	Phase 3 \	Vatershed Imple	mentation P	lan (WIP) Pla	nning and F	Progress Template									
		Green - action ha	s been complete	ed or is moving f	orward as plan	ned <u>Yellow</u> - action	has encountere	d minor obsta	cles <u>Red</u> - a	ction has not	been taken or	has encountere	d a serious bar	rier	
Acti on #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resoui	rces <u>Needed</u>		Review Checklist Comments
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
Prio	rity Initiative	2 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 3000 acres 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	NRCS, PSU Extension, BCCD, Private consultant s BC Trophy Deer and Bear Club, Leroy Sportsman' s Association , Towanda American Legion, and Ridgebury Sportsman' s Club	Sampling Kits (\$15 for Soil and \$40 for Manure)	Private Landowner	Contracted Source for NMP analysis/re commenda tions List of recommen ded contacts for analysis completion .	Private Consultant willing to complete testing and recommenda tions for landowners in the county.	Dedicated funding to assist in managemen t and developmen t of this program.	Grants or State Agency funding NRCS Conservation Technical Assistance Program Target Local Hunting and Fishing Club members who own agricultural land \$60,000 total per year for 1.1 - 1.1 a	
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	NRCS, BCCD, PSU Ext, Penn State analytical lab BC Trophy Deer and Bear Club, Leroy Sportsman' s						Growing Greener Education Grant Target Local Hunting and Fishing Club members who own agricultural land \$30,000.00 per year	

							Association , Towanda American Legion, and Ridgebury Sportsman' s Club						
Manure Testing Program	Develop Manure Testing Program and Analysis – <u>25</u> sites 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	PSU Ext, Private labs, Penn State analytical lab BC Trophy Deer and Bear Club, Leroy Sportsman's Association , Towanda American Legion, and Ridgebury Sportsman's S Club						Growing Greener Education Grant Target Local Hunting and Fishing Club members who own agricultural land \$10,000.00 per year
Agronomy Assistance/An alysis Program	Develop Agronomic Analysis Program – 25 sites 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	PSU Ext, Private consultant			Analysis	Private Consultant		Growing Greener Education Grant \$20,000.00 per year
Increase Reporting and Verification of Existing BMP's	Collect data through use of landowner reporting forms and verify existing BMP's on	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	SCC, PSU Extension, NRCS, BCCD, DEP	Agency verification	Staff Time	One dedicated staff or contracted staff to complete	Staffing increase, BCCD, DEP or consultant	Dedicated funding to this position,	\$80,000.00 per year.

Agricultural Operations. Report and Verify 50 farms a year. Create Farmer Survey Farmer Survey to Agricultural Operations. Report and Verify 50 farms a year. DEP, BCCD, Ongoing Entry, Release of Plans that Extension, Verification entry and inspections . Agency Staff Time Refer to Refer to 1.2 Refer to 1.2 Refer to 1.2 Refer to 1.2	
Report and Verify 50 farms a year. 1.2a Create Farmer Create and deploy DEP, BCCD, County 2021- Time Capacity, Data BMPs and SCC, PSU Agency Staff Time Refer to Refer to 1.2	
50 farms a year. 1.2a Create Farmer Create and deploy DEP, BCCD, County 2021- Time Capacity, Data BMPs and SCC, PSU Agency Staff Time Refer to Refer to 1.2 Refer to 1.2	
50 farms a year. 1.2a Create Farmer Create and deploy DEP, BCCD, County 2021- Time Capacity, Data BMPs and SCC, PSU Agency Staff Time Refer to Refer to 1.2 Refer to 1.2	
1.2a Create Farmer Create and deploy DEP, BCCD, County 2021- Time Capacity, Data BMPs and SCC, PSU Agency Staff Time Refer to 1.2 Refer to 1.2 Refer to 1.2	
Survey Farmer Survey to NRCS, PFB ongoing Entry, Release of plans that Extension, verification 1.2	
collect private Records, producer were funded NRCS,	
landowner data on participation and through BCCD, DEP	
existing BMPs resistance agencies and	
grants are	
100 Completed already	
surveys a year known	
Assist producers BCCD, NRCS, Agricultural 2023- Funding and Technical NRCS, PSU Funding Private Consultant Contracted, Grant State or Federal	
with maintenance PSU Producers ongoing Producer assistance Extension, Source that Landowner s, NRCS, PACD funding Funds.	
of existing BMP to Extension participation, Consultant allows for funds Engineers	
keep them South of the Grant program Grant program	
functioning, that need PACD maintenan that provides	
through cost-share maintenance ce of maintenance	
labor or funding. existing funds	
BMP's	
Approx. 10 farms	
ner year (projects	
Existing BMP size will determine	
1.3 Maintenance if more or less	
Program operations can be	
completed)	
Completing	
maintenance on	
riparian buffers,	
fencing, rain	
gutters, heavy use	
areas, manure	
storages, etc	
Implement Stream BCCD, NRCS, Streams of 2021- Funding and NRCS, PSU BC Trophy N/A Plantings K-10 Volunteers, Stream State and	
fencing and PSU Agricultural ongoing Producer Extension, Deer and Labor to community fencing Federal Funding	
Ruffer and riparian buffer on Extension Properties participation, Consultants, Bear Club, plant/instal service, costs, Trees	Riparian Buffer
1.4 * Crop and pasture Crop	ind Stream
Fencing lands. Target maintenance Sportsman' available, Forest Buffer Fe	encing
Hunting and Grants	
Fishing clubs Association	

