) and the Town of Conesville (Manor Kill) have adopted the relevant SMPs and signed Memoranda of Understanding (MOU) with GCSWCD and SCSWCD,		
	Municipalities,	respectively. Annual reviews occur with the municipalities per		
	Conesville,	the MOU and provide an update on current action items within		Completed
	GCSWCD,	the municipality, while also seeking input from municipal		2009,
Local Adoption	SCSWCD,	officials in identifying potential future projects based on local	NYCDEP/	renewed as
of SMPs	NYCDEP	needs.	GCSWCD	needed
Plant Materials				
Program:		In 2014, there were 20,401 Greenbelt plants delivered to the		
Greenbelt Plant	NYCDEP,	GCSWCD Plant Materials Center; 14,571 of the plants were	NYCDEP/	Completed
Material	GCSWCD	repotted. In 2015, approximately 5,830 plants were repotted.	GCSWCD	2015
		In 2020, Cycle 3 of the Stream Management Implementation		
Cycle 3 Stream		Program was initiated. For Cycle 3, SWSMP staff developed		
Management		new documents to support the program including: Schoharie	NYCDEP/	
Implementation	NYCDEP,	Watershed SMIP Guidelines and Requirements; SMIP	GCSWCD	
Program	GCSWCD,	Application; SMIP Reimbursement Form; SMIP Grant Closeout	SMP	Completed
Documents	SWAC	Report; SMIP Grant Agreements; and SMIP Project Tracking.	Contract	2020

STREAM ASSESSM	IENTS AND	MONITORING		
Action Item	Partners	Description	Funding	Status
Batavia Kill Stream Walkover	NYCDEP/ GCSWCD	Collected erosion data along the Batavia Kill in the Towns of Windham, Ashland and Prattsville.	NYCDEP/ GCSWCD	Completed 1997
West Kill Stream Walkover	NYCDEP/ GCSWCD	Collected stream feature data along the West Kill in the Town of Lexington.	NYCDEP/ GCSWCD	Completed 2004 & 2005
Schoharie Creek SFI	NYCDEP/ GCSWCD	Stream Feature Inventory (SFI) along the Schoharie Creek in the Towns of Hunter, Jewett, Lexington, and Prattsville.	NYCDEP/ GCSWCD	Completed 2006
East Kill SFI	NYCDEP/ GCSWCD	Stream Feature Inventory (SFI) along the East Kill in the Town of Jewett.	NYCDEP/ GCSWCD	Completed 2006
Manor Kill SFI	NYCDEP/ GCSWCD	Stream Feature Inventory (SFI) along the Manor Kill in the Town of Conesville.	NYCDEP/ GCSWCD	Completed 2008
Monitoring of Restored Reaches	NYCDEP/ GCSWCD	Five stream restoration sites were monitored in 2008.	NYCDEP/ GCSWCD	Completed 2008
Manor Kill Stream Management Plan	NYCDEP/ GCSWCD, SCSWCD, SCPD	In 2008, a stream feature inventory, riparian vegetation mapping, and a significant portion of the stream management plan were completed. The Manor Kill Management Plan was completed in 2009, and the Town of Conesville adopted it and signed an MOU for implementation with the Schoharie County SWCD. This project offered an opportunity to expand our partnership and planning area, to include the Schoharie County Planning Dept. and SWCD.	NYCDEP/ GCSWCD	Completed 2009
Survey of potential SPDES stream restoration site	NYCDEP/ GCSWCD	A site on the East Kill was selected as a potential SPDES stream restoration site due to its high contribution of fine sediments. One landowner was unwilling to grant GCSWCD permission for the required pre-design survey work. Survey is no longer planned for this site.	NYCDEP/ GCSWCD	Completed 2009
Monitoring of Restored Reaches	NYCDEP/ GCSWCD	In 2009, four stream restoration sites were monitored including, Conine, Ashland Connector Reach, Brandywine, and Farber Farm.	NYCDEP/ GCSWCD	Completed 2009

		Ţ	1	
		In 2009, vegetation monitoring of stream restoration and		
		Catskill Stream Buffer Initiative projects was completed for the		
		following sites: Shoemaker, RAH Stables, Long Road,		
Vegetation	NYCDEP/	Ashland, Conine, Sugar Maples, Lanesville, Farber Farms, and	NYCDEP/	Completed
Monitoring	GCSWCD	Carr Road.	GCSWCD	2009
Dale Lane Survey				
and Hydraulic	NYCDEP/	Site survey was completed in 2009 and hydraulic analysis	NYCDEP/	Completed
Analysis	GCSWCD	using HEC RAS was completed in spring 2010.	GCSWCD	2010
<i>j</i>		Geotechnical assessment of a failing streambank in relation to		
		a private residence. Engineer concluded that the residential		
		structure was not currently threatened by the slope condition.		
Mauro Residence	NYCDEP/	Report provided to the homeowner and the bank was seeded		Completed
		and mulched.	SMIP	2010
Bank Stability	GCSWCD		SIVIIP	2010
T ' (0'11	NICODED/	Upon assessment, it was determined that the removal of the sill	NII/CDED/	G 1 . 1
Lexington Sill	NYCDEP/	would have little impact on the stream. No further action is	NYCDEP/	Completed
(Schoharie Creek)	GCSWCD	expected.	GCSWCD	2010
		Historical alignments, riparian vegetation mapping, watershed		
Tributary		analysis, stream feature inventory, and Geodatabases have been		
Assessment and	NYCDEP/	completed for Batavia Kill Tributaries North Settlement Creek,	NYCDEP/	Completed
Planning Projects	GCSWCD	Furnace/Red Falls Creek and Mad Brook.	GCSWCD	2010
<u> </u>		In 2010, six stream restoration sites were monitored including,		
Monitoring of	NYCDEP/	Conine, Ashland Connector Reach, Shoemaker, Lanesville,	NYCDEP/	Completed
Restored Reaches	GCSWCD	Sugar Maples, and Long Road.	GCSWCD	2010
restored redefies	GESTIEB	In 2010, vegetation monitoring of stream restoration and	GESTIEB	2010
		Catskill Stream Buffer Initiative projects was completed for the		
T T	NH/GDED/	following sites: Shoemaker, RAH Stables, Long Road, ACR,	NII (CDED)	G 1 . 1
Vegetation	NYCDEP/	Conine, Sugar Maples, Kastanis, Lanesville, Farber Farm, and	NYCDEP/	Completed
Monitoring	GCSWCD	Carr Road.	GCSWCD	2010
Monitoring of	NYCDEP/	In 2011, two stream restoration sites were monitored including,	NYCDEP/	Completed
Restored Reaches	GCSWCD	Long Road and Sugar Maples,	GCSWCD	2011
110510104110401105	365 11 62	In 2011, vegetation monitoring of stream restoration and	30202	2011
		Catskill Stream Buffer Initiative projects was completed for the		
Vegetation	NYCDEP/	following sites: Dodson, ACR, Conine, Kastanis, and Long	NYCDEP/	Completed
Monitoring	GCSWCD	Road.	GCSWCD	2011
Monitoring	GCSWCD	Koau.	GCSWCD	2011
		In 2012, five stream restoration sites were monitored including,		
Monitoring of	NYCDEP/	Ashland Connector Reach, Conine, Sugar Maples, Schoharie	NYCDEP/	Completed
Restored Reaches	GCSWCD		GCSWCD	_
Restored Reacties	GCSWCD	Street, and Long Road.	GCSWCD	2012
		In 2012, vegetation monitoring of stream restoration and		
T 7	NUCCEES!	Catskill Stream Buffer Initiative projects was completed for the	NUCCES!	
Vegetation	NYCDEP/	following sites: Dodson, Hensonville, North Settlement,	NYCDEP/	Completed
Monitoring	GCSWCD	Slutzky, and Valenti.	GCSWCD	2012
Monitoring of	NYCDEP/	In 2013, one stream restoration site, Vista Ridge, was	NYCDEP/	Completed
Restored Reaches	GCSWCD	monitored.	GCSWCD	2013
		In 2013, vegetation monitoring of stream restoration and		
		Catskill Stream Buffer Initiative projects was completed for the		
Vegetation	NYCDEP/	following sites: Kastanis, Hensonville, Slutzky, Cervini,	NYCDEP/	Completed
Monitoring	GCSWCD	Torsiello/Hegner, Valenti, Cole, and Mayo.	GCSWCD	2013
1,10111WIIIIg	SCSTCD	In 2014, eight stream restoration sites were monitored	GCSTCD	2013
Monitoring of	NVCDED/		NVCDED/	Completed
Monitoring of	NYCDEP/	including, Ashland Well Head, Maier, Conine, Sugar Maples,	NYCDEP/	Completed
Restored Reaches	GCSWCD	Holden, CR 6, SR 42, and Apple Hill.	GCSWCD	2014
		In 2014, vegetation monitoring of stream restoration and		
		Catskill Stream Buffer Initiative projects was completed for the		
Vegetation	NYCDEP/	following sites: Conine, Holden, Vista Ridge, Apple Hill,	NYCDEP/	Completed
Monitoring	GCSWCD	Hensonville, Cervini, Torsiello/Hegner, Slutzky, and Cole.	GCSWCD	2014
MOHIMINI	GCSWCD	Thensonvine, Cervini, Torsieno/Hegner, Stutzky, and Cole.	GCSWCD	201 7

		In 2015, 11 stream restoration sites were monitored including,		
3.6	NH/CDED/	Ashland Well Head, Brandywine/Ashland Connector Reach,	NIVGDED!	
Monitoring of Restored Reaches	NYCDEP/	Maier Farm, Conine, Holden, Long Road, CR 6, SR 42,	NYCDEP/	Completed
Restored Reaches	GCSWCD	Lanesville, Vista Ridge and Apple Hill. In 2015, vegetation monitoring of stream restoration and	GCSWCD	2015
		Catskill Stream Buffer Initiative projects was completed for the		
		following sites: Ashland Wells, Brandywine/ACR, Maier,		
		Conine, Holden, Vista Ridge, Apple Hill, Long Road,		
Vegetation	NYCDEP/	Lanesville, Kastanis, Kane, McRoberts, Avella, Brunsden,	NYCDEP/	Completed
Monitoring	GCSWCD	Valenti, Mayo, Hensonville, and Benjamin Cole.	GCSWCD	2015
Wiemtering	GESTIEB	In 2016, 11 stream restoration sites were monitored including,	GESTIEB	2013
		Ashland Well Head, Brandywine/Ashland Connector Reach,		
Monitoring of	NYCDEP/	Maier Farm, Conine, Holden, Shoemaker, Long Road, CR 6,	NYCDEP/	Completed
Restored Reaches	GCSWCD	SR 42, Lanesville and Apple Hill.	GCSWCD	2016
		In 2016, vegetation monitoring of stream restoration and		
		Catskill Stream Buffer Initiative projects was completed for the		
Vegetation	NYCDEP/	following sites: Benjamin, Donnelly, Wilkie, Enochty,	NYCDEP/	Completed
Monitoring	GCSWCD	Higgins, Dodson, Torsiello, Cervini, Hegner, and Slutzky.	GCSWCD	2016
		Historical alignments and a Stream Feature Inventory (SFI)		
Huntersfield Creek	NYCDEP/	have been completed for Huntersfield Creek in the Town of	NYCDEP/	Completed
SFI	GCSWCD	Prattsville.	GCSWCD	2016
		Historical alignments and a Stream Feature Inventory (SFI)		
	NYCDEP/	have been completed for the Little West Kill in the Town of	NYCDEP/	Completed
Little West Kill SFI	GCSWCD	Lexington.	GCSWCD	2016
Entire West Ithi SI I				
	NYCDEP/	Historical alignments and a Stream Feature Inventory (SFI)	NYCDEP/	Completed
Red Kill SFI	GCSWCD	have been completed for the Red Kill in the Town of Hunter.	GCSWCD	2016
		In 2017, seven stream restoration sites were monitored		
Monitoring of	NYCDEP/	including, Brandywine/Ashland Connector Reach, Big Hollow,	NYCDEP/	Completed
Restored Reaches	GCSWCD	Shoemaker, Long Road, Lanesville, Kozak, and Vista Ridge.	GCSWCD	2017
		In 2017, vegetation monitoring of stream restoration and		
		Catskill Stream Buffer Initiative projects was completed for the		
		following sites: Bilash, Cole Deming Road, Hensonville,		
V	NIX CDED/	Mayo, Posch, South Street, Windham Path, ACR/Brandywine,	NIXCDED/	0 1 1
Vegetation	NYCDEP/ GCSWCD	Ashland Wellhead, Big Hollow, Kozak, Lanesville, Shoemaker	NYCDEP/	Completed
Monitoring	GCSWCD	and Vista Ridge. Historical alignments, Japanese knotweed mapping and a	GCSWCD	2017
	NYCDEP/	Stream Feature Inventory (SFI) were completed for the Batavia Kill in the Towns of Windham, Ashland and Prattsville. The	NYCDEP/	Completed
Batavia Kill SFI	GCSWCD	post-processing and geodatabase management is complete.	GCSWCD	2017
Datavia Kili Si i	GCSWCD	Historical alignments, Japanese knotweed mapping and a	GCSWCD	2017
		Stream Feature Inventory (SFI) were completed for the West		
	NYCDEP/	Kill in the Town of Lexington. The post-processing and	NYCDEP/	Completed
West Kill SFI	GCSWCD	geodatabase management is complete.	GCSWCD	2018
., 650 11111 51 1	3331100	Historical alignments, Japanese knotweed mapping and a	3331100	2010
		Stream Feature Inventory (SFI) were completed for the		
	NYCDEP/	Gooseberry Creek in the Town of Hunter. The post-processing	NYCDEP/	Completed
Gooseberry SFI	GCSWCD	and a geodatabase management is complete.	GCSWCD	2018
		·		
		GCSWCD and DEP will get together to discuss available data,		
SMP Water Quality	NYCDEP	priority pollutants and the strategy for restoration project		Completed
Workshop	GCSWCD	identification.	NA	2018

		In 2018, 13 stream restoration sites were monitored including,		
Monitoring of Restored Reaches	NYCDEP/ GCSWCD	Ashland Well Head, Maier, Big Hollow, Conine, Sugar Maples, Holden, Kastanis, Shoemaker, CR 6, CR 42, Apple Hill, Schoharie Street and Kozak.	NYCDEP/ GCSWCD	Completed 2018
Vegetation Monitoring	NYCDEP/ GCSWCD	In 2018, vegetation monitoring of stream restoration and Catskill Stream Buffer Initiative projects was completed for the following sites: McWilliams, Grossman, Freedman, Pesciotta, Drake, Rikard, Simmons, Posch, Bilash, Deming Road, South Street, Windham Path Berm, Windham Path Tributary, Kastanis, Ashland Wells, Kozak Field, Kozak Barn, Shoemaker, Big Hollow, Holden, Conine and Apple Hill.	NYCDEP/ GCSWCD	Completed 2018
Monitoring of Restored Reaches	NYCDEP/ GCSWCD	In 2019, six stream restoration sites were monitored including, Brandywine/Ashland Connector Reach, Maier Farm, Big Hollow, Kastanis, Long Road and Kozak.	NYCDEP/ GCSWCD	Completed 2019
Vegetation Monitoring	NYCDEP/ GCSWCD	In 2019, vegetation monitoring of stream restoration and Catskill Stream Buffer Initiative projects was completed for the following sites: Ashland Wells, Brandywine/ACR, Big Hollow, Kastanis, Lanesville, Kozak, Shoemaker, Bilash, Bilash Phase 2, Deming Road, DEP/Cotrone, DEP/Riley, Drake, Freedman, Grossman, McWilliams, Pesciotta, Posch, Rikard, Simmons, South Street, Windham Path Berm, Windham Path Tributary.	NYCDEP/ GCSWCD	Completed 2019
East Kill SFI	NYCDEP/ GCSWCD	Historical alignments, Japanese knotweed mapping and a Stream Feature Inventory (SFI) were completed for the East Kill in the Town of Jewett.	NYCDEP/ GCSWCD	Completed 2019
Sawmill Creek	NYCDEP/ GCSWCD	Historical alignments, Japanese knotweed mapping and a Stream Feature Inventory (SFI) were completed for the Sawmill Creek in Hunter, NY.	NYCDEP/ GCSWCD	Completed 2019
Schedule for Monitoring of Restored Stream Reaches	NYCDEP, GCSWCD	Annual monitoring of restored stream reaches provides valuable information on the effectiveness of restoration practices in addition to fulfilling the permit requirements associated with these projects. The schedule for restoration project monitoring for the upcoming field season is determined in each year in January.	NYCDEP/ GCSWCD SMP Contract	Completed Annually 2020 - 2021
Schedule for Vegetation Monitoring	NYCDEP, GCSWCD	Annually, the GCSWCD and project partners monitor the native riparian vegetation that has been installed along streambanks. Annual vegetation monitoring provides valuable information on the effectiveness of restoration practices and CSBI project, in addition to fulfilling the permit requirements associated with these projects. The schedule for vegetation monitoring for the upcoming field season is determined each year in January.	NYCDEP/ GCSWCD SMP Contract	Completed Annually 2020-2021
Bank Erosion Guide	NYCDEP, GCSWCD	A Student Conservation Association member, collaborated with GCSWCD staff to develop a Bank Erosion Guide for use with the Stream Feature Inventory Data Dictionary. The document provides information about the types of erosion and causes of erosion, and serves as guidance during stream feature inventory assessments.	NYCDEP/ GCSWCD SMP Contract	Completed 2020
Monitoring of Restored Reaches	NYCDEP/ GCSWCD	In 2020, four stream restoration sites were monitored including, Kastanis, Shoemaker, Lanesville, and County Route 78.	NYCDEP/ GCSWCD	Completed 2020
Bear Kill SFI	NYCDEP/ GCSWCD	FEMA floodplain, historical alignments, Japanese knotweed, land cover mapping and a Stream Feature Inventory (SFI) were completed for the Bear Kill in the Towns of Stamford, Roxbury, and Gilboa, NY.	NYCDEP/ GCSWCD	Completed 2020

