

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Tioga County

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) <small>*add new 2022 progress above the existing 2021 progress. Date each entry</small>
							Technical	Financial	Technical	Financial	
Priority Initiative 1: Agriculture											
1.1	Nutrient Management Planning	Develop Recommendations and nutrient management planning including soil samples, manure analysis, and agronomy assistance. BMPS's include Nutrient Management Core N, Core P, Placement, Timing, and Rate <u>25 total sites per year</u>	PSU Extension, TCCD, Consultant	Agricultural lands and Hunting Clubs	2022- Creation of program with evaluation in 2025.	Funding for initial 3 years of program, landowner participation, and understanding of data importance.	Local agency educational materials and sampling kits Consultant assistance	Sampling Kits (\$12)	Contracted Source for NMP analysis/recommendations List of recommended contacts for analysis completion	Dedicated funding to assist in management and development of this program. \$60,000 for 1.1 – 1.1 a	2022- This program has not yet been completed but is still of high interest.
1.1a	Soil Sampling Program	Develop Soil Sample Collection Program and Analysis – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties Targeting Cowanesque watershed	2022-2025		Education Materials Soil Sampling			\$30,000 per year	2022- An EE Grant was received to implement soil sampling including organic matter testing that will be utilized in 2023. This program has also been included in the Grant Funding application for NFWF Small Watershed Grant for the Cowanesque Watershed which has been awarded. It is planned to expand the program after grant rollout.
	Manure Testing Program	Develop Manure Testing Program and Analysis – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties	2022-2025		Education Materials Manure testing Labs			\$10,000 per year	2022- Manure testing was included within the NFWF Small Watershed Grant for the Cowanesque and this program will be started at that location. It is planned to expand this program following grant completion.

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				Targeting Cowanesque watershed							
	Agronomy Assistance/Analysis Program	Develop Agronomic Analysis Program – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties. Targeting Cowanesque watershed.	2022-2025		Education Materials, Analysis		Analysis	\$20,000 per year	2022- An agronomy assistance program has not been started although there is hope to include this program during the expansion of the soil sampling and manure testing program.
1.2*	Reporting and Verification of Existing BMP's	Collect data and verify existing BMP's on operations. Create and deploy Farmer Survey to collect private landowner data on existing BMP's. <u>Report and verify 50 operations per year</u>	DEP, TCCD, NRCS	County	2021-2025	Time Capacity, Data Entry, Voluntarily Release of Records from Farmer (DEP issues, public knowledge), Confidentiality agreements, producer participation and resistance	BMP's and plans that were funding through agencies and grants are already known	N/A	Dedicated staff (1-2) or contracted staff to complete entry and inspections	Dedicated funding to this position \$80,000 for position funding per year.	2022- Reporting and verification have been started by a third party and is underway. A non-intrusive method is being utilized for landowner privacy.
1.3	Existing BMP Maintenance Program	Assist producers with maintenance of existing BMPs to keep them functioning, through cost-share labor or funding. <u>5-10 farms a year</u>	TCCD, NRCS, PSU Extension	Agricultural Producers	2023-ongoing	Funding and Producer participation, Identifying BMPS that need maintenance	Technical assistance	Farmer maintenance	BMP maintenance and labor	Funding source to complete maintenance on existing BMP's \$150,000 per year	2022- Existing BMPs that require maintenance or upgrades are being recorded will be contacted when funding becomes available.
1.4	Riparian Buffer and Stream Fencing	Implement Stream fencing and riparian buffer on crop and pasture lands.	TCCD, NRCS, PSU Extension	Streams on Agricultural Properties	2021-ongoing	Funding and Producer participation, implementation of maintenance	Technical documents, design, and layout	Plantings and materials	Labor to plant/install	Funding Source, Stream fencing costs	2022- Stream fencing and riparian buffers have been planned on agricultural properties and are still underway.

