

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Bradford 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) *add new 2022 progress above the existing 2021 progress. Date each entry
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Priority Initiative 1: Agriculture											
1.1	Implement Nutrient Management Analysis Program to Agricultural Landowners	Create Program for farmers to apply for soil sampling, manure analysis, and agronomics assistance to allow technical assistance and recommendations for nutrient management implementation based on sampling/analysis. Approximately <u>3000 acres</u> or more depending on funding	PSU Extension, BCCD, Consultant	Agricultural and Hunting properties Headwaters Towanda Creek, South Branch Sugar Creek, Sattlerlee Creek, and Laning Creek Watersheds	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 (\$15 for Soil and \$40 for Manure)	Contracted Source for NMP analysis/recommendations List of recommended contacts for analysis completion.	Dedicated funding to assist in management and development of this program.	2022- Program establishment and funding options have been under discussion. Funding has been applied to through the 2023 CAP implementation funds to complete this effort.
1.1a	Soil Sampling Program	Develop Soil Sample Collection Program and Analysis – <u>25 sites</u> annually, Approximately 10 fields per farm	PSU Extension, BCCD, Consultant Target Hunting Clubs	Agricultural and Hunting properties Lanning Creek, Hammond Creek, Bailey Creek, and Gaffers Creek	2022-2025		Education Materials Soil Sampling				2022- Program establishment and funding options have been under discussion. Funding has been applied to through the 2023 CAP implementation funds to complete this effort. This program will include purchasing soil sampling equipment for landowner rental moving forward.

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	Manure Testing Program	Develop Manure Testing Program and Analysis – <u>25 sites</u> annually	PSU Extension, BCCD, Consultant	Agricultural and Hunting properties Headwaters Towanda Creek, South Branch Sugar Creek, Sattlerlee Creek, and Laning Creek Watersheds	2022-2025		Education Materials Manure testing Labs				2022- A program specific to manure testing has not been established although funds for manure testing will be included in various projects outlined within the 2023 CAP Implementation grant application.
	Agronomy Assistance/Analysis Program	Develop Agronomic Analysis Program – <u>25 sites</u> annually	PSU Extension, BCCD, Consultant	Agricultural and Hunting properties. Headwaters Towanda Creek, South Branch Sugar Creek, Sattlerlee Creek, and Laning Creek Watersheds	2022-2025		Education Materials, Analysis		Analysis		2022- An agronomy assistance program has not been established although is still important to complete. This project will be prioritized after soil and manure sampling programs are rolled out.
1.2 *	Increase Reporting and Verification of Existing BMP's	Collect data through use of landowner reporting forms and verify existing BMP's on Agricultural Operations.	DEP, BCCD, NRCS, PFB	County	2021-ongoing	Time Capacity, Data Entry, Release of Records, producer participation and resistance	BMP's and plans that were funded through agencies and grants are already known	Agency verification	One dedicated staff or contracted staff to complete entry and inspections.	Dedicated funding to this position,	2022- BMP reporting and verification is underway and being completed on schedule.

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		Report and Verify <u>50 farms a year</u> .									
1.2a	Create Farmer Survey	Create and deploy Farmer Survey to collect private landowner data on existing BMPs <u>100</u> Completed surveys a year	DEP, BCCD, NRCS, PFB	County	2021-ongoing	Time Capacity, Data Entry, Release of Records, producer participation and resistance	BMPs and plans that were funded through agencies and grants are already known	Agency verification	Refer to 1.2	Refer to 1.2	2022- The farmer survey has been under discussion but has not been developed. This farmer survey roll-out may occur following BMP verification and reporting to locate and verify additional BMPs.
1.3	Existing BMP Maintenance Program	Assist producers with maintenance of existing BMP to keep them functioning, through cost-share labor or funding. Approx. <u>10 farms per year</u> (projects size will determine if more or less operations can be completed) Completing maintenance on riparian buffers, fencing, rain gutters, heavy use areas, manure storages, etc	BCCD, NRCS, PSU Extension	Agricultural Producers	2023-ongoing	Funding and Producer participation, Identifying BMPS that need maintenance	Technical assistance	Funding Source that allows for the maintenance of existing BMP's	Consultants, Engineers	Grant funding	2022- Existing BMPs that require maintenance and upgrades are being noted while completing BMP verification as well as from landowners contacting the district directly and are being assisted as funding becomes available. The rollout of the farmer survey will allow for more maintenance and upgrade project needs to be noted and addressed in the future. Funding to implement identified maintenance needs has been applied for through 2023 CAP Implementation funding.
1.4*	Riparian Buffer and	Implement Stream fencing and riparian buffer on	BCCD, NRCS, PSU Extension	Streams of Agricultural Properties	2021-ongoing	Funding and Producer participation,	NRCS, PSU Extension, Consultants, SCC	N/A	K-10 Labor to plant/install	Stream fencing costs, Trees if not available,	2022- Riparian Buffer and Stream Fencing projects are being planned and implemented on agricultural properties.