STREAM RESTOR	STREAM RESTORATION AND STABILIZATION					
Action Item	Partners	Description	Funding	Status		
		Windham- Batavia Kill: a NYS DOT Article 15 stream disturbance permit was flagged by DEC Region 4 for potential				
	NYCDEP,	inclusion of a natural channel design approach. The project, designed and implemented by GCSWCD, established a	NYCDEP/			
Holden Stream Restoration	GCSWCD NYSDOT	geomorphically appropriate channel and floodplain bench and included riparian plantings which restored floodplain function.	GCSWCD, NYSDOT	Completed 2007		
Conine Farm Stream Restoration	NYCDEP, GCSWCD	Town of Prattsville- Batavia Kill: GCSWCD/NYCDEP completed a full geomorphic based restoration of a +/- 1800 foot reach on the lower Batavia Kill. The project addressed severe slope instability, reduced sediment loading and protected private property.	NYCDEP/ GCSWCD	Completed 2008		
Lanesville Stream Restoration Project Repairs	NYCDEP, GCSWCD	Town of Hunter- Esopus Basin: repairs were made on the Lanesville Demonstration Stream Restoration Project. Most adjustments were associated with gullying on a high slope failure caused by poor drainage on the terrace above the slope, which had not been addressed as part of the restoration project. Other adjustments were made in rock vane elevations and additional bioengineering was added to mitigate gullying.	NYCDEP/ GCSWCD	Completed 2008		
Broadstreet Hollow Stream (BSH) Restoration Project Repairs	NYCDEP, GCSWCD	Repairs to a restoration project GCSWCD implemented in 2000. The April 2005 flood damaged two dewatering wells which then failed to relieve artesian conditions and a mud boil returned, causing chronic turbidity. GCSWCD modified the damaged rock structures and hired a well drilling subcontractor to attempt to rehabilitate the dewater wells. The subcontractor found the well heads had broken and couldn't be rehabilitated. After reviewing all options, a decision was made to abandon the wells and monitor the projects' stability.	NYCDEP/ GCSWCD	Completed 2008		
Faber Farm Stream Restoration	NYCDEP, GCSWCD	Town of Jewett- East Kill: excessive erosion, following 2005 and 2006 floods, caused damage to project grading and rock structures. Conservation Reserve Enhancement Program (CREP), seedling plantings never became established, limiting project success. This restoration included: removal or modification of damaged rock and cross vanes, treatment of the back channel area to reduce frequency of flows in the back channel, bank grading, construction of a bankfull bench, and vegetative stabilization to reduce erosion and establish a riparian buffer. 1,179 larger trees were planted, willow stakes and approximately 1,000 feet of willow fascines were installed, along with many shrubs, sedges, and herbaceous seed.	NYCDEP/ GCSWCD, ACOE	Completed 2008		
Ashland Connector Reach Schoharie Street Stabilization	NYCDEP, GCSWCD NYCDEP, GCSWCD	Town of Ashland- Batavia Kill: GCSWCD completed planting on the streambanks and floodplains at the lower end of the project reach. Also, compensatory wetland areas were planted with appropriate species. Limited site cleanup work on access/staging areas was completed, and the project was surveyed as part of routine project monitoring schedule. Village of Hunter: stabilization of approximately 120 feet of high stream bank to protect infrastructure and private property. Project includes stacked and pinned riprap and vegetated beds. The GCSWCD and NYCDEP also added additional riparian buffer plantings on the opposite bank. Additional plantings including balled and burlapped river birch trees, were added fall 2009.	NYCDEP/ GCSWCD NYCDEP/ GCSWCD	Completed 2008 Completed 2009		

		Town of Lexington: completed a full geomorphic restoration		
		of approximately 2,400 linear feet of stream on the West Kill		
West Kill		in Spruceton Valley. The site had significant bank failure and		
Restoration	NYCDEP,	clay exposures in bank and stream bed. Wetland delineation,	NYCDEP/	Completed
Project, Long Road	GCSWCD	archaeological investigation and final survey of site conducted.	GCSWCD	2009
j,g			CWC	
		Town of Prattsville: GCSWCD led the CWC Stream Program	Stream	
	NYCDEP,	streambank projection project. Engineering services were	Corridor	
Oakwood Pistol	GCSWCD,	contracted for this project; design plans and specifications	Protection	Completed
Club	CWC	have been submitted for permit, and construction completed.	Grant	2009
		Primarily a CWC project with GCSWCD assistance. The		
Windham Golf	NYCDEP,	project provided for the removal of failed sheet piling,	CWC,	
Course	GCSWCD,	armoring of the toe and sloping of the bank, and planting of	NYCDEP/	Completed
Streambank Project	CWC	approximately 155 feet of streambank.	GCSWCD	2009
		Town of Windham- Batavia Kill Tributary: removed mortared		
		stone walls that confined a tributary and restored the stream to		
		a natural shape and meander pattern. Floodplain grading was		
		performed and the site was seeded with wetland and riparian		
		seed mixes. GCSWCD hosted a student planting with three		
		schools to install 1,584 herbaceous plugs, 340 willow stakes,		
Sugar Maples		250 trees and shrubs, and 7 willow fascines. The project was	NYCDEP/	
Stream	NYCDEP,	designed to restore wetland functions and approximately 700	GCSWCD,	Completed
Restoration	GCSWCD	feet of stream that was historically channelized and confined.	ACOE	2010
		A bankfull bench of approximately 1,200 feet was constructed		
Wright Stream Bank		and 3,127 feet of the streambank were re-vegetated. A rock	NYCDEP/	
Stabilization/	NYCDEP,	installation was completed by the project contractor, while	GCSWCD,	
Riparian	GCSWCD,	plantings were installed by GCSWCD staff and SCA service	CWC,	Completed
Project	SCA	project hosted by GCSWCD.	ACOE	2010
Wright Stream Bank				
Stabilization/		The		
Riparian Project	NYCDEP,	The previously constructed project was modified and enhanced with additional vegetative treatments in 2011 and	NYCDEP/	Completed
Enhancement	GCSWCD	monitoring initiated in 2012.	GCSWCD	2011
Elitaticement	GCSWCD		GCSWCD	2011
		This project improved the immediate project area and the aggraded reach upstream, by reducing a backwater condition at		
		the Vista Ridge bridge. The project also enhanced the riparian		
Vista Ridge		buffer, reduced the risk of failure of Vista Ridge and Colgate	NYCDEP/	
Floodplain	NYCDEP,	Lake Roads, reduced erosion of silts and clays, and provides	GCSWCD,	Completed
Restoration	GCSWCD	for improvement of the habitat value of the reach.	ACOE	2011
restoration	GESTIEB	Phase 1 of the project was completed in 2011; continued	Heel	2011
		construction was postponed due to Hurricane Irene. Project		
		construction completed in 2012. The project included		
		streambank and channel excavation to achieve stable		
		geometry, installation of in-stream stabilization structures and		
		a variety of bioengineering techniques along 3,500 feet of		
Holden Stream	NYCDEP,	stream channel. Over 6,000 trees were planted along the	NYCDEP/	Completed
Restoration Project	GCSWCD	restored stream channel.	GCSWCD	2011-2013
		Windham- Batavia Kill: There were significant damages		
		sustained at the Windham Country Club. Topographic data		
		was collected to support cost, material and labor estimates for		
Windham Country		implementation of the repair work. GCSWCD provided		
Club	NYCDEP,	technical support to the project due to the extensive damage	NYCDEP/	Completed
Repairs	GCSWCD	that occurred along the stream corridor.	GCSWCD	2012

	Project components included the realignment and resizing of 3,500 feet of channel, the installation of 23 rock structures, and installation of extensive bioengineering treatments and		
	riparian plantings over the 11 acre site. These efforts will	NYCDEP/ GCSWCD,	
	reduce erosion and excessive sediment loading, restore	SMIP,	
NYCDEP,	floodplain function, and improve aquatic and terrestrial	ACOE,	Completed
GCSWCD		EWP	2012
	the Pushman Bridge on NYS 42. The project included stream		
	bank and channel excavation, and the installation of in-stream		
GCSWCD		NVCDED/	
			Completed
NRCS			2013
	Town of Prattsville: The purpose of this work was to repair a	-	
	project that was damaged during Irene in 2011. The repair		
	project measured approximately 2,200 linear feet in length,		
		FEMA	
NYCDEP.			Completed
GCSWCD	developing a 7.1 acre riparian zone.	GCSWCD	2013
	Town of Ashland- Batavia Kill: The purpose of the project		
	provided channel grade control, stream bank stabilization, and		
	habitat enhancement. Bioengineering, including live staking	FEMA	
NYCDEP,	and fascines, along with the establishment of a one acre	NYCDEP/	Completed
GCSWCD			2013
NVCDED			Completed
			Completed 2014
3051100			2011
NYCDEP,		NYCDEP/	Completed
GCSWCD	Irene in 2011.	GCSWCD	2014
	Town of Lexington- West Kill: The project addressed damages	FEMA	
NYCDEP,		NYCDEP/	Completed
GCSWCD			2014
NVCDED			Completed
NYCDEP,			Completed
GCSWCD	I Irene in 2011	L GCSW/CD	1 7014
GCSWCD	Irene in 2011. Town of Ashland- Batavia Kill: The project addressed	GCSWCD NYCDEP/	2014
GCSWCD NYCDEP,	Irene in 2011. Town of Ashland- Batavia Kill: The project addressed damages sustained to the Ashland Wells Head restoration site	GCSWCD NYCDEP/ GCSWCD,	Completed
	GCSWCD NYCDEP NRCS NYCDEP, GCSWCD	3,500 feet of channel, the installation of 23 rock structures, and installation of extensive bioengineering treatments and riparian plantings over the 11 acre site. These efforts will improve water quality, reduce risk to humans and property, reduce erosion and excessive sediment loading, restore floodplain function, and improve aquatic and terrestrial habitat. Town of Lexington: The project addressed a large slope failure along a 1,400 foot reach of the West Kill, just downstream of the Pushman Bridge on NYS 42. The project included stream bank and channel excavation, and the installation of in-stream stabilization structures to achieve stable geometry. Practices include rock riffles, random boulder clusters, log boulder revetment and dry rock riprap with willow stakes to establish an armored flood plain bench at the toe of the slope, upper portions of the slope were hydroseeded and staked, and an asbuilt survey and plans have been prepared. Town of Prattsville: The purpose of this work was to repair a project measured approximately 2,200 linear feet in length, with a disturbance area of 11 acres. Extensive earthwork required to restore original grades, and included excavation and placement of over 52K cubic yards of material. The project included the repair and reconstruction of 5 j-hook vane structures, two cross vanes, and a constructed riffle. Biotechnical measures taken included live staking and fascines, seeding native riparian and wetland seed mixes, and developing a 7.1 acre riparian zone. Town of Ashland- Batavia Kill: The purpose of the project was to repair a portion of a project constructed in 1999 that sustained damage during Irene in 2011. Damages included streambank erosion, structural damage to rock structures, channel migration and land loss, and excess sedimentation. Earthwork was completed to restore original grades. The reconstruction of two j-hooks and repair of one cross vane provided channel grade control, stream bank stabilization, and habitat enhancement. Bioengineering, including	3,500 feet of channel, the installation of 23 rock structures, and installation of extensive bioengineering treatments and riparian plantings over the 11 acre site. These efforts will improve water quality, reduce risk to humans and property, reduce erosion and excessive sediment loading, restore floodplain function, and improve aquatic and terrestrial habitat. Town of Lexington: The project addressed a large slope failure along a 1,400 foot reach of the West Kill, just downstream of the Pushman Bridge on NYS 42. The project included stream bank and channel excavation, and the installation of in-stream stabilization structures to achieve stable geometry. Practices include rock riffles, random boulder clusters, log boulder revertment and dry rock riprap with willow stakes to establish an armored flood plain bench at the toe of the slope, upper portions of the slope were hydroseceded and staked, and an asbuilt survey and plans have been prepared. Town of Prattsville: The purpose of this work was to repair a project massured approximately 2,200 linear feet in length, with a disturbance area of 11 acres. Extensive earthwork required to restore original grades, and included exeavation and placement of over 52K cubic yards of material. The project included the repair and reconstruction of 5 j-hook vane structures, two cross vanes, and a constructed riffle. Biotechnical measures taken included live staking and dascines, seeding native riparian and wetland seed mixes, and developing a 7.1 acre riparian zone. Town of Ashland- Batavia Kill: The purpose of the project was to repair a portion of a project constructed in 1999 that sustained damage during Irene in 2011. Damages included streambank erosion, structural damage to rock structures, channel migration and land loss, and excess sedimentation. Earthwork was completed to restore original grades. The reconstruction of two j-hooks and repair of one cross vane provided channel grade control, stream bank stabilization, and habitat enhancement. Bioengineering, includi

			FEMA,	
Charmalar Praiset	NYCDEP,	Damages sustained on the Shoemaker Stream Restoration	NYCDEP/	Completed
Shoemaker Project				-
Repairs	GCSWCD	project on the West Kill were repaired in 2014 and 2015.	GCSWCD	2015
	SCSWCD,	A full-channel restoration project was installed adjacent to the	C) (ID	
	GCSWCD,	Conesville Town Park in order to stabilize eroding	SMIP,	
Manor Kill Stream	NYCDEP,	streambanks and protect water quality by reducing fine	NYCDEP/	Completed
Restoration	Conesville	sediment sources along this reach of stream.	GCSWCD,	2015
		Located along the Schoharie Creek, this project involved		
		restoring 750 linear feet of erosion with clay exposures by		
Schoharie Creek		grading the bank and stabilizing the toe with rock and		
Stabilization and		bioengineering treatments. A 50-100 feet wide riparian buffer	SMIP,	
Riparian Restoration	GCSWCD,	was established by planting native tree and shrub species along	GCSWCD,	Completed
at Kozak	NYCDEP	1,500 feet of streambank.	NYCDEP	2016
at Rozak	TTCDLI	The GCSWCD, NYCDEP and project partners worked to	TTCDEI	2010
		maintain project sites throughout the Schoharie Watershed.		
		Maintenance activities included:		
		Lanesville – supplemental plantings of trees and shrubs within		
		the floodplain along the left streambank, and willow stake		
		height maintenance.		
		Apple Hill - installation of 500 additional willow stakes along		
		outside of meander bends through project length; supplemental		
		plantings of 1,765 trees and shrubs; fertilized planted material.		
		ACR Parking Area – spread soil along access road and		
		driveway entrance; seeded and mulched site with riparian mix	NYCDEP/	
		and triple rye.	GCSWCD	
	NYCDEP,	Shoemaker – developed a planting plan; seeded site with	Schoharie	
Operation and	GCSWCD,	riparian mix; fertilized the site.	SMP	Completed
Maintenance	Landowners	Griffin Road – fertilized planted trees and shrubs.	Contract	2016
Wallichance	Landowners	Origin Roud – terrinzed planted trees and silidos.	GCSWCD/	2010
			NYCDEP	
			Schoharie	
			SMP	
West Kill		Constructed to mitigate turbidity and excess sediments from	Contract/	
Restoration at	GCSWCD,	clay-rich sources, reduce flood hazard erosion risk and	SEMO,	Completed
Shoemaker	NYCDEP	improve ecological integrity.	FEMA	2016
		A full channel restoration project of approximately 4,000 feet		
		of streambank along the Batavia Kill that experienced		
		significant rates of erosion and lateral migration. Full	SMIP,	
		restoration involved natural channel design to realign the	GCSWCD/	
Batavia Kill		channel and stabilize the bed and bank using a combination of	NYCDEP	
Restoration at	GCSWCD,	rock structures and bioengineering. The riparian buffer was	SMP	Completed
Kastanis	NYCDEP	enhanced with native seed, shrubs and trees.	Contract	2017
Itabuiiib	111000	The GCSWCD, NYCDEP and project partners worked to	Contract	2017
		maintain project sites throughout the Schoharie Watershed.		
		Maintenance activities included:		
		South Street –installation of willow stakes and supplemental		
		plantings of trees and shrubs on the bank.		
		Cranberry Road Culvert -channel repair upstream of the		
		culvert to correct the split channel that had started to establish.		
		Holden – revegetation of streambanks with poor vegetative		
		cover. Soils were loosened and seeded, fertilizer was applied	NYCDEP/	
		and erosion control blankets were installed.	GCSWCD	
	NYCDEP,	State Route 42 – large wood that was blocking stream flow	Schoharie	
Operation and	GCSWCD,	and threatening a downstream bridge were cut and left in place	SMP	Completed
Maintenance	Landowners	to minimize potential impacts of fallen trees.	Contract	2019
141aiiiiciiaiice	Lando whers	to minimize potential impacts of fation tices.	Commact	2017

		Kastanis – loosened up compacted soils removed rock and seeded and mulched the farm fields to address impacts of project construction.		
East Kill Streambank Stabilization near	GCSWCD	Project included restoration of approximately 650 feet of the East Kill that had experienced continued streambank failure and mass wasting. An earthen berm had also caused the stream to be disconnected from the floodplain. The berm was removed and minor modifications were made to the channel alignment along this reach. Restoration also involved development of a stable bankfull bench and bank toe. The project included installation of live stone revetment, and rootwads for toe protection and bioengineering and installation of native vegetation to provide streambank stability and a healthy		Completed
CR 78 Bridge	NYCDEP	riparian buffer.	SMIP	2019
Batavia Kill Restoration at Red Falls Project 1,	GCSWCD,	Phase I of the Batavia Kill Restoration at Red Falls Project 1 is complete. Phase I included completion of the gravel access road and rock lined dewatering channel. This is part of a full-channel restoration project located on the Batavia Kill at the	SMIP, GCSWCD/ NYCDEP SMP	Completed
Phase I	NYCDEP	border of Ashland and Prattsville.	Contract	2020
CR78 Culvert on Tributary to East Kill Bed Stabilization	GCSWCD, NYCDEP, GCHD	This stream bed stabilization project is located upstream of an existing culvert crossing on an unnamed tributary to the East Kill. The GCHD, in collaboration with GCSWCD, installed three constructed riffles along 200 feet of stream channel.	SMIP	Completed 2020
		The GCSWCD, NYCDEP and project partners worked to maintain project sites throughout the Schoharie Watershed. Maintenance activities included: County Route 78 Stream Restoration- Fertilized planting area and maintained tree tubes. Windham Path- Installed new trees and shrubs on eroded bank, blocked up large wood that was blocking stream channel adjacent to planting so it would not impact downstream bridges. County Route 78 Culvert- Spread grass seed,	NYCDEP/ GCSWCD	
	NYCDEP,	fertilizer, and planted willows and trees on banks after grading	Schoharie	
Operation and	GCSWCD,	was completed. Ashland Connector Reach Project – parking	SMP	Completed
Maintenance	Landowners	area maintenance.	Contract	2020

STREAM STEWARDSHIP AND STREAM ACCESS EDUCATION AND OUTREACH				
Action Item	Partners	Description	Funding	Status
What is turbidity				
and why is it	GCSWCD/	Workshop held that provided an overview of what turbidity	NYCDEP/	Completed
important?	NYCDEP	is, and the impact it has on the Schoharie Basin.	GCSWCD	2007
		Watershed tours provide an opportunity for local officials		
		and interested basin residents to observe best management		
		practices used in stream stewardship and management		
		throughout the watershed. The tours foster and improved		Completed
	GCSWCD/	understanding of stream protection efforts and	NYCDEP/	Annually
Watershed Tours	NYCDEP	implementation projects.	GCSWCD	2007-2010
		Annual event promoting the wise use of our natural		
		resources as they relate to water quality and ecosystem	NYCDEP/	
		functions. Interactive exhibits, educational displays, and	GCSWCD,	Completed
Batavia Kill Stream	GCSWCD/	activities promoting understanding of the environment	Ashland,	Annually
Celebration	NYCDEP	engage those of all ages.	CWC	2007-2011