	7880 Acres of new						, Towanda					maintenanc	DCED
	or verified existing						American					е	Watershed
							Legion, and						Restoration and
							Ridgebury						Protection
							Sportsman'						Program WRPP
							s Club						
													Growing
													Greener
													\$130.00 a tree
													for tree planting
													guarantee and
													maintenance for 1 year from
													landscapers
													(\$250,000.00 a
													year for
													, maintenance
													and planting
													assistance)
													Fencing is \$4.00
													a Linear Foot
													(\$150,000.00 a
													year for 1000
													acres)
	Dromata Cail	DCCD NDCC	Agricultural	2021 2025	Producer	Casas	NDCC	Cood Costs	NDCC	Outroach	Ctoffing	Dadisated	DEAD DED
	Promote Soil Health by	BCCD, NRCS	Agricultural Landowners	2021-2025	Participation and	Cases Studies,	NRCS, BCCD, PSU	Seed Costs	NRCS	Outreach support,	Staffing Increase 0.5	Dedicated funding to	REAP, DEP, NRCS,
	increasing No Till		operations		Resistance.	Educational	Extension			event	FTE, Cost of	this	County Funds
	and Cover		operations				Execusion			developme		position,	Soundy Farings
	Cropping		Seeley Creek,		management	Seminars				nt,		,	\$40,000.00 for
			North and		change importance,					Deliverable			staffing per
	Increase No Till by		South Branch		equipment					s through			year.
	<u>1,250 acres</u> per		Sugar Creek,		availability					existing			
1.5 Soil Health	year and Cover		Head Waters							publication			Cost of Seeds -
2.3 Son ricatin	Cropping by 3,000		of Tioga							S			\$50,000.00 per
	<u>acres</u>		River,										year
			Headwaters										
			Towanda										
			Creek, Laning										
			Creek, and Black Creek-										
			little										
			Loyalsock										
			_0, a1300K										

				Creek											
				Watersheds											
				watersneus											
		Provide	BCCD	Agricultural	2021-2025	Logistics and	No-Till	BCCD	Funds to	County	Rental	BCCD Staff	No Till Drill -	REAP, DEP,	
		equipment rental	БССБ	Landowners	2021 2025	maintenance	Equipment	ВССВ	purchase	Funds	Agreement	Beeb Stair	\$30,000.00	NRCS, EQUIP,	
		to farmers to		operations		manifemanie	Equipment		and	Tarias	, greement		\$30,000.00	State Funds	
		encourage more		operations					maintain				Lime	State Farias	
		BMP							equipment		Delivery of		Spreader -		
		implementation							equipment		equipment		\$10,000.00		
		on small									equipilient		\$10,000.00		
		operations and									Contractin		Manure		
	Equipment	reduce nutrients									g a delivery		Injection		
1.6	Rental and	being applied									service for		Equipment -		
1.0	Availability	incorrectly									equipment		\$150,000.00		
	Availability	incorrectly									equipinent		\$150,000.00		
											Contractin		Manure		
											g a custom		Spreader -		
											farming		\$10,000.00		
											operator to		7_3,000.00		
											assist in				
											equipment				
											usage				
		Implement BMP's BCC	CD, NRCS,	County	2021-2025	Project match on	Engineering	NRCS, PSU		NRCS	Engineerin	NRCS, PACD,	\$1,000,000.	REAP, Grants	
		on farms where SCC	С,			larger projects,	and design	Extension,		funding,	g, design,	Consultants	00 per year	NRCS	
		the most nutrient		Seeley Creek,		Prevailing wage,	support	Consultant		Growing	and		to increase		
		concentration		North and		increased wait		s, SCC,		Greener	permitting		overall	DCED	
		occurs (heavy use)		South Branch		times for funding		PACD			support		project	Watershed	
		and reduce the		Sugar Creek,		and farmer							numbers	Restoration and	
		travel of nutrients		Head Waters		resistance								Protection	
		into streams and		of Tioga										Program WRPP	
		construct roofed		River,											
	Barnyard,	manure stacking		Headwaters										Growing	
	Heavy Use	pads to reduce		Towanda										Greener	
1.7 *	Management,	winter spreading		Creek, Laning											
	and Manure			Creek, and											
	Storage	BMP's include		Black Creek-											
		Barnyards,		Little											
		manure storage,		Loyalsock											
		buffer strips, rain		Creek											
		gutters, etc.		Watersheds											
		Increase number													
		of total projects by													
		1 _													
		5 per year on top of current county													

and NRCS workload. Project number could increase i smaller projects are obtained. Potentially 10-1 additional proje Assist farmers t are transitioning	ets BCCD, NRCS,	County	2022-2025	Outreach to Landowners,	Planning Documents,	NRCS, PSU Extension,	Plantings, and seed	K-10, CREP	Staff to complete	NCRS, DCNR, BCCD,	Funds for Plan Writers	State Grant Programs	
Operation Transition and Land Retirement Assistance Coperation Transition and Retirement Assistance Assistance	Extension ary als ag			Potential for Long Term Contracts. Maintenance for proposed BMP's	Education	Consultant s, SCC, Foresters	for land retirement plantings		recommen dations	Consultants	and new BMP being implemente d, Plan Revisions	DCED Watershed Restoration and Protection Program WRPP Growing Greener \$75,000.00 per year	

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template

Each county-based local area will use this template to identify:

- 1. Inputs These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
- 2. Process what is each partner able to do where and by when. These are the action items listed under each priority initiative.
- 3. Outputs and outcomes both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
- 4. Implementation challenges any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items though outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description).