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		<u>Implement or verify 750 acres per year</u>							Stream bank fencing \$4 per linear foot \$ 120 Tree cost, per tree, \$500,000 per year		
1.5	Operation Transition Planning Assistance	Assist farmers that are transitioning operation types with the necessary BMP and management practices Number of operations are dependent on current farming practices. <u>5-10 farms per year</u>	TCCD, NRCS, PSU Extension, PFB	Agricultural operations	2023-2025	Funding and Producer Participation, Identifying who is transitioning	Technical farming assistance	N/A	Education, Planning, operational management assistance, plan updates	Cost associated with operation transition and planning \$10,000 per operation	2022- This action has not been started but is still of high interest. Assistance is being offered to farmers that contact the district, but a program has not been implemented.
1.6	Cost Share Liming Program	Provide a cost sharing program and education to increase liming practices and increase overall pH on <u>5000 acres</u> of farmland per year. Soil testing analysis to determine eligibility.	TCCD, NRCS, PSU Extension	Agricultural Community and Hunting Clubs	2022-ongoing	Funding, Adoptees, implementation of education programs	Soil Sampling Kit (\$15 per sample kit)	Soil Sampling Kits	Liming education and application assistance	Cost for lime and application \$55,000 per year	2022- This program will be included in the NFWF Cowanesque Small Watershed Grant award and there is hope to expand this program to the rest of the county after initial roll out.

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1.7	Agricultural Lands Flooding Protection	Protect Agricultural lands from extensive erosion from flooding by protecting streams banks and floodplain connection <u>Complete projects on 100 acres of agricultural floodplain lands per year</u>	TCCD, NRCS, PSU Extension, SCC, TU	Agricultural lands with historical flooding issues	2022-2025	Funding, Landowner resistance	Guidance and Planning	Floodway protection	Identification of flood protection areas, protecting areas	Funding for BMP implementation and floodway protection \$150,000 per year	2022- Discussion and promotion of the importance of stream bank and floodplain protection have occurred with landowners who expressed concerns and a few projects have been implemented.
1.7a	Floodplain Restoration and Stream Protection	Implement Floodplain restoration and stream bank stabilization and protection projects for agricultural areas. <u>1500 linear feet of stream per year</u>	TCCD, NRCS, PSU Extension, TU	Agricultural lands	2022-2025	Funding and Producer participation	Technical guidance documents, Existing Restoration projects	Cost of funding to complete projects	Planning assistance, identification of project areas, restoration and protection labor	Cost associated with restoration and protection activities. \$500,000 per year	2022- Floodplain restoration and stream protection projects are being planned and constructed within agricultural areas to promote stabilization.
1.8	Farm Operational Improvements	Overall Farm operational BMP implementation program to improve runoff, erosion, functionality, and land preservation. <u>5-10 operations per year</u>	TCCD, NRCS, PSU Extension, SCC	County	2022-2025	Funding, Permitting	Education, Technical assistance, and documents	Cost of operational improvements	Planning, permitting	Cost of operational improvements and BMP implementation. \$300,000 per year	2022- Farm operational improvements have been planned and completed at four farm locations. Additional projects have been applied for funding through CAP Implementation funds for 2023.
1.8a	Field Road Access	Upgrade and Maintain access to fields for better	TCCD, NRCS, PSU	County	2022-2025	Cost of access improvement and	Education and Technical assistance	Field road improvements	Field Road upgrade plans and permits	Cost of field road upgrades and permits	2022- Field road access improvements have been planned and are currently underway for completion.

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	Improvement	access to encourage opportunities to maintain fields and spread manure. <u>10 miles of field roads per year</u>	Extension, SCC			landowner participation				\$150,000 per year	
1.8b	Heavy use area BMP implementation.	Implement heavy use area BMP's to protect erosion and runoff. <u>Increase current workload by 5 projects per year</u>	TCCD, NRCS, PSU Extension, SCC	County	2022-2025	Cost of BMP implementation and landowner participation	Education and technical assistance	BMP implementation	Heavy Use area plans and permits	Cost of heavy use BMP implementation \$800,000	2022- Heavy use area and manure storage projects have been implemented this summer and are planned to receive fencing this fall.
1.9	Partnership-Potter/Tioga County Cowanesque Watershed Agricultural BMP Upgrades	Implement Agricultural BMP's across Tioga and Potter County to assist the Cowanesque Watershed as a whole. <u>10 agricultural projects within the watershed a year</u>	TCCD, PCCD	Tioga and Potter County, Cowanesque Watershed	2023-2025	Funding and farmer participation within the watershed	Engineering assistance, Existing BMP programs	Cost sharing programs	Planning, outreach, and Implementation	Cost associated with design permitting, and construction of BMP's and programs \$250,000 total per year (\$125,000 per county)	2022- Grant funding has been applied to by Tioga and Potter County through the NFWF Small Watershed Grant to secure funding to complete this action. The grant award was received, and the project is now moving forward.