		Education, built into Summits and Tours, target elected and		
		appointed officials, planning boards, code enforcement		Completed
Educational	GCSWCD/	officers, highway department staff, and streamside property	NYCDEP/	Annually
Workshops	NYCDEP	owners.	GCSWCD	2007-2020
Watershed Summits	GCSWCD/	Watershed conferences held to provide local decision makers and officials educational classes and networking opportunities around watershed protection. All eleven communities within the basin are represented by the vast and diverse number of attendees. The 2020 Watershed Summit	NYCDEP/	Completed Annually
Watershed Summits	NYCDEP	was canceled due to the COVID pandemic.	GCSWCD	2007-2021
Websites	GCSWCD/ NYCDEP	Although websites require continuous updating, the www.catskillstreams.org and www.gcswcd.com are established sites that are used to promote project updates and share information on watershed protection issues.	NYCDEP/ GCSWCD	Completed 2007, 2010, 2014, 2020
Program Office	GCSWCD NYCDEP	GCSWCD and WAP secured a Mountaintop project office in Tannersville which is used by various local, regional, and state committees working on watershed protection.	NYCDEP/ GCSWCD	Completed 2008
ESC Workshop	GCSWCD NYCDEP	GCSWCD sponsored three Construction Erosion and Sediment Control Training Courses that were attended by approximately 230 people from the Schoharie basin. Participants included watershed developers, planners, code enforcement officers, regulators and contractors. This course focused on the review of new state construction permit, the requirements of stormwater pollution prevention plans, and the proper installation of erosion and sediment control practices. This continued with workshops in 2015 and 2017. Courses are offered approximately every three years.	NYCDEP/ GCSWCD	Completed 2008-2017
Manor Kill Environmental Study Team,Stream Management Implementation	Schoharie River Center	Experimental, hands on environmental education and stream monitoring program for youth ages of 13 - 18. Youth members learn specific skills, develop and master abilities in environmental assessments, field research projects and community education activities. Members also participated in a riparian planting along Manor Kill in 2011.	SMIP	Completed Annually 2009-2011
Schoharie Watershed Week	GCSWCD/ NYCDEP/ Watershed Municipalities	A number of events scheduled to educate and engage local community members in watershed programs and stewardship activities. Intended to be an annual event, but replaced with Schoharie Watershed Month in 2011.	SMIP	Completed 2010
Rain Barrel Workshop Mountain Top	CCE, GCSWCD, NYCDEP	Workshop took place during Schoharie Watershed Week in May 2010 and Schoharie Watershed Months in 2011 & 2012. Watershed landowners took part in building their own rain barrels.	SMIP	Completed 2010-2012
Arboretum Wet Meadow- Interpretive Kiosk, Brochures, & Historic Pump House Repair	Mountain Top Arboretum	A kiosk was installed and brochures were developed to describe the wet meadow including the historical background of the historic pump house, an explanation of the site's hydrology, and other information about wetland plants and wildlife.	SMIP	Completed 2010
SWAC and Schoharie Watershed Week Logos	GCSWCD/ NYCDEP/ SWAC	Logos were developed for the Schoharie Advisory Committee and Watershed Week.	SMIP	Completed 2010

Schoharie Watershed Months	GCSWCD, NYCDEP, SWAC	Schoharie Watershed Month engages watershed communities and organizations in hands-on activities to learn about the watershed and its resources. Various activities, workshops and family events are organized each May by host communities and organizations that promote awareness and protection of streams and their watersheds.	SMIP	Completed Annually 2011-2019
Riparian Walk	GCSWCD, NYCDEP,	As part of the Hunter-Tannersville Elementary Trout Release Program, a guided riparian buffer walk was held at Dolan's Lake.	GCSWCD, NYCDEP	Completed annually 2011-2018
Identify Existing Resources	GCSWCD, NYCDEP	GCSWCD identified and cataloged existing resources that are currently available. The website was revamped in 2011, to provide web-based documentation of existing resources and links to additional resources.	NYCDEP/ GCSWCD	Completed 2011
Mountain Top Arboretum Outdoor Classroom Design	GCSWCD, NYCDEP, Mountain Top Arboretum	An outdoor classroom was designed and constructed at the arboretum. It accommodates approximately 45 people for year-round outdoor programming on a range of ecological and natural history topics relating to the watershed.	SMIP	Completed 2011
Water Quality at Home Workshop	GCSWCD, NYCDEP, CCE	Two action-based educational workshops held during Schoharie Watershed Month to raise awareness about stewardship of water quality. The Holistic Pond Management Workshop provided tools and strategies to address pond problems without the use of chemical treatments. The rain barrel workshop discussed the impacts of stormwater runoff on water quality and taught participants how to build a rain barrel.	SMIP	Completed 2011
Manor Kill Information Kiosk	GCSWCD, NYCDEP, Conesville, SCSWCD	A Kiosk for Conesville was provided by GCSWCD, and a general Schoharie Watershed/Schoharie SWCD educational panel was produced in conjunction with GCSWCD's kiosk series.	NYCDEP/ GCSWCD, SCSWCD	Completed 2011
Septic Workshop for Homeowners	CWC, GCSWCD, NYCDEP	As part of Schoharie Watershed Month, the Catskill Watershed Corporation provided an educational septic workshop for watershed homeowners held at the Windham Waste Water Treatment Plant. A tour of the state of the art treatment plant followed the workshop.	SMIP, CWC	Completed 2013
Earth, Wind & Water: The Seasons Student/Amateur Watershed Art Exhibit	SWM Committee, GCSWCD, NYCDEP	The artwork of local students and amateur artists was on display at the Kaaterskill Fine Arts Gallery in Hunter, NY. The artwork theme was Earth, Wind & Water: The Seasons. An opening reception was held and the exhibit was on display for the month of May.	SMIP	Completed 2013
Windham Path Stream Clean Up	Windham, GCSWCD, NYCDEP, WARF	The Windham Area Recreation Foundation (WARF), in coordination with NYCDEP and GCSWCD, held a Grand Opening of the Windham Path in May 2014. Volunteers who attended also participated in a stream clean-up along the property.	SMIP, WARF	Completed 2013
Greene Infrastructure at Work & Home	CGCCE, GCSWCD	As part of Schoharie Watershed Month, The Columbia- Greene Cornell Cooperative Extension and GCSWCD presented a workshop about green infrastructure. Topics included stormwater impacts, small scale treatment practices and a tour of the Mountain Top Library, and green infrastructure project supported by SMIP.	SMIP, GCSWCD, WAP	Completed 2013
Riparian Walk	Windham Path	As part of Schoharie Watershed Month and the grand opening of the Windham Path, a guided riparian buffer walk and discussion was held at the Windham Path.	GCSWCD, NYCDEP	Completed 2013

	Catskill	The Catskill Center for Conservation and Development		
	Center, SWM	provided a workshop about invasive species. This workshop		
Invasive Species	Committee,	was for small and large landowners in the watershed and	SMIP,	
Workshop for	GCSWCD,	was held in Prattsville, NY during Schoharie Watershed	Catskill	Completed
Landowners	NYCDEP	Month.	Center	2014
	SWM	The Arm-of-the-Sea Theater, presented <i>The City that Drinks</i>		
	Committee,	the Mountain Sky, an educational puppet show for the entire		
The City that Drinks	GCSWCD,	family, held in Prattsville, NY as part of Schoharie		Completed
the Mountain Sky	NYCDEP	Watershed Month.	SMIP	2014
		Liz LoGiudice of Cornell Cooperative Extension provided		
	CCE, SWM	the Rain Garden Workshop and site visit as part of		
	Committee,	Schoharie Watershed Month. The workshop was provided		
Rain Garden	GCSWCD,	in Tannersville, NY and taught landowners about		Completed
Workshop	NYCDEP	stormwater landscaping that will beautify your property.	SMIP	2014
	GCSWCD,	GCSWCD partnered with NYCDEP to provide a tour of the	SMIP,	Completed
Gilboa Dam Tour	NYCDEP	Gilboa Dam as part of Schoharie Watershed Month.	NYCDEP	2014
	Mrs. Puddle			
	Duck's,			
	GCSWCD,	As part of Schoharie Watershed Month, the Catskill Center		
	Catskill	for Conservation & Development and the Hunter Foundation	SMIP,	
	Center,	supported a water workshop targeting preschoolers and their	Catskill	
	Hunter	families. To workshop provided an opportunity for	Center,	
	Foundation,	participants to discover what is in our stream and why it is	Hunter	Completed
Water Workshop	NYCDEP	important to protect them.	Foundation	2014
•		•		
		As part of Schoharie Watershed Month, Windham Day on		
		the Batavia Kill was held at the Windham Path property.		
	SWM	Attendees had the opportunity to participate in the COWF		
	Committee,	Pat Meehan Memorial Scholarship Walk, plant identification		
Windham Day of	GCSWCD,	walks, and learned about local organizations that promote	SMIP,	Completed
the Batavia Kill	NYCDEP	outdoor and community resources.	COWF	2014
		During Schoharie Watershed Month, the Gilboa Ancient		
	SWM	Forest lecture was presented by Kristen Wyckoff of the		
	Committee,	Gilboa Historical Society (GHS). Participants learned about		
The Gilboa Ancient	GCSWCD,	the oldest known forest on earth and saw fossilized tree		Completed
Forest	NYCDEP	trunks.	SMIP	2014
		As part of Schoharie Watershed Month, Gerry Stoner and		
	SWM	Diane Galusha, area historians, presented a Guided Bus Tour		
Guided Bus Tour of	Committee,	of the Schoharie Reservoir. Participants took a scenic tour		
the Schoharie	GCSWCD,	around the reservoir and explored this history of the former		Completed
Reservoir	NYCDEP	valley and the creation of the Gilboa Dam.	SMIP	2014
	Windham	As part of Lark in the Park, a guided riparian buffer walk	GCSWCD,	Completed
Riparian Walk	Path	and discussion was held at the Windham Path.	NYCDEP	2014
Mparian waik	SWM	During Schoharie Watershed Month, a trout release and	NICDEF	2017
	Committee,	macroinvertebrate study were held at Dolan's Park in		
	GCSWCD,	Hunter, NY. Participants also have the opportunity to learn		Completed
Trout Release	NYCDEP		SMIP	Completed 2015
110ut Kelease	NICDEF	about fly casting and tying.	SIVIIF	2013
	TU, SWM	As part of Schoharie Watershed Month, Trout Unlimited		
	Committee,	supported the workshop, Changing Trout Habitat in the		
	GCSWCD,	Upper Schoharie Creek. Walt Keller, a fisheries biologist,		
Changing Trout	NYCDEP,	and a panel of speakers explored the factors that influence		
Habitat in the Upper	Platte Clove	stream health and fish populations. The workshop was held		Completed
Schoharie Creek	Community	at the Platte Clove Neighborhood Center in Hunter, NY.	SMIP/CSBI	2015

	1	T	т —	
	SWM			
	Committee,			
	GCSWCD,			
C '1 1D 111	NYCDEP,			
Guided Paddle on the Schoharie	Catskill Outback	Catskill Outback Adventures led a guided paddle on the		C1-4-4
		Schoharie Reservoir beginning at Snyder's Cove. This trip	CMID	Completed 2015
Reservoir	Adventures	was part of Schoharie Watershed Month.	SMIP	2013
Aquatia	SWM	As part of Schoharie Watershed Month, an Aquatic Invertebrates workshop was held in the Village of Hunter,		
Aquatic Invertebrates	Committee,	NY. This after school program taught students about		
Workshop for	GCSWCD,	dragonflies, damselflies, and other aquatic insects and		Completed
Children	NYCDEP	animals that play important roles in the watershed.	SMIP	2015
Cilidicii	SWM	ammais that play important foles in the watershed.	Sivili	2013
Interpretive	Committee,			
Watershed Hike,	GCSWCD,	Peter Manning led a 7-mile interpretive watershed hike of		Completed
Bearpen Mountain	NYCDEP	Bearpen Mountain as part of Schoharie Watershed Month.	SMIP	2015
Bearpen Weatham	TYTOBEI	The Schoharie Basin and It's Ice Age History was presented	Sivili	2013
1		by Bob and Johanna Titus. They told the story of how		
	SWM	glaciers shaped the Schoharie Basin and created its most		
The Schoharie	Committee,	scenic views. This lecture was held at the Mountaintop		
Basin and It's Ice	GCSWCD,	Historical Society in Haines Falls, NY as part of Schoharie		Completed
Age History	NYCDEP	Watershed Month.	SMIP	2015
,		A series of four educational workshops for children in the		
Town of Lexington		Town of Lexington. The proposed workshops will teach		
Watershed		local children, using hands-on experiences, about the insects		
Awareness	Town of	and animals that play important roles in the watershed, and		Completed
Workshops	Lexington	the role that streams play in the environment.	SMIP	2015
		Students from schools around the mountaintop displayed		
		their films, sculptures, photographs, and other artwork for		
		the "Now Streaming: Life in the Schoharie" art show.		
		Exhibit ran through the month of May. This exhibit was on		
Opening Student/	NYCDEP/	display at the Doctorow Center for the Arts during		Completed
Amateur Art Exhibit	GCSWCD	Schoharie Watershed Month.	SMIP	2016
		"A true story about life, death, science, and streams." This		
		documentary follows the life and work of Japanese		
		ecologist, Dr. Shigeru Nakano. The documentary was		
"RiverWebs" Film	NYCDEP/	shown at the Mountain Top Library as part of Schoharie		Completed
Showing	GCSWCD	Watershed Month.	SMIP	2016
		The NYC Department of Environmental Protection		
		(NYCDEP) and the Greene County Soil & Water		
		Conservation District (GCSWCD) organized a tree planting		
Divorkeen en C		on Windham's Batavia Kill (at South Street) on Saturday,		
Riverkeeper Sweep: Windham Tree	NYCDEP/	May 7, 2016 for the 5 th Annual Riverkeeper Sweep, a day of service for the Hudson River. This event was part of		Completed
Planting	GCSWCD	Schoharie Watershed Month.	SMIP	2016
1 failting	GCSWCD	Gerry Stoner, of the Gilboa Historical Society, led a guided	SIVIII	2010
		bus tour of the Schoharie Reservoir as part of Schoharie		
		Watershed Month. Participants learned about the history of		
		the reservoir, the building of the Gilboa Dam, the Gilboa		
Schoharie Reservoir	NYCDEP/	fossils, and more! All participants received a 50-page tour		Completed
Bus Tour	GCSWCD	booklet as a keepsake.	SMIP	2016
200 1001	30000	A series of three lectures was provided during Schoharie	21,111	2010
	NYCDEP/	Watershed Month at the Platte Clove Neighborhood Center.		
	GCSWCD/	"Our Rivers on Drugs". AJ Reisinger, a freshwater		
Local Stewardship	NYSDEC/	ecologist at the Cary Institute of Ecosystem Studies,		Completed
Lectures	NYTU/ CIES	discussed how pharmaceuticals and personal care products	SMIP	2016
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i

		are polluting rivers and streams – and the consequences for		
		aquatic life and drinking water supplies. "Guide to Creating		
		a Natural Resources Inventory (NRI)" Ingrid Haeckel, from		
		NYS Department of Environmental Conservation, spoke		
		about the benefits of natural areas and the importance of		
		community consideration of local land and water resources		
		to better guide land-use decisions. "Microbeads Affecting		
		Lake, Tributaries, and Your" Ron Urban, from NY Trout		
		Unlimited, spoke about the potential environmental damage,		
		and health consequences for fish and aquatic organisms due		
		to microbeads found in waterways.		
		Following the Local Stewardship Lectures held at the Platte		
		Clove Neighborhood Center, a Kids Program was held		
Kids Program,		during Schoharie Watershed Month. Kids joined storyteller		
following		Jill Olesker for story time, participated in a citizen science		
Stewardship	NYCDEP/	paint and sketch with local artists, and got creative with fairy		Completed
Lectures	GCSWCD	house fun.	SMIP	2016
		Mike Kudish, Catskills forest historian and author, discussed		
		the history of hemlocks and their significance to the		
		Schoharie Watershed. Dan Snider, Field Projects Manager		
		at CRISP, discussed the hemlock woolly adelgid (HWA), a		
		tiny forest pest that is currently threatening hemlock		
		populations. Participants learned how to identify HWA and		
		what to do if they find HWA on their property. All		
TT 1 1 1 1	NIVODED/	participants received a complementary hemlock tree		G 1 4 1
Hemlocks through	NYCDEP/	seedling to take home for planting. This program was	C) (ID	Completed
History	GCSWCD	presented during Schoharie Watershed Month.	SMIP	2016
		The performance of a story that follows Malakai, the River		
		messenger and water carrier who travels between Mountain		
Arm-of-the Sea's		Peaks and the Deep Blue Sea. Along his journeys Malakai		
"Rejuvenary River	NYCDEP/	encounter animals that offer insights into their particular role		
Circus" Theater	GCSWCD/	in a watershed's ecosystem services. This performance was	SMIP/	Completed
Performance	CWC	as part of Schoharie Watershed Month.	CWC	2016
	Windham	As part of Schoharie Watershed Month, a guided riparian	GCSWCD,	Completed
Riparian Walk	Path	buffer walk and discussion was held at the Windham Path.	NYCDEP	2016
Kiparian waik			IVICDLI	2010
	NYCDEP/	GCSWCD teamed up with Trout Unlimited and NYSDEC		
Schoharie Creek	CSBI/	for a volunteer tree planting in a riparian buffer zone along		
Arbor Day	GCSWCD/	the Schoharie Creek in Jewett. This planting event was held		
Volunteer Tree	NYTU/	on Saturday, April 29th, 2017 in honor of Arbor Day. This	G) (II)	Completed
Planting	NYSDEC	event was part of Schoharie Watershed Month.	SMIP	2017
		Students from schools around the mountaintop displayed		
		their films, sculptures, photographs, and other artwork for		
		the "Now Streaming: Life in the Schoharie" art show.		
		Exhibit ran through the month of May. This exhibit was on		
Opening Student/	NYCDEP/	display at the Mountain Top Library during Schoharie		Completed
Amateur Art Exhibit	GCSWCD	Watershed Month.	SMIP	2017
		GCSWCD staff teamed up with the Platte Clove Community		
		and a few volunteers from the general public to hold a		
		volunteer potting-up event at the Plant Materials Center in		
		Hensonville. The trees and shrubs that were potted up will		
		be used in future streamside plantings with GCSWCD. The		
		two volunteer potting-up events took place on Tuesday, May		
Volunteer Potting-	NYCDEP/	9th, and Wednesday, May 17th, during Schoharie Watershed		Completed
Up Events	GCSWCD	Month.	SMIP	2017
Op Lyents	I GCD W CD	MOHAI.	SIVIII	2011

		D' 0111111111111111111111111111111111111		1
		Diane Galusha's illustrated talk "Schoharie Passage: From		
		Mountain to Manhattan." The Liquid Assets author traced		
		the Schoharie Creek's journey from the Catskills High Peaks		
		to the faucets of New York City. This talk described the		
		history of the NYC drinking water supply, with a focus on		
"Schoharie Passage:		the construction of the Schoharie Reservoir. Attendees had		
From Mountain to	NYCDEP/	an opportunity for a book signing with Diane Galusha. This		Completed
Manhattan"	GCSWCD	program was presented during Schoharie Watershed Month.	SMIP	2017
		Invasive Species Day was held at the Mountain Top		
		Arboretum. Attendees learned about common local invasive		
		species and forest pests with Dan Snider from the Catskill		
		Regional Invasive Species Partnership (CRISP). Attendees		
		helped to remove lesser celandine and replant with native		
Invasive Species	NYCDEP/	vegetation. The program was presented during Schoharie		Completed
_	GCSWCD	Watershed Month.	SMIP	2017
Day	GCSWCD		SMIP	2017
		The Meadow Project's documentary "Hometown Habitat"		
		was shown at the Orpheum Film & Performing Arts Center		
		in Tannersville. The movie highlighted the importance of		
		planting native plant species, selecting plants that support		
		habitat for wildlife and attract pollinators, and promoting the		
		natural beauty of our local ecosystems. Following the film,		
		there was a 30-minute Q&A panel discussion with local		
		garden experts from the Mountain Top Arboretum, Cornell		
		Cooperative Extension of Columbia-Greene Counties'		
"Hometown		Master Gardener Volunteer program, and GCSWCD staff.		
Habitat" Film		Registered participants received a free small native tree or		
Showing and Q&A	NYCDEP/	shrub to take home for planting courtesy of GCSWCD. This		Completed
Panel Discussion	GCSWCD	program was presented during Schoharie Watershed Month.	SMIP	2017
"Spring Fling"	GESTIED	GCSWCD helped with trail work for the newly expanded	SIVIII	2017
Opening of the		KRT section. GCSWCD set up a table display and materials		
Expanded	NIVGDED/	inside the Mountain Top Historical Society building as part		0 1 1
Kaaterskill Rail	NYCDEP/	of the opening event. This program was presented during	C) (II)	Completed
Trail	GCSWCD	Schoharie Watershed Month.	SMIP	2017
		GCSWCD staff offered "What's a Watershed?" programs at		
		the Mountain Top Library. These programs involved the use		
		of the Augmented Reality Sandbox, the EnviroScape model,		
		and a pollution craft. Attendees learned how to define a		
"What's a		watershed and how to identify common sources of		
Watershed"	NYCDEP/	watershed pollution. These programs were offered to girl	NYCDEP/	Completed
Programs	GCSWCD	scouts (July 12 th) and the general public (July 14 th).	GCSWCD	2017
	Windham	As part of Lark in the Park, a guided riparian buffer walk	GCSWCD,	Completed
Riparian Walk	Path	and discussion was held at the Windham Path.	NYCDEP	2017
Mparian waik	1 au		NICDEF	201/
		The Enviroscape Watershed/Nonpoint Source Model		
		provides a hands-on demonstration of how watersheds work,		
	NIVODED!	with a focus on water pollution and runoff. Using the model		
	NYCDEP/	throughout the Schoharie Watershed, we provide interactive		
	GCSWCD/	lessons about different types of pollution (point and		
	E&O	nonpoint sources) and how storm water carries these		Completed
Enviroscape	Subcommittee	pollutants to nearby water bodies.	SMIP	2017
		GCSWCD and the Mountain Top Library teamed up to		
		select children's books to be read at the Mountain Top		
	NYCDEP/	Library's regularly scheduled story time on Saturday		
Eco-Friendly Story	GCSWCD/	mornings throughout Schoharie Watershed Month (May		
Time & Craft Hour	SWM	2018). The stories were partnered with related crafts for		
at the Mountain Top	Planning	young children. This program was offered as part of		Completed
Library	Committee	Schoharie Watershed Month 2018.	SMIP	2018
10101 y	Committee	Senonaire watershed would 2010.	D14111	2010