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	Stream Fencing	crop and pasture lands. <u>7880 Acres</u> of new or verified existing		Target Hunting and Fishing clubs		Importance of maintenance				planting and maintenance	Multiple stream fencing projects were sent for bids and will be installed by the spring.
1.5	Soil Health	Promote Soil Health by increasing No Till and Cover Cropping Increase No Till by <u>1,250 acres</u> per year and Cover Cropping by <u>3,000 acres</u>	BCCD, NRCS	Agricultural Landowners operations Seeley Creek, North and South Branch Sugar Creek, Head Waters of Tioga River, Headwaters Towanda Creek, Laning Creek, and Black Creek-little Loyalsock Creek Watersheds	2021-2025	Producer Participation and Resistance. Education on overall management change importance, equipment availability	Cases Studies, Educational Materials, Seminars	Seed Costs	Outreach support, event development, Deliverables through existing publications	Dedicated funding to this position,	2022- No-till and cover cropping is being promoted through the education and expanded use of no-till rental programs. Funding was received to purchase a new No-Till Drill this year which will allow for increased equipment use and promote smaller operations to utilize the practice. Drill purchase is currently underway. Approximately 400 acres of cover crops have been installed this year.
1.6	Equipment Rental and Availability	Provide equipment rental to farmers to encourage more BMP implementation on small operations and reduce nutrients being applied incorrectly	BCCD	Agricultural Landowners operations	2021-2025	Logistics and maintenance	No-Till Equipment	Funds to purchase and maintain equipment	Rental Agreement Delivery of equipment Contracting a delivery service for equipment Contracting a custom farming operator to assist in equipment usage	No Till Drill - \$30,000.00 Lime Spreader - \$10,000.00 Manure Injection Equipment - \$150,000.00 Manure Spreader - \$10,000.00	2022- Received funding to purchase another No-Till Drill to increase implementation and allow smaller farms to utilize the practice. Prices have been received for drill purchase and is being completed this year. Overall equipment rental programs are still underway and being implemented.

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1.7 *	Barnyard, Heavy Use Management, and Manure Storage	<p>Implement BMP's on farms where the most nutrient concentration occurs (heavy use) and reduce the travel of nutrients into streams and construct roofed manure stacking pads to reduce winter spreading</p> <p>BMP's include Barnyards, manure storage, buffer strips, rain gutters, etc.</p> <p>Increase number of total projects by <u>5 per year</u> on top of current county and NRCS workload. Project number could increase if smaller projects are obtained. Potentially 10-12 additional projects</p>	BCCD, NRCS, SCC,	County Seeley Creek, North and South Branch Sugar Creek, Head Waters of Tioga River, Headwaters Towanda Creek, Laning Creek, and Black Creek-Little Loyalsock Creek Watersheds	2021-2025	Project match on larger projects, Prevailing wage, increased wait times for funding and farmer resistance	Engineering and design support		Engineering, design, and permitting support	\$1,000,000.00 per year to increase overall project numbers	<p>2022- Planning and discussions regarding heavy use area management are occurring and ongoing. Barnyard heavy use areas and manure storages have been proposed projects for implementation and some are on hold due to the increase in prices for construction and the landowners match requirements increasing.</p> <p>One project was approved through 2022 CAP Implementation Funds.</p>
1.8	Operation Transition and Land	Assist farmers that are transitioning operation types with the necessary	BCCD, NRCS, PSU Extension	County	2022-2025	Outreach to Landowners, Potential for Long Term Contracts.	Planning Documents, Education	Plantings, and seed for land retirement plantings	Staff to complete recommendations	Funds for Plan Writers and new BMP being implemented, Plan Revisions	2022- Operational transition and land retirement assistance has been provided to those who contact the district, but a program has not been developed.

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	Retirement Assistance	BMP and management practices and consult individuals that are removing lands from production. Provide assistance with reforestation, recreational management, CREP and Wildlife habitat improvements <u>10 farms per year</u>				Maintenance for proposed BMP's					Operation Transition has been a large topic of discussion to get landowners thinking about the future and creating a plan. This program is of high interest although funding will need aligned to offer education. An EE grant is planned to be applied for to offer this program.