	NYCDEP/	The Mountain Top Arboretum hosted an Invasive Species		
	GCSWCD/	Day. Dan Snider, of the Catskill Regional Invasive Species		
	SWM	Partnership (CRISP), lectured and led a walk to ID invasive		
	Planning	plant species. Attendees put new knowledge to practice with		
Invasive Species	Committee/	a group weed pull focusing on specific removal methods of		
Day at the Mountain	Mountain Top	the invasive lesser celandine ground cover. This program		Completed
Top Arboretum	Arboretum	was offered as part of Schoharie Watershed Month 2018.	SMIP	2018
		There was an outdoor educational walk on the Hunter		
		Branch railroad bed presented by Joan Kutcher, Pete		
	NYCDEP/	Senterman and Michelle Yost. Participants had the		
	GCSWCD/	opportunity to learn about plant identification, early railroad		
	SWM	history and outdoor recreation opportunities in the		
	Planning	watershed. This program was offered as part of Schoharie		Completed
Trails Event	Committee	Watershed Month 2018.	SMIP	2018
	NYCDEP/			
	GCSWCD/	Mike Kudish, forest historian, will led a short walk into the		
	SWM	Mountain Top Arboretum's Spruce Glen where participants		
Bog Tour with Mike	Planning	learned about bog ecology and history. Mike took a peat		
Kudish at the	Committee/	core sample to help determine the bog's age and evolution.		
Mountain Top	Mountain Top	This program was offered as part of Schoharie Watershed		Completed
Arboretum	Arboretum	Month 2018.	SMIP	2018
		A native species planting project at the Mountain Top		
		Arboretum. Dan Snider spoke on invasive shrubs, and		
	NYCDEP/	provided participants with the opportunity to learn about		
	GCSWCD/	native shrub alternatives. GCSWCD assisted with the		
	SWM	removal of non-native honeysuckle and vetch and prepared		
	Planning	the planting site prior to the volunteer event. Participants		
Mountain Top	Committee/	helped replant the area with beautiful native shrubs. This		
Arboretum Native	Mountain Top	program was offered as part of Schoharie Watershed Month		Completed
Shrub Replanting	Arboretum	2018.	SMIP	2018
Environmental		This program presented screenings of educational		
Awareness Movie	NYCDEP/	documentaries on environmental topics throughout 2018.		
Series at the	GCSWCD/	The Mountain Top Library held the screenings in an effort to		
Mountain Top	E & O	inform the mountain top community about important		Completed
Library	Subcommittee	environmental issues with a focus on water resources.	SMIP	2018
		The Ward's Stormwater Floodplain Simulation System		
		provides a hands-on demonstration of stormwater and the		
		critical role of floodplains. The model can do simulations of		
	NYCDEP/	different types of surfaces (wetland, parking lot, and		
Stormwater	GCSWCD/	retention pond) and it shows how retention ponds and		
Floodplain	E & O	wetlands are important for flood management. Purchase of		Completed
Simulation System	Subcommittee	the model with included curriculum was completed in 2018.	SMIP	2018
		Cornell Cooperative Extension adapted Post Flood Stream		
Bowery Creek		Intervention, Emergency Stream Intervention, and CCE's		
Training Facility		Streams 101 curricula to create standardized field		
Curriculum		components to be available for delivery at the Bowery Creek		
Development for	CCE,	Training Facility. This curricula was developed to help		
Onsite Field	NYCDEP/	increase awareness of stream, floodplain, and riparian buffer		Completed
Trainings	GCSWCD/	functions through hands-on field training.	SMIP	2019
	NYCDEP/			
	GCSWCD/	Local photographer Francis X. Driscoll led a guided		
	SWM	photography hike in the Spruceton Valley area. This		
Spring in Spruceton	Planning	program was offered during Schoharie Watershed Month		Completed
Photography Walk	Committee	2019.	SMIP	2019
·				

	1			
Arresting the Floodwaters: Hold	NYCDEP/ GCSWCD/ SWM	The Mountain Top Library in Tannersville, hosted author and landscape designer Carolyn Summers for a slide		Completed
your Ground with Native Plants	Planning Committee	presentation and guided walk. This program was offered during Schoharie Watershed Month 2019.	SMIP	Completed 2019
Planting Hope: The Work of the CCC in	NYCDEP/ GCSWCD/ SWM	Author Diane Galusha presented an illustrated talk of the New Deal's Civilian Conservation Corps at the Windham Civic Center. This program was offered during Schoharie	Sivili	Completed
the Catskills	Planning Committee	Watershed Month 2019.	SMIP	2019
the Catskills	Committee	Schoharie Watershed Month co-sponsored this event put on	SMIP	2019
Becoming a Citizen Scientist with iNaturalist	NYCDEP/ GCSWCD/ SWM Planning Committee	by the Mountain Top Arboretum. Participants learned how to use the iNaturalist mobile app with Mountain Top Arboretum staff. CRISP staff taught about the invasive plant species found near the Arboretum. This program was offered during Schoharie Watershed Month 2019.	SMIP	Completed 2019
Glacial Geology of the Schoharie Creek Valley	NYCDEP/ GCSWCD/ SWM Planning Committee	Robert and Johanna Titus offered a two-part event. The first part of the event was a one-hour long lecture at the Zadock Pratt Museum. The second part of the event was an optional two-hour hike at nearby Pratt Rock. This program was offered during Schoharie Watershed Month 2019.	SMIP	Completed 2019
Hemlock Woolly Adelgid Primer: What's Happening with Hemlocks in New York? Mountain Top	NYCDEP/ GCSWCD/ SWM Planning Committee NYCDEP/	Schoharie Watershed Month co-sponsored this event put on by the Mountain Top Arboretum. The New York State Hemlock Initiative shared the importance of conserving hemlocks and the significance of the invasive hemlock woolly adelgid (HWA). The event included a walk to the Arboretum's hemlock stand to look for HWA.	SMIP	Completed 2019
Arboretum Emerald Bog Boardwalk and Education	GCSWCD/ Mountain Top Arboretum	This project included installation of an interpretative panel and a 45' boardwalk over a bog known as the Emerald Bog at the Mountain Top Arboretum.	SMIP	Completed 2019
Annual Education and Outreach Plan	NYCDEP, GCSWCD, SWAC	The GCSWCD continues to work with NYCDEP and others to develop and implement a comprehensive education and outreach strategy with goals submitted annually in January.	GCSWCD/ NYCDEP SMP Contract, WAP, CWC	Completed 2021
The Beauty of Survival: An Introduction to Reptiles	NYCDEP, GCSWCD, Mountain Top Arboretum	The Mountain Top Arboretum partnered with GCSWCD's SWSMP to offer this program about reptiles. The presentation provided an introduction to reptiles with an emphasis on reptiles found in the Catskill Mountains. The event was an online webinar due to the COVID pandemic. This program was a Schoharie Watershed Weekend 2020 summer event.	GCSWCD/ NYCDEP SMP Contract	Completed 2020
Streamside Photography Walk at the Windham Path	NYCDEP, GCSWCD	Local photographer Francis X. Driscoll led a guided photography walk at the Windham Path. This program was a Schoharie Watershed Weekend fall event.	GCSWCD/ NYCDEP SMP Contract	Completed 2020
Schoharie Watershed Tour	NYCDEP, GCSWCD, SWAC	The watershed tours are organized to provide public officials, watershed managers and landowners an opportunity to view project sites to see the range and diversity of completed and potential watershed projects. The tours offer training in relevant water resource issues and management. A Regulators Stream Project Tour was held October 27, 2020.	GCSWCD/ NYCDEP SMP Contract	Completed 2020

		In order to keep watershed communities and interested stakeholders informed of SMP implementation progress and		
		activities, the GCSWCD and its partners complete a variety		
		of outreach media and attend or host meetings. In 2020,	GCSWCD/	
		GCSWCD staff issued three press releases and three	NYCDEP	
		newsletters; GCSWCD attended and/or hosted 51	SMP	
		partner/committee meetings and two Shandaken Tunnel	Contract,	
		Outlet State Pollutant Discharge Elimination System Permit	CWC,	
Community	NYCDEP,	general meetings; and materials for two SWAC meetings	GCSWCD-	Completed
Outreach	GCSWCD	were distributed via the mail.	WAP	2020

Action Item	Partners	Description	Funding	Status
		The primary focus of the analysis was to identify the potential		
	_	for reducing flood elevations through channel and floodplain		
	Town of	restoration, as the first alternative to other hazard mitigation		
	Prattsville,	solutions and to evaluate both the technical effectiveness and		
	GCSWCD,	the benefit/cost effectiveness of each solution, and compare		
Prattsville Local	NYCDEP,	different solutions to each other for the most practical,	NYCDEP/	Completed
Flood Analysis	NYSDOT	sustainable outcome.	GCSWCD	2013
		The Flood Mitigation Analysis provided baseline hydraulic		
	Town of	modeling, evaluated the mitigation alternatives, and a Flood		
	Windham,	Engineering Analysis Report. The work completed through		
	GCSWCD,	the local flood analysis supported the efforts that were		
Windham Local	NYRCRP,	underway through the NY Rising Community Reconstruction	SMIP,	Completed
Flood Analysis	NYCDEP	Program.	NYRCRP	2015
		In 2014, the Town of Lexington began a Local Flood		
		Analysis (LFA) to determine the causes of flooding,		
	GCSWCD,	investigate and analyze the overall potential of specific		
	NYCDEP,	projects, and projects in combination, in an attempt to		
Lexington Local	Town of	mitigate flood damages and hazards. The analysis and the		Completed
Flood Analysis	Lexington	LFA report is complete.	SMIP	2016
ř		In 2016, the Town of Conesville formed a Flood Advisory		
	GCSWCD,	Committee (FAC) and began to work with consultants in		
	NYCDEP,	2016 - 2017 on a Local Flood Analysis (LFA). The LFA	SMIP,	
	Town of	helped to determine the causes of flooding, investigate and	NYCDEP/	
	Conesville,	analyze the overall potential of specific projects, and projects	GCSWCD	
Conesville Local	SCSWCD,	in combination, in an attempt to mitigate flood damages and	SMP	Completed
Flood Analysis	SC Planning	hazards.	Contract	2017
Ž		The Villages of Tannersville and Hunter and the Town of		
		Hunter coordinated on a Local Flood Analysis that will study		
	GCSWCD,	the mapped FEMA streams within the three municipalities		
	NYCDEP,	namely the Schoharie Creek, Gooseberry Creek, Sawmill	SMIP,	
	Town of	Creek, and Red Kill. The LFA was undertaken to determine	CWC,	
	Hunter,	the causes of flooding, investigate and analyze the potential	NYCDEP/	
Schoharie Corridor	Villages of	of specific projects, and projects in combination, in an	GCSWCD	
Local Flood	Hunter &	attempt to mitigate flood damages and hazards. Tannersville	SMP	Completed
Analysis	Tannersville	and Hunter LFAs are complete.	Contract	2018
·		In 2016, the Town of Ashland formed a Flood Advisory	SMIP,	
	GCSWCD,	Committee (FAC) that began to work with consultants	NYCDEP/	
	NYCDEP,	through 2017 on a Local Flood Analysis (LFA). The LFA	GCSWCD	
				1
Ashland Local	Town of	helped to determine the causes of flooding, investigate and	SMP	Completed

		in combination, in an attempt to mitigate flood damages and hazards.		
	GCSWCD,	The GCSWCD will continue to support the LFA	CWC, NYCDEP/	
	NYCDEP,	recommended project of relocating GNH Lumber to a site	GCSWCD	
Windham LFA	Town of	outside the floodplain in Windham. The project was	SMP	Withdrawn
Implementation	Windham	withdrawn because it was not feasible for the property owner.	Contract	2019

LFA IMPLEMENT	LFA IMPLEMENTATION, FLOODPLAIN MANAGEMENT COORDINATION, EDUCATION AND OUTREACH				
Action Item	Partners	Description	Funding	Status	
2008 FEMA Flood		•			
Maps: What	GCSWCD,				
Every Planner	NYCDEP,	Information regarding FEMA's Flood Maps, geared towards	NYCDEP/	Completed	
Needs to Know	FEMA	planners.	GCSWCD	2008	
		The Greene County Planning Department, GCSWCD, and			
		NYCDEP interviewed potential subcontractors and awarded			
		the development of the hazard mitigation plan to Tetra Tech,			
Greene County All	GCSWCD,	Inc. Tetra Tech worked with various municipalities and			
Hazards Mitigation	NYCDEP,	partners to gather input for the plan, which was completed in	NYCDEP/	Completed	
Plan	GCPD	2009.	GCSWCD	2009	
National Flood					
Insurance	CCCTTCD				
Program:	GCSWCD,	ANADEC C 1 O 1	NIX CDED/	0 1 1	
Intermediate	NYCDEP,	NYSDEC, course focused on flood insurance maps and	NYCDEP/	Completed	
Course	NYSDEC	elevation certificates; DOS accredited course.	GCSWCD	2009	
NL 4' 1 Pl 1	GCSWCD,		NIX/CDED/	C 1 4 1	
National Flood	NYCDEP,	Later de de la companya de la la companya NVCDEC	NYCDEP/	Completed	
Insurance Program	NYSDEC	Introductory course on floodplain management NYSDEC.	GCSWCD	2009 & 2010	
W/14-4- 1- A.C	GCSWCD,	F1d-1-id		C1-4- 4	
What to do After the Flood	NYCDEP, NYSDEC	Floodplain administrators' and community officials' guide to	SMIP	Completed 2011	
the Flood	NISDEC	surviving a flood, NYSDEC. Flooding and damage caused by Tropical Storms Irene and	SIVIIP	2011	
	GCSWCD,	Lee led to emergency stream work training. Training content			
	NYCDEP,	developed by contributors from DEP, UCSWCD, GCSWCD,			
	UCSWCD,	CCE Ulster, Trout Unlimited, and Shandaken Highway Dept.			
	UCCCE, TU,	One session was presented by Ulster County and two sessions			
Post Flood	Shandaken	were presented in Greene County. Over 200 attendees were	NYCDEP/		
Emergency Stream	Highway	trained in basic consideration that should be addressed when	GCSWCD,	Completed	
Work Training	Dept.	planning an emergency intervention in a stream system.	UCSWCD	2012	
<u> </u>	GCSWCD,	The training, held in Ulster, Greene, and Dutchess counties,			
	UCCCE,	was tailored to local highway departments, excavation			
	NRCS,	contractors, and others involved in stabilizing streams	NYCDEP,		
Post Flood Stream	NYCDEP,	following flood events. The training focused on the basics of	GCSWCD,		
Intervention	UCSWCD,	stream process and the limits of what should be targeted for	UCSWCD,	Completed	
Training	TU	repair in the immediate days follow destructive flooding.	UCCCE	2012 & 2013	
		The Town of Conesville assisted a landowner by acquiring a			
		floodplain parcel approved for FEMA Pre-Disaster Mitigation			
		funding (75%) and demolishing and removing the home. The			
		SMIP grant was used to assist the Town in meeting the			
Manor Kill	GCSWCD,	required 25% match. The project, which involved demolition	NYCDEP/		
Acquisition (Town	NYCDEP,	and site restoration, was completed with demolition and site	GCSWCD,	Completed	
of Conesville)	SCSWCD	restoration occurring in June, 2013.	FEMA	2013	

Mitigation Plan NYCDEP, GCSWCD, SPMO, FEMA, Watershed Municipalities GCBWCD, SPMO, FEMA, Watershed Municipalities GCSWCD, SCON GRAND Program Grand Program Grand Porgram Grand Porgram Flood Buyout Flood Buyout Program NYCDEP, GCSWCD, Schoharie NYCDEP,					1
NYCDEP, GGSWCD, SEMO, PEMA, Watershed Municipalities , GC watershed properties that are not eligible for state assistance. Development, Flood Buyout Program NYCDEP, GGSWCD, Schoharie NYCDEP, GGSWCD, Schoharie Watershed Municipalities , GC watershed properties that are not eligible for state assistance. Development, Tourism & Planning, Planning, Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program had has served as the technical and outreach lead for some Schoharie Watershed municipalities. The program with erosion hazard buyout properties and is one so going. Two properties, GTown of Jewett and Town of Conesville) Watershed Municipalities NYCDEP, GGSWCD, Schoharie Watershed Municipalities NYCDEP flood Buyout Program Manor Kill NYCDEP, Floodplain GGSWCD, Enhancement Manor Kill NYCDEP, Sawmill Creek Create involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100 year flood elevations at this location; reduce stream power and velocity; provide reduce crosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek Channel Village of Assessment Tamersville Tamersville The GCSWCD, CCE, GGSWCD, CCE, GGSWCD, Management for Real Estate Professionals NYCDEP, GCSWCD, CCE, Real Estate NYCDEP, GCSWCD, CCE, Real Estate NYCDEP, GCSWCD and partners will provide technical and beneficial functions of floodplains, floodplain management, types of floodplain and management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of floodplain and hood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of thunter Firehouse Relocation, GCSWC	All Hazards Mitigation Plan Undates	NYCDEP,	NYCDEP and other stakeholder organizations updated the		
GCSWCD, SEMO, PEMA, Watershed Municipalities, GC Economic Development, Tourism & Planning, Program Pro	Opunes		CAISTING TAIL HUZUIGS WITH gutton I lun.	GCSWCD	2013
SEMO, FEMA, Watershed Municipalities, G. Completed September of Grant Program of Grant Program by covering the 25% non-federal match for watershed program by covering the 25% non-federal match for watershed program by covering the 25% non-federal match for watershed program by covering the 25% non-federal match for watershed program by covering the 25% non-federal match for watershed program by covering the 25% non-federal match for watershed program of committee the property in perpetuty as open floodplain space, therefore climinating future flood damage to the parcel. Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Sehoharie Watershed dumicipalities. The program with crossion hazard buyout properties and is one spenjong water shed with crossion hazard buyout properties and is one spenjong water shed dumicipalities. The program in 2017. The Manor Kill Ploodplain Enhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erasion and sedimentation. The GCSWCD. Assessment Tannersvill Ta					
FEMA, Watershed Municipalities of Compared Program 23 eligible landowners in 8 Greene County towns following Municipalities of Compared Program 25 more properties and conservation on essement for watershed properties that are not eligible for state assistance. Development, Tourism & Planning. 25 more properties are issued to maintain the property in perpetuity as proporties are issued to maintain the property in perpetuity as proporties are issued to maintain the property in perpetuity as proporties are issued to maintain the property in perpetuity as proporties and is on-going. 5 more Schoharie 7 more			The GCSWCD facilitated a FEMA flood buyout program for		
Watershed Municipalities GC Watershed Municipalities GC Watershed Program by covering the 25% non-federal match for watershed properties that are not eligible for state assistance. Deed restriction and conservation easement for watershed properties are issued to maintain the property in perpetuity as open floodplain space, therefore eliminating future flood NYCDEP MYCDEP GCSWCD, Schoharie Watershed Wate		· ·			
Municipalities , GC Hazard Mitigation Grant Program Hood Buyout Program Polymer Manuscription (CSWCD) Admags to the parcel. NYCDEP Flood Buyout Program and Flood Buyout Program Interporter Wall Flood Buyout Program Interporter Wall Flood Buyout Program Interporter Wall Flood Buyout Program NYCDEP Flood Buyout Program Interport Wall Read State Professionals Wall Read State Professionals Wall					
Mazard Mitigation Grounding Groundin					
Deed restriction and conservation easement for watershed properties are issued to maintain the property in perpetuity as open floodplain space, therefore climinating future flood admage to the parcel. Planning,					
Grant Program Plood Buyout Program Planning, Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD has helped to facilitate the program began in 2017. GCSWCD began with erosion hazard buyout properties and is on-going. Watershed Wa	Hazard Mitigation				
Flood Buyout Program Planning. Planning and amage to the parcel. Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Schoharie watershed Municipalities. Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Schoharie Watershed Municipalities. The program has served as the technical and outreach lead for some Schoharie Watershed municipalities. The program has served as the technical and outreach lead for some Schoharie Watershed municipalities. The program in 2017. NYCDEP GCSWCD SMP Contract SMP Completed participation in the program in 2017. The Manor Kill Floodplain benhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. SMIP 2019	<u> </u>			FEMA	
Program Planning, damage to the parcel. Planning and implementation of the NYCDEP flood buyout Program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Schoharie Watershed Buyout Program began with erosion hazard buyout properties and is on-going. NYCDEP Flood Buyout Program Municipalities NYCDEP, GCSWCD, Schoharie Watershed Buyout Program Municipalities NYCDEP, GCSWCD The shelped to facilitate the program and pass served as the technical and outreach lead for some Schoharie Watershed municipalities. The program may program began with erosion hazard buyout properties and is on-going. The Manor Kill Floodplain Enhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. The GCSWCD, vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD good damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis		-			Completed
Planning and implementation of the NYCDEP flood buyout program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Schoharie Watershed Municipalities. The program began with erosion hazard buyout properties and is on-going. Two properties, (Town of Jewett and Town of Conesville) completed participation in the program in 2017. The Manor Kill Floodplain Enhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain and construction of a floodplain bench. The floodplain and sedimentation. Manor Kill NYCDEP, GCSWCD, vegetative bank treatments to stabilize the streambanks, and construction of a floodplain bench. The floodplain and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). Technical Support for the following projects: Village of Hunter Firehouse Relocation, NYCDEP/ GCSWCD Schoharie Watershed Wa					
Program began in 2017. GCSWCD has helped to facilitate the program and has served as the technical and outreach lead for some Schoharie Watershed	Trogram	r iummig,		TVTCDEI	2010
NYCDEP, GCSWCD, Schoharie NYCDEP Flood Buyout Program Matershed Municipalities NYCDEP Flood Buyout Program Matershed Municipalities MycDEP MycDE					
GCSWCD, Schoharie began with erosion hazard buyout properties and is on-going. NYCDEP GCSWCD Watershed Municipalities Two properties, (Town of Jewett and Town of Conesville) Completed participation in the program in 2017. The Manor Kill Floodplain Enhancement was a recommended of project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and SCSWCD reduce erosion and sedimentation. SMIP 2019 The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Assessment Tannersville The GCSWCD conducted a Stream Feature Inventory for Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, flooding and flood damage, flood firequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed County Highway Department Relocation, and NYCDEP GCSWCD Completed County Highway Department Relocation, and NYCDEP GCSWCD Completed Completed County Highway Department Relocation, and SMP Completed Completed Completed Completed County Highway Department Relocation, and SMP Completed C		NYCDEP			
Schoharie Watershed Buyout Program Schoharie Watershed Watershed Buyout Program Schoharie Watershed Watershed Buyout Program Schoharie Watershed Watershed Wunicipalities Schoharie Watershed Buyout Program Schoharie Watershed Wunicipalities Schoharie Watershed Buyout Program Barband Barband Program Barband Barba				NYCDEP/	
NYCDEP Flood Buyout Program Watershed Municipalities NYCDEP, Sawmill Creek Channel Assessment NYCDEP, Channel Channel Assessment NYCDEP, Channel Channel Assessment NYCDEP, Channel Chann					
Buyout Program Municipalities completed participation in the program in 2017. Contract 2017 The Manor Kill Floodplain Enhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Assessment Tannersville The GCSWCD, Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood GCSWCD amaps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed Com	NYCDEP Flood				Completed
The Manor Kill Floodplain Enhancement was a recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. SMIP The GCSWCD, The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also Completed Sessement Tannersville The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The COSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood GCSWCD maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed SMP					
recommended project identified during the Conesville LFA. The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. The GCSWCD produced a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). Technical Support for LFA. The property was part of a DEP buyout and the existing structures and the National Flood analysis. In SMP Total Completed SMP Completed SMCD, global in a municipality's local flood analysis. In SMP Technical Support for LFA. Recommended Watershed Watershed The project will frequency and management for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and SMP Completed SMP	Bujoutifogram	1,1dillelpalities		Communic	2017
The property was part of a DEP buyout and the existing structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and SCSWCD reduce erosion and sedimentation. SCSWCD reduce erosion and sedimentation. SMIP 2019 The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. SMIP 2019 The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood GCSWCD maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed S					
structure has been demolished under CWC's program. The project involved removal of fill from the right stream bank, and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide vegetative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD, flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone Structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Watershed Structure has been demolished under CWC's program. The project will reduce 100-year flood elevations at this location; and construction of floodplain bench. The floodplain the right stream bank, and construction of all code structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Watershed SMIP Completed S					
manor Kill NYCDEP, Eloodplain bench. The floodplain bench. The flood bench is this location; reduce stream power and velocity; provide between this peace of this peace of the same provide between the flood bench is the flood bench is the flood bench is determined between the flood bench is determined between the flood bench is determined bench. The flood bench is the flood bench is determined bench. The flood bench is thi					
and construction of a floodplain bench. The floodplain enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide reduce crosion and sedimentation. SCSWCD vegetative bank treatments to stabilize the streambanks, and reduce crosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and Technical Support for the following projects: Village of Hunter Firehouse Relocation, and Completed Complet					
manor Kill NYCDEP, gestative bank treatments to stabilize the streambanks, and reduce erosion and sedimentation. SCSWCD reduce erosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, Village of Assessment Tannersville completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, GCSWCD, functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Watershed enhancement project will reduce 100-year flood elevations at this location; reduce stream power and velocity; provide reduce to stream power and velocity; provide reduce of this location; reduce stream power and velocity; provide reduce or reduce erosion and sedimentation. SMIP 2019 The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also Completed SMIP 2019 The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD and partners will provide frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and SMP Completed					
Manor Kill Floodplain GCSWCD, Enhancement SCSWCD Enhancement Floodplain SCSWCD Enhancement Floodplain SCSWCD Floodplain Floodplain SCSWCD Floodplain Floodplain SCSWCD Floodplain					
Floodplain Enhancement GCSWCD Enhancement GCSWCD SCSWCD The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to NYCDEP, determine the effects of stormwater runoff from Railroad Assessment Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood Real Estate AWSMP, UCDE Tofessionals NYCDEP, GCSWCD, and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and Completed SMIP 2019	Manor Kill	NYCDEP			
Enhancement SCSWCD reduce erosion and sedimentation. The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stornwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also Assessment Tannersville completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Watershed The GCSWCD ordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD coordinated a Floodplain management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD ordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed Completed NYCDEP/ GCSWCD SMP Completed		· ·			Completed
The GCSWCD conducted a Stream Feature Inventory for the Sawmill Creek. Further assessment was conducted, to determine the effects of stormwater runoff from Railroad Avenue. An engineering analysis of the embankment, between Railroad Avenue and the stream, was also Completed Completed. SMIP 2019 The GCSWCD, Coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and Completed NYCDEP/GCSWCD SMP Completed	-			SMIP	
Sawmill Creek NYCDEP, GCSWCD, Channel Assessment NYCDEP, Channel Assessment Tannersville Floodplain Management for Real Estate Professionals NYCDE AWSMP, Professionals NYCDE AWSMP Completed NYCDE AWSMP NYCDE AWSMP NYCDE AWSMP Professionals NYCDE AWSMP NYCDE AWSMP NYCDE AWSMP Professionals NYCDE		2021102		51111	_019
Sawmill Creek Channel Assessment NYCDEP, GCSWCD, Village of Assessment Tannersville The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30 th , 2019. NYCDEP, Floodplain GCSWCD, Management for Real Estate Professionals Completed SMIP The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone Professionals Completed SMIP NYCDEP/ GCSWCD, Flooding and flood damage, flood frequency, using flood maps, basics of flood insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and NYCDEP/ GCSWCD SMP Completed NYCDEP/ GCSWCD SMP Completed ONYCDEP/ GCSWCD SMP Completed					
Sawmill Creek Channel Channel Channel Channel Assessment Tannersville The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood professionals NYCDEP, Technical Support for LFA Recommended Real Estate Completed SMIP SMIP Completed 2019 The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood GCSWCD maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed NYCDEP/ GCSWCD SMP Completed Completed NYCDEP/ GCSWCD SMP Completed		NYCDEP.			
Channel Village of Tannersville between Railroad Avenue and the stream, was also completed. SMIP 2019 The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed Structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Village of Tannersville completed. The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed	Sawmill Creek				
Assessment Tannersville completed. SMIP 2019 The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended Watershed The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30th, 2019. The GCSWCD, flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and SMP Completed					Completed
The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30 th , 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed structures and the National Flood Insurance Program (NFIP). Technical Support for LFA Recommended The GCSWCD coordinated a Floodplain Management for Real Estate Professionals workshop, held October 30 th , 2019. The GCSWCD, flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed STructures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed		_	·	SMIP	
Real Estate Professionals workshop, held October 30th, 2019. NYCDEP, GCSWCD, Management for Real Estate Professionals workshop, held October 30th, 2019. The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and Recommended Real Estate Professionals workshop, held October 30th, 2019. NYCDEP/ GCSWCD SMP Completed NYCDEP/ GCSWCD SCHORL SMP Completed					
NYCDEP, GCSWCD, Management for Real Estate Professionals NYCDEP, GCSWCD, The course presented information about natural and beneficial functions of floodplains, floodplain management, types of flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone SMP Completed structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended NYCDEP/ GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, and SMP Completed Completed Completed					
Floodplain Management for Real Estate Professionals GCSWCD, CCE, AWSMP, UCDE GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, and Recommended GCSWCD, Schoharie Watershed GCSWCD, GCSWCD, GCSWCD, Schoharie Watershed GCSWCD, GCSWCD, GCSWCD, GCSWCD, Schoharie Watershed GCSWCD, GCSWCD SMP Completed NYCDEP/ GCSWCD SMP Completed Completed		NYCDEP,			
Management for Real Estate AWSMP, Department For Becommended Recommended Real Estate Professionals CCE, and flooding and flood damage, flood frequency, using flood maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed NYCDEP/GCSWCD Schoharie Watershed Greene County Highway Department Relocation, and Completed	Floodplain	· ·		NYCDEP/	
Real Estate Professionals AWSMP, UCDE maps, basics of flood insurance, retrofits for flood-prone structures and the National Flood Insurance Program (NFIP). GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended NYCDEP/ GCSWCD, Schoharie Watershed Mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and Completed NYCDEP/ GCSWCD SMP Completed	Management for			GCSWCD	
GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended NYCDEP, GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD Greene County Highway Department Relocation, and GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP/ GCSWCD, Schoharie Watershed Order of the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed	Real Estate	AWSMP,		SMP	Completed
GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended NYCDEP, GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD Greene County Highway Department Relocation, and GCSWCD and partners will provide technical support and mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP/ GCSWCD, Schoharie Watershed Order of the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed	Professionals	UCDE		Contract	2019
mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended Matershed mapping assistance for relocation projects that have been recommended in a municipality's local flood analysis. In 2020, the GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD Greene County Highway Department Relocation, and SMP Completed					
recommended in a municipality's local flood analysis. In NYCDEP, GCSWCD, Schoharie Recommended NYCDEP, GCSWCD, Schoharie Watershed Recommended Recommended NYCDEP/ Following projects: Village of Hunter Firehouse Relocation, Greene County Highway Department Relocation, and NYCDEP/ GCSWCD SMP Completed			· · · · · · · · · · · · · · · · · · ·		
Technical Support for LFA Recommended NYCDEP, GCSWCD, Schoharie Recommended NYCDEP, GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, GCSWCD SMP Completed			11 0		
Technical Support for LFA Recommended GCSWCD, Schoharie Recommended GCSWCD, Schoharie Watershed GCSWCD, Schoharie Watershed Watershed GCSWCD provided mapping support for the following projects: Village of Hunter Firehouse Relocation, and GCSWCD SMP Completed		NYCDEP,	1 ,		
for LFA Schoharie Watershed Schoharie Watershed Schoharie Firehouse Relocation, GCSWCD SMP Completed	Technical Support		1 11 0 11	NYCDEP/	
Recommended Watershed Greene County Highway Department Relocation, and SMP Completed	for LFA				
	Recommended		, , ,		Completed
	Relocation Projects		Windham-Ashland-Jewett School Bus Garage Relocation.		

HIGHWAY, INFR	RASTRUCTURE A	AND STORMWATER MANAGEMENT		
Action Item	Partners	Description	Funding	Status
		GCSWCD provided seeding assistance in the Towns of		
		Hunter, Ashland, Tannersville, Jewett, and Lexington in		
	GCSWCD,	2007; the Towns of Windham, Ashland, Jewett, and Hunter		
	NYCDEP,	in 2008; the Towns of Windham, Hunter, Ashland, Hunter,		Completed
Critical Area	Schoharie Basin	and Lexington in 2009; the Towns of Lexington, Windham,	NYCDEP/	Annually
Seeding	Municipalities	Tannersville and Hunter in 2010.	GCSWCD	2007-2010
		Town of Lexington: GCSWCD/NYCDEP worked with		
		Greene County Highway Department to upgrade a		
		significantly undersized culvert that was the source of		
		repetitive flooding in the Hamlet of Lexington. The project		
		had excellent community and landowner support and		
County Route	GCSWCD,	demonstrated floodplain drainage concepts, proper		
13A Culvert	NYCDEP,	conveyance sizing to allow fish migration and a riparian	NYCDEP/	Completed
Upgrade	Lexington	buffer component.	GCSWCD	2007
	GCSWCD,	Provided Operation and Maintenance Plan and implemented		
	NYCDEP,	stormwater maintenance and cleaning of the stormwater	NIVODED/	
	Hunter	controls at the Hunter Highway Garage. Annual maintenance	NYCDEP/	Com:-1-4 1
Humton Highway	Highway	in 2008 captured 6.3 tons (3.6 cubic yards) of sand and salt	GCSWCD, CWC	Completed
Hunter Highway	Department GCSWCD,	from entering the downstream Schoharie Creek. Provided technical assistance including hydrology and	CWC	2008
Hydraulic	NYCDEP,	hydraulic assessment to better size culvert for Greene	NYCDEP/	Completed
Analysis	GCHD	County Highway Department.	GCSWCD	2008
Allalysis	ОСПО	Permit specifications were obtained from the Greene County	GCSWCD	2008
		Highway Department and given to the Highway		
		Subcommittee in December 2009 in order to provide		
		watershed communities with a model to consider when		
		issuing permits. Each community will follow up based on		
	GCSWCD,	their level of comfort. Some communities do not use		
Driveway/Curb	NYCDEP,	driveway regulations, preferring to assess on sight and guide	NYCDEP/	Completed
Cut Specifications	GCHD	landowners.	GCSWCD	2009
		Upon further review with local and county highway		
		departments, cost sharing for road abrasive was determined		
Road Abrasives		to be unfeasible due to limited funding available to support		Completed
Program	GCSWCD	offsetting costs over time.		2009
		GCSWCD has initiated a series of projects to help develop		
		Community Stormwater Management Plans for town and		
		villages in the Schoharie Basin. GCSWCD has detailed		
	GCSWCD,	information on stormwater structures, for the towns of		
Community	NYCDEP,	Ashland and Prattsville, in GIS format. Community		
Stormwater	Schoharie Basin	Stormwater Management Plans for Tannersville, Hunter, and	NYCDEP/	Completed
Planning	Municipalities	Windham have been obtained.	GCSWCD	2009
		Following discussions between GCSWCD and Hunter		
TT . 3.6	GCSWCD,	Mountain, it was determined that Hunter Mountain had		
Hunter Mountain:	NYCDEP,	received funding through the CWC Stormwater Program and	CHIC	Completed
Village of Hunter	Hunter, CWC	completed stormwater retrofits for their parking areas.	CWC	2009
		GCSWCD installed stormwater treatments to serve		
		approximately 4.7 acres of relatively high density		
		commercial buildings and residential homes in the hamlet of		
		Maplecrest, in the town of Windham. The components were		
		initiated with an upgraded conveyance system and demolition of a single building to reduce impervious surfaces	NYCDEP/	
Sugar Maples		and allow for pervious grass parking area. Rain gardens (7),	GCSWCD,	
Stormwater	GCSWCD,	wetland (treats 4.7 acres of runoff), porous walkways and	ACOE,	Completed
Project	NYCDEP	riparian planting beds were installed.	CWC	2010
110,000	I I I CDDI	Tipatian planting occo were insumed.		2010

Mountain Top Library &	GCSWCD, NYCDEP, Mountain Top	GCSWCD worked with Mountain Top Library Capital Campaign on a stormwater retrofit project. This project was initiated in conjunction with the rehabilitation of a building that will be used as the Mountain Top Library and Learning Center. Innovative methods were used to meet water quality	SMIP, ACOE,	Completed
Learning Center	Library	treatment standards for runoff from roofs and parking.	CWC	2011
Windham Mountain	GCSWCD CWC ACOE-WRDA	GCSWCD worked with Windham Mountain Ski Center to evaluate, assess, design and install stormwater management practices. An on-site pond was converted to a stormwater facility; the pond was expanded and improvements were installed in order to route 27 acres of drainage area into the pond.	GCSWCD CWC ACOE- WRDA	Completed 2011
Village of Tannersville Highway Dept. Technical Assistance	GCSWCD, NYCDEP, Village of Tannersville Highway Department	The Village of Tannersville requested assistance on sizing a culvert under Spring Street. GCSWCD inspected the existing culverts under the road and provided the village with a variety of culvert sizing options which would increase the flow capacity of the culvert system. The information was forwarded to the Village of Hunter Highway Department in March 2011.	NYCDEP/ GCSWCD	Completed 2011
Partridge Road Culvert Replacement	GCSWCD, NYCDEP, Ashland Highway Department	The culvert under B.G. Partridge Road, in the Town of Ashland, was undersized which contributed to roadway flooding during high flows. The culvert was also perched, which presented a barrier for fish passage. GCSWCD worked with the Town of Ashland Highway Department to design a properly sized culvert and oversee the installation of this culvert. A grant was approved by SWAC/SMIP to offset the costs of upgrading the culvert to a larger size. Design, permitting and construction were completed in the summer of 2011.	NYCDEP/ GCSWCD, SMIP	Completed 2011
Mitchell Hollow Road (CR 21) Stormwater Sewer Upgrade	GCHD, GCSWCD, NYCDEP, Town of Windham	Installed water quality treatment components associated with 370' of stormwater sewer with catch basins along Mitchell Hollow Road. Project mitigates stormwater flooding in area along NYS Route 23. Project completed without SMIP funds.	SMIP, NYCDEP/ GCSWCD SMP Contract	Completed 2011
Critical Area Seeding	GCSWCD, NYCDEP, Schoharie Basin Municipalities	GCSWCD continues to partner with all highway departments to provide critical area seeding for roadside ditches and slopes using the district's hydroseeder and power mulcher.	NYCDEP/ GCSWCD	Completed Annually 2011-2015, 2018
Griffin Road Culvert Replacement	GCSWCD, NYCDEP, Jewett	The existing culvert under Griffin Road in the Town of Jewett was undersized and washed out during the flooding caused by Hurricane Irene. GCSWCD and Delaware Engineering provided design plans, permits, specifications and contract documents for bidding, funding, construction management and administration for the culvert replacement. The new culvert was designed to withstand the 100-year runoff event and included a habitat friendly three sided precast concrete structure with wing walls at the inlet and outlet. Road improvements and stream enhancements, including an upstream cross vane, were installed.	FEMA NYCDEP/ GCSWCD	Completed 2012

		This project included stabilization of the slope failure along		
		County Route 6 and the West Kill in Lexington. Practices		
		installed included the use of rock riffles and sheet piling to	GCSWCD	
		elevate stream profile adjacent to the slope failure, to help	GC	
	GCSWCD	buttress the failing slope and to provide grade control. The	Highway	
	GC Highway	installation of rock revetment to protect the toe of the slope	Dept.	
	Dept.	from erosion and stormwater drainage in the area of the	NYCDEP	
County Route 6	NYCDEP	failure to help maintain moisture levels in the soil profile	NRCS	Completed
Slope Failure	NRCS EWP	was completed.	EWP, ESD	2014
		The GCSWCD worked with the Hunter Foundation to design		
		and implement a demonstration project integrating		
	GCSWCD,	stormwater management in an area with limited space.		
	NYCDEP,	Innovative methods including, porous gravel parking,		
Hunter	Hunter	bioswales and rain gardens, were used to meet water quality		Completed
Foundation	Foundation	treatment standards for runoff from roofs and parking.	SMIP	2014
		The GCSWCD worked with the Village of Hunter Highway		
		Department to design and properly size the culvert under		
	Village of	Glen Avenue near the entrance of Camp Loyaltown. Design		
	Hunter	of this project was partially funded by the Schoharie		
	Highway	Watershed Stream Crossing/Culvert Design SMIP funding.		
	Department,	Installation was completed in 2015 with a buried bottom for	SMIP,	
Glen Avenue	GCSWCD,	improved habitat. Supplemental plantings were installed in	ESD,	Completed
Culvert Upgrade	NYCDEP	2016.	FEMA	2016
Curvert opgrade	TTCDLI	The GCSWCD worked with the Town of Hunter Highway	I LIVIZ I	2010
		Department to design, properly size and oversee the		
		installation of this culvert. Design of this project was		
	Town of Hunter	partially funded by the Schoharie Watershed Stream		
	Highway	Crossing/Culvert Design SMIP funding. The upgrade culvert	CMID	
C	Department,	was installed in 2016 and will be able to convey 100-year	SMIP,	C1-4-4
Cranberry Road	GCSWCD,	storm flows, reduce negative impacts to water quality and	ESD,	Completed
Culvert Upgrade	NYCDEP	improve aquatic habitat and fish passage.	FEMA	2016
		This project replaced a culvert that conveys stream flow		
		from an unnamed tributary to the Schoharie Reservoir under	a	
	SC Department	South Gilboa Road. The SCSWCD worked with the	SMIP,	
	of Public	Schoharie County Department of Public Works, NYCDEP	SCDPW,	
	Works,	and Milone and MacBroom to design and install a culvert	NYCDEP/	
South Gilboa	SCSWCD,	that will provide for the appropriate alignment and structure	GCSWCD	
Road Stormwater	GCSWCD,	to convey flow and reduce turbid discharges directly to the	Schoharie	Completed
Mitigation Project	NYCDEP	reservoir.	Contract	2016
		GCSWCD continued to partner with municipal highway		
		departments within the watershed to provide critical area		
	GCSWCD,	seeding for roadside ditches and slopes using the district's		
	NYCDEP,	hydroseeder and power mulcher. GCSWCD provided		
Critical Area	Schoharie Basin	seeding assistance in the Towns of Hunter, Ashland, Jewett,	NYCDEP/	Completed
Seeding	Municipalities	and Windham in 2016.	GCSWCD	2016
_	_	After the winter season, highway crews sweep road		
		abrasives using different machines. Greene County owns a		
		sweeper with a vacuum that is effective at collecting leftover		
		sand material and cleaning out stormwater structures. Given		
	Highway	its limited availability, a second sweeper was purchased for		
	Superintendents	the mountaintop communities to allow more road miles to be		
	Subcommittee,	cleaned and maintained across the mountaintop, thereby		
Street Sweeper	NYCDEP,	reducing the amount of abrasives washing into ditches and	CWC,	Completed
with Vacuum	GCSWCD	waterways.	SMIP	2017
with vacuum	GCDWCD	water ways.	SIVIII	2017

	ı		I	I
County Route 2 Culvert Upgrade, Little West Kill	GCHD, GCSWCD, NYCDEP, Town of Lexington	The project replaced a culvert that conveys stream flow from the Little West Kill under County Route 2. The previous culvert alignment contributed to localized streambank instabilities and discontinuity of sediment transport. The replacement culvert will improve road stability, flow conveyance, sediment transport continuity, habitat connectivity and aquatic organism passage. GCSWCD partnered with municipal highway departments	SMIP, NYCDEP/ GCSWCD, GCHD	Completed 2017
Critical Area Seeding Hunter Wetlands	GCSWCD, NYCDEP, Schoharie Basin Municipalities	within the watershed to provide critical area seeding for roadside ditches and slopes using the district's hydroseeder and power mulcher. GCSWCD provided 9.8 acres of highway seeding assistance in the Towns of Windham, Hunter, Jewett and Lexington in 2017.	NYCDEP/ GCSWCD	Completed 2017
Leachate Treatment System Remediation - Implementation	Mountaintop Towns, GCSWCD, NYCDEP	Installed a remediation implementation project to address the problems with the Hunter Landfill Wetland Treatment System effluent discharges. Several stormwater management practices were installed to	SMIP	Completed 2017
Kaaterskill United Methodist Church Stormwater/Rain Harvesting Project	NYCDEP, GCSWCD, Kaaterskill United Methodist Church	treat the water from the roof drainage and provide storm water infiltration. These include rooftop rain harvesting (gutter system), and above ground cistern to capture the runoff and serve as a water source for the community garden, and four rain gardens to provide stormwater filtration and infiltration.	SMIP NYCDEP/ GCSWCD	Completed 2019
Schoharie Watershed Stream Crossing/ Culvert Design	Highway Superintendents Subcommittee, NYCDEP, GCSWCD	To support local highway departments three SMIP grants have been awarded (\$50,000, \$30,000, \$75,000, and \$24,000) to fund engineering design services to ensure prioritized culverts/embankments are designed properly. County Routes 2 and 78 culverts are being designed using these monies. The culverts are upgraded to reduce stream instability and associated pollutants, allow for proper conveyance and passage of aquatic organisms.	SMIP	Completed 2019
County Route 2 Culvert on Tributary to West Kill	NYCDEP, GCSWCD, GCHD	Replaced a culvert crossing on an unnamed tributary to the Little West Kill. The culvert had capacity issues that resulted in bed instability upstream and downstream of the structure. Increased flow capacity at this culvert will reduce the frequency of backwater and mitigate instability near the culvert that results from a discontinuity of sediment transport. Replacement of the culvert will also result in a structure with fewer impacts to habitat connectivity and aquatic organism passage.	SMIP	Completed 2019
Beech Ridge Road Embankment Stabilization Assessment	NYCDEP, GCSWCD, Town of Lexington Highway Department	This project involved assessment of the toe of an eroding bank that threatens the stability of Beech Ridge Road in the Town of Lexington. At this site, there is significant erosion and sediment loading which compromises the water quality of West Kill and Schoharie Creek.	SMIP	Completed 2019
Critical Area Seeding and Slope Stabilization Program	GCSWCD, NYCDEP, County and Municipal Highway Departments	GCSWCD has partnered with local highway departments, within the Schoharie Reservoir Drainage Basin, to provide critical area seeding of 21 sites, totaling seven roadside miles using the district's hydroseeder and power mulcher.	NYCDEP/ GCSWCD Schoharie SMP Contract	Completed 2019

	GCSWCD,			
Critical Area	NYCDEP,		NYCDEP/	
Seeding and	County and	GCSWCD has partnered with local highway departments,	GCSWCD	
Slope	Municipal	within the Schoharie Reservoir Drainage Basin, to provide	Schoharie	
Stabilization	Highway	critical area seeding of 16 sites, totaling five roadside miles	SMP	Completed
Program	Departments	using the district's hydroseeder and power mulcher.	Contract	2020
		This project replaced an existing culvert crossing on an		
		unnamed tributary to the East Kill. The culvert replacement		
County Route 78		will improve conveyance through the culvert and reduce		
Culvert on	NYCDEP,	impacts to bed and bank stability upstream and downstream		
Tributary to East	GCSWCD,	of the structure. The culvert replacement will improve		Completed
Kill	GCHD	habitat connectivity and aquatic organism passage.	SMIP	2020

OUTREACH AND T	OUTREACH AND TECHNICAL SUPPORT TO HIGHWAY DEPARTMENTS, STORMWATER MANAGERS, AND CONTRACTORS					
Action Item	Partners	Description	Funding	Status		
Impacts from Road Ditch Erosion DEP and DEC Stormwater Regulations	GCSWCD/ NYCDEP GCSWCD/ NYSDEC/	Results of a field study on the impact of road ditch instability on erosion and sedimentation. Presentation of NYSDEC and NYCDEP stormwater	NYCDEP/ GCSWCD NYCDEP/ GCSWCD,	Completed 2007 Completed Annually		
Roadside Ditch Maintenance Workshop Mountain Top Highway Ditch Re- vegetation Program	GCSWCD, NYCDEP	regulations. NYSDOT, Greene County Highway and most Greene County municipalities in the Schoharie Watershed attended the workshop which covered 1) Impacts from roadside ditches on water quality and municipal budgets, 2) General ditch maintenance and importance of proper erosion control, 3) Distinctions with topography, soils, slopes, and drainage, 4) Cost factors, different applications and lifespan, and 5) Selective ditching, how to prioritize to save money and minimize water quality impacts. Program to encourage greater use of critical area seeding equipment that the GCSWCD has available for highway departments by offsetting the cost of seed and mulch. In 2011, GCSWCD worked with highway departments, seeding 3 miles of roadway ditches.	SMIP	Completed 2011 Completed Annually 2011-2015		
NYS DEC endorsed Erosion and Sediment Control Required Construction Activity Training Schoharie Watershed Stream Crossing Workshop	NYSDEC, NYCDEP, GCSWCD GCSWCD, GCHD, NYCDEP, NYSDOT, Local Highway Departments	This training targeted contractors, engineers, local government and watershed residents and provided knowledge about why stormwater is a concern and information on the new GP-0-15-002 permit. The training also informed participants about the requirements of stormwater pollution prevention plans (SWPPP). Participants learned about erosion and sediment control practices and how to perform site inspections, and how to obtain technical assistance on erosion and sediment control problems. Developed, designed and implemented a culvert workshop for local highway departments that highlighted the importance of proper design and installation of culverts for sediment transport, fish passage, and incorporates principles using natural channel design for long-term stability, protection of water quality and health of streams.	NYCDEP, GCSWCD	Completed 2015 and 2017 Completed 2016		

	NACDED	Develop, design, and implement a highway ditch stabilization workshop for local highway departments. Attendance will be mandatory for those interested in applying for funding	CCGWCD	
Highway Ditch	NYCDEP, GCSWCD,	through the Mountaintop Highway Ditch Stabilization Project (awarded by SMIP). This workshop occurred on April 18th,	GCSWCD NYCDEP	
Stabilization	SWAC, EJ	2016 with presenters coordinated through EJ Prescott. Critical	SMP	
Workshop	Prescott	area seeding has been demonstrated annually since 2016.	Contract	Complete 2019

Project Title	Partners	Description	Funding	Status
		Town of Jewett- East Kill: planted 124 trees and shrubs,		
		hydroseeded and interplanted the riprap at the Greene County		
	GCSWCD,	Highway Dept. bridge replacement in Jewett over the East	GCSWCD,	Completed
Shadow Mountain	NYCDEP	Kill.	NYCDEP	2007
		A protocol for identifying potential planting sites based upon		
		stream management planning researched was evaluated. Also,		
Riparian Buffer		GCSWCD approached five of the identified parcel owners		
Implementation	GCSWCD,	and moved forward with the Carr Road riparian restoration	GCSWCD,	Completed
pilot	NYCDEP	project.	NYCDEP	2007
		Town of Jewett- Schoharie Creek: The project had three		
		components including, stem injection treatment of Japanese		
		knotweed to prepare location for re-vegetation with native		
		species, planting of a 100 foot wide buffer along the		
		streambank, and enhancing the existing buffer on the	GCSWCD,	
	GCSWCD,	immediate streambank by tapering the bank and planting	NYCDEP,	Completed
Carr Road Project	NYCDEP	willow tublings and stakes.	ACOE	2007-2009
J		In 2007-2008, the Catskill Streams Buffer Initiative (CSBI)		
		was developed to educate and assist streamside landowners in		
		order to provide for improved stewardship of riparian areas.		
Riparian Program	GCSWCD,	GCSWCD & NYCDEP established guidelines, policies and	GCSWCD,	Completed
Development	NYCDEP	protocols for the implementation of the program.	NYCDEP	2008
Бетегоринен	TUTCDEI	This program supported enhancement and utilization of	TUTEBEI	2000
		GCSWCD's own nursery at the Plant Materials Center, to		
		supply plant material for various planting and seeding		
		projects. The native seed program was initiated in 2008.		
		Currently, seeds are collected by Greenbelt Native Plant		
		Center and plants are grown to tubelings. One Nature Nursery		
Plant Materials	CCCWCD	picks up the tubelings and grows them out for an additional	GCSWCD,	Completed
	GCSWCD,	year. GCSWCD continues to receive trees and shrubs		Completed 2007-2020
Program	NYCDEP	annually each fall through this program.	NYCDEP	2007-2020
Sugar Maples	CCCWCD	Town of Windham- Batavia Kill: Treated invasive Japanese	ACOE	G 1 4 1
Riparian	GCSWCD,	knotweed and then planted approximately 800 feet of riparian	ACOE	Completed
Buffer Project	NYCDEP	vegetation.	(WRDA)	2008
		Batavia Kill, West Kill, Schoharie Creek, and Manor Kill:		
		Root Production Method (RPM) trees were planted at Big		
		Hollow, Brandywine, and Ashland Connector Reach project		
		sites. A certified herbicide applicator treated Japanese		
		knotweed at Big Hollow, Carr Rd., Schoharie Ave. and Long		
		Rd. project sites. DEP monitored vegetative techniques on a		
		majority of these projects. Other vegetation enhancements		
		included coordination with Greene County Highway, FEMA,		
Vegetation	GCSWCD,	at the County Route 13 culvert project, and a volunteer	GCSWCD,	Completed
Enhancements	NYCDEP	planting in Manor Kill behind the Conesville town hall.	NYCDEP	2008

				1
	GCSWCD Greene County	Town of Lexington- West Kill: Implemented vegetation stabilization methodologies at a site on the West Kill that was previously scheduled for all riprap. Along this site, a short section of Vegetation Reinforced Slope Stabilization (VRSS)		
County Route 6	Highway Dept.	was installed, and trees and shrubs were planted on the upper bank; willows were interplanted with the riprap.	GCSWCD, NYCDEP	Completed 2008
Deming Road Riparian Project	GCSWCD, NYCDEP	On this project, 723 trees and shrubs, along with 120 willow stakes, were installed on three contiguous parcels.	GCSWCD	Completed 2009
McRoberts Property Planting	GCSWCD, NYCDEP	GCSWCD has a 10 year landowner agreement for this property. Riparian Corridor Management Plan is complete. During this project, 50 trees and shrubs and 125 willow stakes were installed.	CSBI	Completed 2009
Manor Kill Grogan Property Planting	GCSWCD, NYCDEP	SCSWCD has a 5 year agreement for this property. Riparian Corridor Management Plan is complete. During this project, 54 trees and 500 sedge plugs were installed.	CSBI	Completed 2009
Kane Property Planting	GCSWCD, NYCDEP	GCSWCD has a 10 year landowner agreement for this property. Riparian Corridor Management Plan is complete. During this project, 116 trees and 250 willow stakes were installed.	CSBI	Completed 2009
Kastanis Property Planting	GCSWCD, NYCDEP	Catskill Streams Buffer Initiative Pilot: Obtained 5- year landowner agreement, completed a riparian corridor management plan and restored approximately 7.1 acres of streamside vegetation along the Batavia Kill, including hosting school groups in the effort and planting about 1,500 trees and shrubs.	CSBI	Completed 2009
Evergreen Planting	GCSWCD, NYCDEP	GCSWCD/NYCDEP worked with the landowner to develop a planting plan and to obtain a landowner agreement for the property. Project is located in the town of Hunter.	CSBI	Completed 2009
Silver Property Planting	GCSWCD, NYCDEP	GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete. GCSWCD removed fence, graded 60 feet of streambank, planted 25 trees and shrubs, and installed 30 willow stakes in May 2010.	CSBI	Completed 2010
Grossman Property Planting	GCSWCD, NYCDEP	GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete. Installed a 50 foot riparian buffer and 198 trees and shrubs were plant along 300 feet in May 2010.	CSBI	Completed 2010
Brunsden Property Planting	GCSWCD, NYCDEP	GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete. Installed 54 herbaceous plugs, 22 willow stakes, 5 shrubs, and 2 trees in August 2010.	CSBI	Completed 2010
Avella Property Planting	GCSWCD, NYCDEP	GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete. Installed 26 trees and shrubs in June 2010.	CSBI	Completed 2010
Rappleyea Property Planting	GCSWCD, NYCDEP	GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete and 150 trees and shrubs were installed in June 2010.	CSBI	Completed 2010
Dodson/McCloskey Property Planting	GCSWCD, NYCDEP	GCSWCD has a 10 year landowner agreement for this property. Riparian Corridor Management Plan is complete and 300 trees, shrubs, and weed mats were installed in June 2010 to create a 100 foot wide riparian buffer along 300 feet of the East Kill. GCSWCD contracted Bevan Forestry to control a patch of Japanese knotweed; Aqua Master was used to inject 25 JKW stems.	CSBI	Completed 2010

		acquient f i i	1	
		SCSWCD has a 5 year landowner agreement for this property.		
		Riparian Corridor Management Plan is complete and 100		
	SCSWCD,	trees, 80 willow stakes/tubes, and 100 sedge plugs were		
Manor Kill Quinn	GCSWCD,	installed in spring 2010. Also, approximately 50-100 JKW		Completed
Property Planting	NYCDEP	plants were removed from the site.	CSBI	2010
		SCSWCD has a 5 year landowner agreement for this property.		
Manor Kill	SCSWCD,	Riparian Corridor Management Plan is complete and 50 trees,		
Brandow	GCSWCD,	100 willow stakes/tubes, and sedge plugs were installed in		Completed
Property Planting	NYCDEP	spring 2010.	CSBI	2010
		SCSWCD has a 5 year landowner agreement for this property.		
		Riparian Corridor Management Plan is complete. 292 trees,		
	SCSWCD	50 willow stakes, and 500 sedge plugs were installed in		
Manor Kill Gentile	GCSWCD	November 2009. 100 additional willow stakes were installed		Completed
Property Planting	NYCDEP	spring 2010.	CSBI	2010
1 Toperty 1 failting	NICDEI	This property is adjacent to Torsiello, where stream channel	СЗБІ	2010
II D	CCCWCD			C1-4-4
Hegner Property	GCSWCD,	was repaired by the town highway department. GCSWCD has	CCDI	Completed
Planting	NYCDEP	a 5 year landowner agreement for this property.	CSBI	2011
1		Flooding, due to Tropical Storm Irene, caused woody debris	1	
		jam on property. Stream channel was repaired by town	1	
		highway department. GCSWCD has a 5 year landowner	1	
Torsiello	GCSWCD,	agreement for this property. CSBI installed 275 trees and		Completed
PropertyPlanting	NYCDEP	shrubs.	CSBI	2011
		GCSWCD has a 5 year landowner agreement for this		
Cervini Property	GCSWCD,	property. Riparian Corridor Management Plan is complete		Completed
Planting	NYCDEP	and 275 trees and shrubs were installed.	CSBI	2011
U		GCSWCD has a 10 year landowner agreement for this		
		property. Riparian Corridor Management Plan is complete.		
Kelly Property	GCSWCD,	Project involved installation of 94 trees and shrubs along 250		Completed
Planting	NYCDEP	feet to create a 25 foot riparian buffer in the spring of 2011.	CSBI	2011
1 failting	NICDEI	GCSWCD has a 5 year landowner agreement for this	СЗБІ	2011
		property. Riparian Corridor Management Plan is complete.		
Cl / l D	CCCWCD	Project involved installation of 793 trees and shrubs with 15		0 1 1
Slutzky Property	GCSWCD,	high school students from Gilboa-Conesville CSD. Planting	CCDI	Completed
Planting	NYCDEP	area was 950 feet long and 50 feet wide.	CSBI	2011
		GCSWCD has a 5 year landowner agreement for this		
		property. Riparian Corridor Management Plan is complete.		
		GCSWCD installed 506 trees and shrubs, 500 willow stakes,		
Rivera Property	GCSWCD,	and 50 lbs. in two areas along the East Kill. Most trees were		Completed
Planting	NYCDEP	lost to post-flood management activities in the fall of 2011.	CSBI	2011
		GCSWCD has a 5 year landowner agreement for this		
		property. Riparian Corridor Management Plan is complete.		
		Installed 432 trees and shrubs with 20 BYC students in a		
Bardfield Property	GCSWCD,	planting area of 700 ft. long and 35 ft. wide. Many of the trees		Completed
Planting	NYCDEP	were lost to post-flood management activities in fall 2011.	CSBI	2011
<u>8</u>		GCSWCD has a 5 year landowner agreement for this		
		property. The Riparian Corridor Management Plan is		
		complete. A subcontractor was hired to grade 300 feet of		
		streambank along the West Kill prior to the planting and then	1	
Cole Property	GCSWCD,	225 trees and shrubs, 200 willow stakes and 300 feet of		Completed
1 2			CCDI	Completed
Planting	NYCDEP	fascines were installed along 350 feet of the right streambank.	CSBI	2012
		Riparian planting project on the Manor Kill in Conesville. A	1	
Manor Kill	SCSWCD,	Riparian Corridor Management Plan has been completed for		Completed
Colangelo Riparian	GCSWCD,	this property. In 2009, 354 trees were planted, 150 willow	CSBI	2012
Planting	NYCDEP	stakes and 500 sedge plugs were installed along 546 feet of	1	2012
Ì		stream. In 2010, 340 additional trees and 200 stakes were		

		installed. In 2012, potted stock was planted along 900 feet of the left streambank.		
		GCSWCD has a 5 year landowner agreement for this property. Riparian Corridor Management Plan is complete and 300 willow stakes were installed along 200 feet of		
Mayo Property Planting	GCSWCD, NYCDEP	streambank, 94 native trees and shrubs were installed, and 0.23 acres of streamside habitat was seeded.	CSBI	Completed 2013
Tranting	NTCDEI	GCSWCD has a 5 year landowner agreement for this	CSDI	2013
Enochty Property Planting	GCSWCD, NYCDEP	property. GCSWCD installed 30 willow stakes and 25 native trees and shrubs along 100 feet of stream in the fall of 2013.	CSBI	Completed 2013
		GCSWCD has a 5 year landowner agreement for this		
D 11 D'	CCCTTCD	property. GCSWCD installed 125 willow stakes and 117		
Donnelly Riparian	GCSWCD,	native trees and shrubs along 250 feet of stream in the fall of	CSBI	Completed 2013
Project	NYCDEP	2013. GCSWCD has a 5 year landowner agreement for this	CSBI	2013
Wilkie Riparian Project	GCSWCD, NYCDEP	property. GCSWCD installed 75 willow stakes and 15 native trees and shrubs along 150 feet of stream in the fall of 2013.	CSBI	Completed 2013
Dodson/McCloskey		GCSWCD re-installed a 100 foot wide riparian buffer along		
Property Planting	GCSWCD,	300 feet of stream including, 250 native trees and shrubs and		Completed
Phase 2	NYCDEP	250 willow stakes in the fall of 2013.	CSBI	2013
Manor Kill	CCCWCD	GCSWCD has a 5 year landowner agreement for this property		C1-4-4
Dahlberg PropertyPlanting	GCSWCD, NYCDEP	and installed 50 native trees and shrubs and willow stakes along 150 feet of stream in 2014.	CSBI	Completed 2014
1 Topertyr failting	NTCDEI	Riparian planting project at multiple locations along	CSDI	2014
		tributaries of the Batavia Kill and the Windham Path.		
		GCSWCD hosted a volunteer planting in 2013, installing		
		1,028 native trees and shrubs along 1,375 feet of stream. 2.41		
		acres were restored at three planting locations. GCSWCD		
		removed a gravel berm 223 ft. long x 10 ft. wide x 4.5 ft. high		
		and relocated 371 cubic yards of berm material outside 100		
Police Anchor		yr. floodplain prior to installing 350 trees to create a riparian buffer. Project area was graded and seeded with riparian mix.		
Camp (Windham		With an additional planting along a tributary that bisects the		
Path) Riparian	GCSWCD,	parcel, 460 native trees and shrubs were installed along 820 ft.		Completed
Project	NYCDEP	of stream. 1.23 acres were restored in 2015.	CSBI	2015
•		Riparian planting project to reestablish a forested riparian		
		buffer 100 feet wide along 1,200 feet of the Batavia Kill was		
		planted in 2009, as a pilot project to restore approximately 7.1		
		acres of streamside vegetation. In 2015, GCSWCD obtained		
		a land use and herbicide permit to reestablish a forested riparian buffer and treat Japanese knotweed. GCSWCD		
		hosted a volunteer planting and installed 1,100 native trees		
Former Kastanis		and shrubs along 1,650 feet of stream, a total of 3.8 acres		
Property Planting	GCSWCD,	were restored. Japanese knotweed will require monitoring		Completed
Phase 2	NYCDEP	and follow-up treatment.	CSBI	2015
		A riparian planting to restore approximately 4,500 square feet		
		of streamside vegetation along a Schoharie Creek Tributary in		
Saenger Droporty	GCSWCD,	Hunter. In 2015, a volunteer planting was hosted at the site; 120 native trees and shrubs and 20 willow stakes were		Completed
Saenger Property Planting	NYCDEP	installed along 137 feet of stream, 0.1 acre was restored.	CSBI	Completed 2015
1 iunung	TUTODLI	Restore approximately 300 linear feet of streamside	CODI	2013
		vegetation along the East Kill. GCSWCD has a 5 year		
		landowner agreement for this property. GCSWCD will install		
Posch Riparian Planting	GCSWCD, NYCDEP	willow stakes along 300 ft. of streambank to reestablish vegetation that washed out in Irene flooding. A riparian	CSBI	Completed 2016

		planting of 300 native trees and shrubs was installed in spring 2016.		
South Street Riparian Planting	GCSWCD, NYCDEP	Riparian plantings were installed to a length totaling approximately 1,000 feet, with buffer widths varying from 45 feet to 100 feet, covering an area of 1.15 acre, along the Batavia Kill in Windham. This volunteer planting project was a 2016 Riverkeeper Sweep event. Staff and volunteers installed 563 native trees and shrubs.	CSBI	Completed 2016
Sawicki Property Grading and	GCSWCD,	Restore approximately 4,500 square feet of streamside vegetation along a portion of the Schoharie Creek in Hunter. GCSWCD obtained a permit from DEC to grade less than 300 ft. of eroding bank. 35 riparian trees and shrubs were planted along with 180 willow stakes, 3 vertical bundles and 22 fascines to establish riparian vegetation along the left bank of	CCDI	Completed
Planting Prattsville Ball	GCSWCD, NYCDEP, Town of	the Schoharie Creek. Riparian planting project to restore approximately 200 linear feet of streamside vegetation along the Batavia Kill just upstream of the confluence with the Schoharie Creek in Prattsville at the Everett Conine Memorial Field. Project is not feasible due to presence of Japanese knotweed. CSBI	CSBI	2016
Field Chase Property Planting	Prattsville GCSWCD, NYCDEP	application form was never received. Riparian planting to restore approximately 200 linear feet of streamside vegetation along a Batavia Kill tributary in Hensonville in Fall 2017. Landowner is not interested in planting despite outreach attempts. CSBI application form was never received.	CSBI	N/A
Freedman Planting	GCSWCD, NYCDEP	Restored 0.03 acre of streamside vegetation along a portion of the Stony Clove in Hunter. Planted 55 riparian trees and shrubs along 45 feet of streambank. Will monitor for Japanese knotweed and treat as needed.	CSBI	Completed 2017
Pesciotta Planting	GCSWCD, NYCDEP	Restored 0.3 acre of streamside vegetation along a portion of the East Kill in East Jewett. Planted 195 riparian trees and shrubs along 193 ft. of streambank.	CSBI	Completed 2017
Simmons Planting	GCSWCD, NYCDEP	Restored 0.2 acre of streamside vegetation along a portion of the West Kill in Lexington. Planted 171 riparian trees and shrubs along 176 feet of streambank.	CSBI	Completed 2017
Drake Planting	GCSWCD, NYCDEP	Restored 0.7 acre of streamside vegetation along a portion of the Schoharie Creek in Lexington. Planted 412 riparian trees and shrubs along 362 feet of streambank.	CSBI	Completed 2017
Rikard Planting	GCSWCD, NYCDEP	Restored 0.26 acre of streamside vegetation along a portion of the Schoharie Creek in Lexington. Planted 120 riparian trees and shrubs along 115 feet of streambank.	CSBI	Completed 2017
Bilash Arbor Day Planting	GCSWCD, NYCDEP, Trout Unlimited	Restored approximately 1.32 acre of streamside vegetation along 570 feet of the Schoharie Creek in Jewett. Plant 600 bare root riparian trees and shrubs for an Arbor Day volunteer planting event.	CSBI	Completed 2017
Japanese Knotweed Treatment	GCSWCD, NYCDEP	Treated Japanese knotweed with herbicides on the Kastanis Stream Restoration Project in 2017.	CSBI	Completed 2017
McWilliams Planting	GCSWCD, NYCDEP	Restored 0.25 acre of streamside vegetation along a portion of the Batavia Kill in Prattsville. Planted 170 riparian trees and shrubs along 210 feet of streambank.	CSBI	Completed 2018

				_
		Restored 0.53 acre of streamside vegetation along a portion of		
	GCSWCD,	the West Kill in West Kill, NY. Provided native seed and soil for riprap inter-planting and planted 40 riparian trees and		Completed
Russ Planting	NYCDEP	shrubs along 575 feet of streambank.	CSBI	2018
		Restored 0.23 acre of streamside vegetation along a portion of		
		the West Kill in West Kill, NY. Provided native seed and soil		
D 44 D1 4'	GCSWCD,	for riprap inter-planting and planted 116 riparian trees and	CCDI	Completed
Potter Planting	NYCDEP	shrubs along 245 feet of streambank. Riparian planting project restored approximately 300 linear	CSBI	2018
		feet of streamside vegetation along the East Kill. The Greene		
		County Highway Department restored the stream channel.		
Benjamin Property	GCSWCD,	GCSWCD installed willow stakes along 300 feet of		Completed
Planting	NYCDEP	streambank.	CSBI	2018
		Riparian planting restored approximately 300 linear feet of streamside vegetation along a Schoharie Creek tributary in		
Grossman Property	GCSWCD,	Hunter. Streambank was graded in 2016. 221 native trees		Completed
Planting	NYCDEP	and shrubs and 6 vertical bundles were installed in fall 2017.	CSBI	2018
		Treated Japanese knotweed with herbicides on the		
Japanese Knotweed	GCSWCD,	Brandywine/Ashland Connector Reach, Kastanis, Holden,		Completed
Treatment	NYCDEP	Conine, and Ashland Town Park in 2018.	CSBI	2018
		Riparian planting to restore 2.39 acres of streamside		
		vegetation along a portion of the Schoharie Creek in Lexington, NY. GCSWCD graded 100 feet of streambank,		
DEP Parcel 5251	GCSWCD,	installed 8 willow clumps, and planted 1,476 native trees and		Completed
Planting	NYCDEP	shrubs along 1,800 feet of streambank.	CSBI	2019
		Riparian planting to restore 0.68 acre of streamside vegetation		
Bilash Phase 2	GCSWCD,	along the Schoharie Creek in Jewett, NY. GCSWCD planted		Completed
Planting	NYCDEP	492 native trees and shrubs along 1,200 feet of streambank.	CSBI	2019
		Riparian planting to restore 0.13 acre of streamside vegetation along the Stony Clove in Hunter, NY. GCSWCD graded the		
DEP Riley		project site and installed three balled and burlapped trees and		
(Meadowbrook	GCSWCD,	planted 67 native trees and shrubs along 100 feet of		Completed
Lane)	NYCDEP	streambank.	CSBI	2019
		Riparian planting to restore 0.74 acre of streamside vegetation		
DeSantis Riparian	GCSWCD, NYCDEP	along the Batavia Kill in Ashland, NY. GCSWCD planted	CSBI	Completed 2019
Buffer Planting	NICDEF	360 native trees and shrubs along 300 feet of streambank. Riparian planting to restore 0.25 acre of streamside vegetation	CSDI	2017
		along the Schoharie Creek in Jewett, NY. GCSWCD		
Sawicki Planting	GCSWCD,	installed 500 willow stakes and planted 94 native trees and		Completed
and Willow Staking	NYCDEP	shrubs along 400 feet of streambank.	CSBI	2019
Japanese Knotweed	GCSWCD,	Treated Japanese knotweed with herbicides on the Kastanis		Completed
Treatment	NYCDEP	project site and the Ashland Town Park in 2019.	CSBI	2019
		Riparian planting to restore 0.1 acre of streamside vegetation		
Mata Dinarian	GCSWCD,	along the East Kill in Hunter, NY. GCSWCD planted 88 native trees and shrubs along 50 feet of streambank in spring		Completed
Matz Riparian Buffer Planting	NYCDEP	2020.	CSBI	Completed 2020
Pepe Invasive	I I CDE	GCSWCD mechanically removed 0.12 acre of invasive	JUDI	2020
Honeysuckle		honeysuckle prior to restoring native habitat along 180 feet of		
Removal &	GCSWCD,	a tributary to the East Kill. GCSWCD planted 85 native trees	GGDI	Completed
Riparian Planting	NYCDEP	and shrubs in fall 2020.	CSBI	2020
CR 78 Culvert		Riparian planting to restore 0.18 acre of streamside vegetation along the East Kill in Jewett, NY. GCSWCD planted 93		
Buffer Planting &	GCSWCD,	native trees and shrubs and installed 250 live willow stakes		Completed
Willow Staking	NYCDEP	along 265 feet of streambank in fall 2020.	CSBI	2020

		Riparian planting to restore 0.84 acre of streamside vegetation		
		along the Batavia Kill in Ashland, NY. GCSWCD planted		
DEP Ashland	GCSWCD,	478 native trees and shrubs along 250 feet of streambank in		Completed
Riparian Planting	NYCDEP	fall 2020.	CSBI	2020
Kiparian Flanting	NICDEI	GCSWCD replanted a prior CSBI project to enhance .25 acre	CSDI	2020
Doblhous Dinonion		of riparian vegetation along the Manor Kill in Conesville, NY. GCSWCD planted 80 native trees and shrubs and		
Dahlberg Riparian	GCSWCD,			C1-4-4
Buffer Planting &	,	installed 350 live willow stakes along 470 feet of streambank	CCDI	Completed
Willow Staking	NYCDEP	in fall 2020.	CSBI	2020
		GCSWCD replanted a prior CSBI project to enhance .4 acre		
D 1 D' '		of riparian vegetation along the East Kill in Jewett, NY.		
Dodson Riparian	CCCHICE	GCSWCD planted 200 native trees and shrubs and installed		G 1 . 1
Buffer Planting &	GCSWCD,	200 live willow stakes along 470 feet of streambank in fall	Capi	Completed
Willow Staking	NYCDEP	2020.	CSBI	2020
		GCSWCD replanted a prior CSBI project to enhance .02 acre		
		of riparian vegetation along the Batavia Kill in Windham,		
Windham Path	GCSWCD,	NY. GCSWCD planted 27 native trees and shrubs along 50		Completed
Replant	NYCDEP	feet of streambank in fall 2020.	CSBI	2020
		Riparian planting to restore 0.75 acre of streamside vegetation		
		along a Batavia Kill tributary in Windham, NY. GCSWCD		
Windham Manor	GCSWCD,	planted 538 native trees and shrubs and installed 100 live		Completed
Riparian Planting	NYCDEP	willow stakes along 850 feet of streambank in fall 2020.	CSBI	2020
		In 2020, GCSWCD made the following improvements to the		
		Plant Material Center: 1. A 10' x 30' storage pad was		
		installed to hold soil and woodchips to help prevent outside		
Plant Material		debris and seeds from getting into the planting media. 2. A	NYCDEP/	
Center	NYCDEP,	small pole barn was built to store equipment and materials in	GCSWCD	Completed
Improvements	GCSWCD	order to improve their longevity.	Contract	2020
•		Treated Japanese knotweed with herbicides on the Kastanis		
Japanese Knotweed	GCSWCD,	project site, the Ashland Town Park, and the Lexington CSBI		Completed
Treatment	NYCDEP	Project site in 2020.	CSBI	2020

OUTREACH, EDUCATION AND TECHNICAL ASSISTANCE TO STREAMSIDE LANDOWNERS					
Action Item	Partners	Description	Funding	Status	
		CSBI developed to educate and assist streamside landowners			
		in order to provide for improved stewardship in riparian			
		areas. Program guidelines, policies, protocols, and other items			
		required to offer a riparian buffer program to watershed			
		landowners were developed. A protocol was developed that			
Riparian Program	GCSWCD,	utilizes stream feature inventory and vegetation mapping to	NYCDEP/	Completed	
Development	NYCDEP	identify potential riparian planting sites.	GCSWCD	2008	
Where					
Infrastructure &		How infrastructure and streams are influenced by each and			
Streams Collide:		what potential strategies exist for prevention and mitigation			
How to Manage	GCSWCD,	of problems where stream instability has impacted	NYCDEP/	Completed	
Both Responsibly	NYCDEP	infrastructure and vice-versa.	GCSWCD	2008	
		CRSR, Inc. conducted a needs assessment, developed a			
		marketing strategy, and developed initial program roll-out			
		with above mentioned educational materials. Streamside			
		Assistance Program was renamed the Catskill Streams Buffer			
Catskill Streams		Initiative (CSBI) based on the assessment. The marketing			
Buffer Initiative		strategy, program slogan, logo, introduction language,			
Education	GCSWCD,	program brochure, and application for funding have all been		Completed	
Materials	NYCDEP	developed.	CSBI	2009	

Conduct	GCSWCD/ NYCDEP/	It was decided by the SWAC E/O subcommittee to focus on surveys on events; that enough watershed surveys have		Completed
Watershed Survey	SWAC	already been done. No larger survey is expected.		2009
Dream Homes & Ditch Nightmares	GCSWCD	A skit involving landowners learning about permit requirements when building their dream home-volunteer role playing by audience NYSDEC, DOS approved course.	NYCDEP/ GCSWCD	Completed 2009
Japanese Knotweed	GCSWCD/	GCSWCD printed 1,000 copies of a revised JKW prevention brochure for distribution to landowners in knotweed prevention areas identified by stream feature inventories. The brochures were mailed to 286 streamside landowners and	NYCDEP/	Completed
Mailing	NYCDEP	distributed to 11 municipal town halls (15 copies each). GCSWCD CSBI sponsored Healthy Buffers, Healthy Streams: A Landowner Workshop in July 2010. The interactive workshop was held at the Spruceton Community Center in West Kill and showed participants the	GCSWCD	2010
Riparian Buffer Workshop	GCSWCD/ NYCDEP	characteristics of healthy vs. degraded buffers and different management practices to maintain healthy buffers.	CSBI	Completed 2010
Mountaintop Mapping	GCSWCD	Workshop participants learned how environmental mapping software can assist local communities in site planning and subdivision reviews.	SMIP	Completed 2011
Riparian Buffer Workshop	GCSWCD, NYCDEP, TU	A workshop was held for streamside landowners to highlight the importance of riparian buffers. The workshop included a demonstration of management practices used to maintain healthy stream buffers.	CSBI	Completed 2015
Guided Walk & Riparian Buffer Discussion	GCSWCD/ NYCDEP	During Schoharie Watershed Month, Greene County Soil & Water Conservation District's Laura Weyeneth led a guided walk at the Windham Path. Participants learned about the significance of riparian buffers, native plants, and healthy aquatic ecosystems. Participants also got a chance to see a newly installed riparian buffer along the Windham Path.	NYCDEP/ GCSWCD	Completed 2016
Streamside Landowner Workshop	GCSWCD, NYCDEP	The GCSWCD provided a Streamside Landowner Workshop at the Mountain Top Library in Tannersville, January 27th, 2018. The workshop was available to individuals who own streamside property in Hunter, Tannersville, Windham, Ashland, Jewett, Lexington, and Prattsville. Attendees learned how to establish and increase the riparian buffer zone on their own property by planting native trees and shrubs. Participants learned about the Catskill Streams Buffer Initiative (CSBI) program.	NYCDEP/ GCSWCD CSBI	Completed 2018
Stream Management Implementation Program Information Session	GCSWCD, NYCDEP	The Greene County Soil & Water Conservation District provided an information session for the Stream Management Implementation Program (SMIP) at the Schoharie Watershed Program office in Tannersville on February 13th, 2018. A brief presentation about the program was provided followed by an informal Q&A for attendees.	NYCDEP/ GCSWCD	Completed 2018
CREP/CSBI Postcard Mailings	GCSWCD/ NYCDEP	GCSWCD solicited landowner interest to the CREP/CSBI pilot program through postcard mailings. Continued mailings are contingent on CREP/CSBI pilot program progress.	NYCDEP/ GCSWCD/ CSBI	Completed 2019
Streamside Landowner Workshop	GCSWCD, NYCDEP	The GCSWCD provided a Streamside Landowner Workshop at the Mountain Top Library in Tannersville, April 13th, 2019. The workshop was available to individuals who own streamside property in Hunter, Tannersville, Windham, Ashland, Jewett, Lexington, and Prattsville. Attendees learned how to establish and increase the riparian buffer zone on their own property by planting native trees and shrubs.	NYCDEP/ GCSWCD/ CSBI	Completed 2019

		Participants learned about the Catskill Streams Buffer Initiative (CSBI) program.		
Riparian Buffer Restoration Area	GCSWCD,	Educational signs were developed for Catskill Stream Buffer Initiative (CSBI) project sites. The signs promote riparian buffers, provide information about the on-going riparian buffer restoration in the area, and provide contact information	NYCDEP/ GCSWCD	Completed
Signage	NYCDEP	for the Schoharie Reservoir watershed CSBI program.	CSBI	2020

STREAM AND RIPARIAN ECOSYSTEM ASSESSMENT AND ENHANCEMENT				
Action Item	Partners	Description	Funding	Status
		NY Natural Heritage Program completed a final report		
		"Inventory, Classification, and Description of Riparian		
	GCSWCD,	Natural Community Reference Types for West Kill		
Catskill Riparian	NYCDEP,	Watershed, New York" and appendix "West Kill Restoration	NYCDEP/	Completed
Reference Study	NYNHP	Guide to Planting."	GCSWCD	2009
		C.T. Male Associates was hired to remap the wetlands on the		
		Ashland and Conine restoration sites to assure ACOE's		
		wetland mitigation requirements were being met. Wetland		
Restoration Project	GCSWCD,	mapping and reporting was completed by C.T. Male	NYCDEP/	Completed
Wetland Mapping	NYCDEP	Associates.	GCSWCD	2009
		Hudsonia sampled Japanese knotweed management plots for		
Japanese		several years. The results of their research are shown in the		
Knotweed	GCSWCD,	final report "Experimental Management of Japanese		
Management	NYCDEP,	Knotweed on the Batavia Kill, Greene County, New York",	NYCDEP/	Completed
Project	Hudsonia	which was submitted to GCSWCD in December 2009.	GCSWCD	2009
		SMPs included a recommendation to characterize the current		
		health of stream ecosystems using food web dynamics, the		
	GCSWCD,	presence or absence of indicator species and primary		
Organize	NYCDEP,	producers, and the status of fish populations, among others.		
Repository of	Habitat &	Under guidance of Habitat/Recreation Subcommittee,		
Stream Ecosystem	Recreation	GCSWCD has organized a master repository which integrated	NYCDEP/	Completed
Data	Subcommittee	existing data and published documents.	GCSWCD	2013
		GCSWCD and NYCDEP worked with USGS and RIT to		
		determine the location of thermal refugia, which are important		
	GCSWCD,	to cold water fish communities during the summer months.		
	NYCDEP,	The study was conducted to inform and guide entities whose		
	Habitat &	activities may impact cold water inputs. In 2012, RIT		
Water Temperature	Recreation	conducted imagery collection flight and submitted report, in	NYCDEP/	
Impacts on	Subcommittee,	2013, USGS analyzed and summarized the data, and in 2014,	GCSWCD,	Completed
Fisheries Study	USGS	USGS submitted report.	USGS	2014
	NYCDEP,	DEC and Partners completed a habitat enhancement project		
	NYSDEC,	for a brook trout fishing area along Hunter Brook in the West		
	GCSWCD,	Kill. DEC previously conducted brook trout studies in the	USFWS,	
	TU, SWAC,	reach. In 2018, GCSWCD conducted the topographic survey	DEC,	Completed
Fisheries Project	USFWS	of the reach. Design and construction were completed in 2019.	SMIP	2019

WATERSHED PROTECTION AND COMMUNITY PLANNING					
Project Title	Partners	Description	Funding	Status	
Implementing					
SEQRA,				Completed	
basics &	GCSWCD,	Participants were provided a basic understanding of the	NYCDEP/	Annually	
determinations	NYCDEP	SEQRA process.	GCSWCD	2008-2010	
Federal & NYS					
Wetland					
Protection &	GCSWCD,		NYCDEP/	Completed	
Regulation	NYCDEP	Presentation of regulations.	GCSWCD	2008	
		Engaged multiple watershed partners and agencies, municipal			
		officials, and departments (highway, planning, and code			
		enforcement) in the strategy's development which focused on			
		landscape sources that contribute to water quality			
		impairments. Some recommendations were identified as			
Schoharie		implementation activities in 2009-11 action plan and			
Watershed	GCSWCD,	Schoharie Watershed Advisory Committee reviewed	NYCDEP/	Completed	
Strategy	NYCDEP	proposals to allocate funding in 2009.	GCSWCD	2008	
		The organizational structure of the Schoharie Watershed			
		Advisory Committee (SWAC) was developed in early 2008.			
		After the kick off meeting in May 2008, the SWAC has met			
	Schoharie	regularly throughout the year, developed program materials to			
	Basin	initiate a stream management plan implementation funding			
Schoharie	Municipalities,	application process, and identified initial projects for			
Watershed	Technical	implementation. Although administrative support for the		Organized	
Advisory	Advisors,	SWAC remains an on-going activity, the effort to establish		May 2008,	
Committee	GCSWCD,	local representation and implementation of the SMP, coupled	NYCDEP/	meet 2-3x per	
(SWAC)	NYCDEP	with technical agency support, has been accomplished.	GCSWCD	year	
		An overview of an alternative approach to site planning,			
Low-Impact	NYCDEP,	design, and building that minimizes landscape impacts and	NYCDEP/	Completed	
Development	GCSWCD	preserves the natural hydrological cycle.	GCSWCD	2009	
		GCSWCD WAP worked with numerous public and private			
		sector partners to develop a comprehensive master plan that			
	NYCDEP,	focuses on recreation, and also includes open space, scenic			
	GCSWCD,	quality and cultural resources. Two implementation			
	WAP,	subcommittees are working on marketing and coordinating			
Mountaintop	Schoharie	projects and outdoor resource improvements that promote			
Recreation Master	Basin	access to, and appreciation of, the mountaintop's natural	NYCDEP/	Completed	
Plan	Municipalities	environment including stream systems.	GCSWCD	2009	
Low Impact	NYCDEP,	,			
Development	GCSWCD,	How improved site planning can achieve multi-objectives for	NYCDEP/	Completed	
Made Local	WAP	Schoharie basin communities.	GCSWCD	2010	
		GCSWCD worked with the Town of Hunter and the Villages			
		of Tannersville and Hunter to undertake a Corridor Study that			
		entailed comprehensive assessment of potential future			
Town of Hunter	NYCDEP,	development along the State Route 23A corridor. The study	1		
Corridor Regional	GCSWCD,	was in effort to evaluate foreseeable development and	NYCDEP/	Completed	
Planning Study	WAP	environmental mitigation associated with future development.	GCSWCD	2010	
State and City	GCSWCD,	Workshop participants were informed about the permit	NIVODER!	G 1 . 1	
Stormwater	NYCDEP,	requirements of NYSDEC, NYCDEP and what triggers a	NYCDEP/	Completed	
Regulations	NYSDEC	permit.	GCSWCD	2011	

				I
		GCSWCD's WAP, Kendall Stormwater Services, and Morris		
		Associates worked with Ashland, Jewett, Lexington,		
		Windham, Hunter, and Tannersville. For each community,		
		there was a comprehensive code review against model		
		development principles, helped identify which principles to		
		address for local government, developed LID manual for		
Mountaintop Better		communities to use in site planning, and to share with		
Site Design Plan		landowners and developers. Also, an education packet, for	SMIP,	Completed
Workshops	GCSWCD	easier reference, was developed.	LTAP	2011-2012
Town of Hunter		Conducted a detailed review of Hunter's land use regulations.		
Land Use	Town of	Hunter adopted revisions, new regulations &/or guidelines		
Regulation Review	Hunter,	that promote low impact design, climate smart and smart		
& Development	GCSWCD,	growth principles. A land use committee was formed to guide		Completed
Guidelines	NYCDEP	the process.	SMIP	2016
Hunter Wetlands				
Leachate	Mountaintop			
Treatment System	Towns,	Designed a remediation implementation project to address the		
Remediation -	GCSWCD,	problems with the Hunter Landfill Wetland Treatment System		Completed
Engineering	NYCDEP	effluent discharges.	SMIP	2018
		This project involved the design of rain gardens that will		
		capture and slow runoff and enable water filtration. The rain		
		gardens are part of a larger project to build a year round		
		Education Center at the Mountain Top Arboretum, a public		
Mountain Top		garden that provides recreational and educational		
Arboretum		opportunities for residents and visitors to the Catskill		
Education Center	GCSWCD,	Mountains. Design of the rain garden was completed in 2018,		
Rain Garden	NYCDEP,	on-site design in-put continued during project implementation		Completed
Design	MTA	in 2018-2019.	SMIP	2019
_		This project involved installation of the rain gardens		
		associated with the new MTA Education Center. The rain		
		gardens will capture and slow runoff and enable water		
		filtration from the existing roads, the new parking area and the		
Mountain Top		Education Center itself. Native plants were planted in rain		
Arboretum		gardens and create habitat for wildlife while also providing an		
Education Center	GCSWCD,	educational opportunity; staff and volunteers will teach		
Rain Garden	NYCDEP,	visitors about water runoff, water quality, planting techniques		Completed
Implementation	MTA	for a rain garden and the importance of the watershed.	SMIP	2019

ENHANCING PUBLIC ACCESS TO STREAMS					
Action Item	Partners	Description	Funding	Status	
		GCSWCD worked with the Town of Prattsville on a master			
		plan for redevelopment of Conine Field. Key conservation			
		issues included fishing access point, knotweed management, a			
		riparian buffer planting and a conservation easement on			
		sections of the property adjoining the Batavia Kill and			
	GCSWCD,	Schoharie Creek and a stormwater pollution prevention plan			
Prattsville Conine	NYCDEP,	retrofitting the site to meet current standards for new	NYCDEP/	Completed	
Park	Prattsville	construction.	GCSWCD	2008	
		GCSWCD assisted the Town of Windham with the			
	GCSWCD,	development of a public access area on a NYCDEP owned	NYCDEP/		
Windham	NYCDEP,	parcel in the hamlet of Windham. The GCSWCD completed a	GCSWCD,	Completed	
Creamery Pond	Windham	site design, Stormwater Pollution Prevention Plan and other	Windham	2008	

		documents. The design included the construction of parking area and athletic fields and was left to the town to complete.		
Town of Windham (Police Anchor Camp)	GCSWCD, NYCDEP, Windham	GCSWCD provided conceptual plans to the Town of Windham to assist with assessment and planning for public use of a 65 acre parcel located in the Batavia Kill watershed.	NYCDEP/ GCSWCD, Windham	Completed 2010
Ashland Fishing Access Enhancements	GCSWCD, NYCDEP, Ashland	GCSWCD and NYCDEP completed a parking area and access to an existing public fishing area on the Batavia Kill at the Ashland Connector Reach Restoration Project. The access includes an information kiosk.	NYCDEP/ GCSWCD	Completed 2010
Promote Increased Recreational Use of Watershed Streams	GCSWCD, NYCDEP, Recreation & Habitat Subcommittee	All stream management plans recommend enhancing public access of the streams for fishing. Along many of the streams within the Schoharie Watershed, there are public fishing access points; existing access locations have been mapped. Through the Recreation and Habitat category, multiple stream access parks have been and will continue to be supported by SWAC.	NYCDEP/ GCSWCD	Completed 2010
Prattsville Stream Access Parking	GCSWCD, NYCDEP, Prattsville, SWAC	The Town of Prattsville was approved for SMIP funding October 2009; this grant was closed in August 2012, due to site constraints and significant flood damage throughout Prattsville during Hurricane Irene in 2011.		Completed 2012
Windham Path	GCSWCD, NYCDEP, WARF, Windham	GCSWCD and NYCDEP assisted Town of Windham and the Windham Area Recreation Foundation with installation of a public, non-motorized, multi-use trail along a 65 acre parcel located along the Batavia Kill. SWAC/SMIP funds were used to cover the cost of materials for a boardwalk and footbridges. The path is used almost daily by local residents and visitors of Windham.	NYCDEP/ GCSWCD, WARF	Completed 2013
Schoharie Creek Park (Town of	NYCDEP, GCSWCD, Town of	The GCSWCD assisted the Town of Lexington with the development of a small "pocket park" located on the Schoharie Creek. The project included the removal of a derelict house (completed 2007), cleaning up weedy growth, enhancement of riparian vegetation, and installation of low impact improvements such as demonstrative plantings, informational signage and stream access. Plantings were installed in 2010 and repaired in 2012 following flood damages. In 2012, split rail fencing was installed. In 2015,	CAMP	Completed
Lexington) Windham Path Phase 2	NYCDEP, GCSWCD, WAP, WARF, SWAC	signage was installed. The Windham Area Recreation Foundation is working on expanding the Windham Path, a 1.3 mile non-motorized, multi-use recreational trail in the Town of Windham near the Batavia Kill. Phase 2 extends the trail over the Batavia Kill on a pedestrian bridge to the Route 296/South Street business district. A second SMIP grant was awarded in 2014 for two small wooden footbridges that cross wet areas along the path's phase 2 extension, a trailhead sign and kiosk on Route 296.	SMIP, Windham, NYCDEP/ GCSWCD, WARF	Completed 2015
Conesville Town Park Walking Path	NYCDEP, GCSWCD, SCSWCD NYCDEP,	The SCSWCD, GCSWCD, NYCDEP and the Town of Conesville worked together to rehabilitate the existing walking path in the Conesville Town Park. A SMIP grant was awarded in 2014; the design, permitting and construction of the path were combined with the Manor Kill Stream Restoration Project.	SMIP	Completed 2015
Conine Fishing Access	GCSWCD, Town of Prattsville, SWAC	The project is a sub-component of the overall redevelopment and expansion of Conine Field Recreation Complex in Prattsville. This part of the project focused on repairing and improving the fishing area and canoe launch at Conine Field.	SMIP	Completed 2016

Ashland Town Park	Ashland, GCSWCD, NYCDEP	The project supported efforts to provide public access to the Batavia Kill and included signage, seeding, and riparian plantings. Signage was installed in 2016. Riparian plantings were installed in spring 2017.	SMIP	Completed 2017
Lexington Riverfront Access	NYCDEP, GCSWCD, Town of Lexington, SWAC, FEMA,	The Town of Lexington expanded the Schoharie Creek Park (Lexington Pocket Park) by purchasing two additional parcels, along County Route 13a, through the FEMA Property Acquisition Program. Components of the project included a low impact path, a shade structure, and signage/informational kiosk. The Schoharie Watershed Advisory Committee approved funding the riverfront access park contingent upon FEMA, and other regulatory, approvals for development of		Completed
Park	NYDOS	park-like amenities on the buyout parcels. The Windham Multi-Use Trails are for non-motorized uses	SMIP	2018
		intended to provide public access to the Batavia Kill, provide connectivity between residential, business and activity centers		
Windham Multi-	NYCDEP,	in the Town of Windham. The proposed project to construct a		
Use Trail System –	GCSWCD,	streamside connector trail along the Batavia Kill in the hamlet		Withdrawn
Public Access	WARF	of Maplecrest was no longer feasible and was withdrawn.	SMIP	2019