Phase	3 Watershed II	mplementation Plan (WIP)) Planning and P	rogress Tem	plate: Lyc	oming County								
		Green - action has been cor	npleted or is moving	forward as pla	nned <u>Yell</u>	w - action has encountered m	inor obstacles	Red - action h	nas not been tak	en or has enco	untered a serio	ous barrier		
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation								
#			Party(ies) and	Location	Timeline	Challenges or	Resources <u>Available</u>					Resources	<u>Needed</u>	
			Partnerships			Recommendations	Resources <u>Available</u>							
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source	1	Source

Priority initiative 1: Achieve Pollution Reduction Goals (these projects work directly toward IMDL reductions)
Δ Agriculture

		-8,000 additional acres by 2025	-LCCD	-	-2025	-Not getting expected ROI	-County staff	-LCCD	-Growing	-Growing	-Acquire	-NRCS	-More	-DEP
		(estimated \$40/acre)		Countywide	and	or outcome		equipment/i	Greener:	Greener	baseline		incentives	
			-FSA		beyond		-Equipment –	nformation	Tiered		cover crop	-FSA	to	-Growing
		-Have a supplemental cover				-Buy-in from farmers may	Green Drill		funding for new and	-DEP	numbers to		participate	Greener
		crop sign up/survey at the	-NRCS			be limited – need more	-Operator list		experienced		supplement	-DEP	(\$40/acre)	
		conservation district to give				participation from	operator not		cover	-Columbia	transect		\$320,000	-Funding
		more nuanced data than	-Lycoming County			landowners			croppers	County	survey	-Funding for		for vehic
		transect survey (Currently have							(multi-	Conservatio		staffing -	-2	- DEP
		4000 acres reported in cover				-Would like to have			species)	n District	- 1 clerical	DEP	additional	
		crop -can double that number				location data – X% of cover			reimburseme nt for 3 years		staff		vehicles -	
		with the supplemental sign up).				cropping is coming from X			in a row		position for		\$100,000	
		This sign up could act like a local				location, but not a lot from					collecting			
		contract like is done for federal				X location. We currently			-DEP Small		cover crop			
		contracts.				have no other place that			Business		data -			
						there's a number for cover			Advantage		\$80,000/ye			
1.1	Increase cover	-2000 of the 8000 acres are				crop recording because			grants		ar			
	crop BMPs	from Growing Greener grant				every cover crop reported			- Use the Soil					
						is in the lowest category as			Health		-1 technical			
						wheat in transect survey			Enhancemen		staff -			
									t		\$80,000/ye			
						-Need more nuanced			Reimbursem		ar			
						species for cover crop in			ent Program through					
						sign up			Columbia					
									County					
						-Transect survey should			Conservation					
						have additional species,			District as a					
						and should also consider			model					
						existing cover crops that								
						are located further from								
						the road (current reporting								
						only identifies cover crops that are a short distance								

		Green - action has been co	mpleted or is moving	forward as pla	nned <u>Yell</u>	···· - action has encountered r	minor obstacles	Red - action	has not been taken or ha	encountered a ser	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	s <u>Available</u>		Resources	Needed	
							Technical	Source	Financial Sour	e Technical	Suggested Source	Financial	Suggested Source
	1	<u> </u>	1	.I.		2	<u> </u>	<u>l</u>	<u> </u>			l	1
						from the road, and in many instances cover crops are one or two crop rows back from the road that is on							
1.2	Soil Conservation and Water Quality Plans	-Write Ag Erosion & Sediment (E&S) Plans for operations that still need them -9,200 acres by 2025	-LCCD	- Countywide	-2025 and beyond	the survey route)	-LCCD staff			-2 technical staff - \$160,000/y ear	-Funding for staffing - DEP		
1.3	Animal Waste Management Systems	-Manage runoff with multiple BMPs -Increase barnyard runoff control -20 acres by 2025 -Loafing lot management -10 acres by 2025 -Increase manure storage facilities -2 projects/year – 10 systems by 2026	-LCCD	- Countywide	-2025 and beyond	-Farmer willingness -Engineering costs -Takes over a year to get a project on the ground -Permitting can be cumbersome				-2 technical staff - \$160,000/y ear -1 grant manager/co ordinator - \$80,000/ye ar		-Costs about \$500,000 to do runoff control for one farm – would need about \$500,000 per BMP (\$1.5 million/ye ar)	-DEP
1.6	Increase rotational/pre scribed grazing	-2,700 acres by 2025 -Write grazing plans for grazing operations in the county	-LCCD	- Countywide	-2025 and beyond					-1 technical staff - \$80,000/ye ar	-Funding for staffing - DEP		
1.7	Increase no- till/conservati on tillage BMPs	-Have a no-till reporting/sign up at the conservation district to give more nuanced data -Expand equipment rental program – -300 acres/yr increase starting in 2023	-LCCD	- Countywide	-2025 and beyond				-\$5000 coming from Growing Greener	-2 additional staff to coordinate - \$160,000/y ear	-Funding for staffing - DEP	-\$40,000 for one additional 10 foot no- till drill -Storage for	-Funding for equipment - DEP

Phase	3 Watershed	Implementation Plan (WIP)											
		Green - action has been cor	mpleted or is moving	g forward as pla	nned <u>Yell</u>	ow - action has encountered	minor obstacles	Red - action	has not been taken or h	as encountered a seri	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>		Resource	s <u>Needed</u>	
							Technical	Source	Financial So	rce Technical	Suggested Source	Financial	Suggested Source
						3							
1.8	Increase buffer BMPs	-If someone doesn't qualify to re-enroll, have LCCD target those areas and plant replacement trees to be eligible to re-enroll -Live stake harvesting -Have some entity come in the first years and spray to ensure new buffers are better maintained -Field border programgive a credit/incentive/money to plant a buffer to keep crops a certain distance away from roads, forestlands, or streams	-LCCD -FSA	- Countywide	-2025 and beyond	-Buffers are declining (based on FSA data); less re-enrollment because they don't meet the standard after the 10-year re-enrollment period. This could be due to too many invasives. -Could use 10 million tree program to put trees in the buffer if the farmer gets kicked out of the buffer designation – put trees in holes in the buffer to get renewed – do this 2 years ahead of re-enrollment	hiring personnel in the Fall 2021 (increased capacity) -LCCD Nature		-DCNR C2P2 grant -NFWF -Growing Greener -TreeVitalize -PPL Community Roots	-Need assistance to encourage farmers to keep what they have by obtaining the resources to maintain their buffer -3 seasonal staff to spray new buffers - \$40,000/yr -	-Funding for staffing — Live Stake Collaborativ e and DEP	additional no-till drills - \$38,000 -1 additional vehicle per drill - \$50,000 per vehicle -Field border funding- \$100,000 (\$30/acre with hay, \$90 per acre for non-hay-producing grass buffer border)	-Funding for program - DEP
		-Up to 500 acres of non- hay-producing grass buffer/year				-Land use could change to forest land instead of agriculture after a certain period of time due to tree growth	Trail for cuttings (live stakes) -NEIN data			\$120,000 total -1 technical staff - \$80,000/yr			

Phase	3 Watershed	Implementation Plan (WIP)			= =									
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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
					1	4					-			<u> </u>
		-Up to 3,500 acres of hay-				-Buffers do not get	-Technical							<u> </u>
		producing pasture/year				counted for depth in CAST Model -Make sure to put a turn in the field border	outreach/Ince ntive program through DCNR buffer program and CREP				-1 outreach staff - \$80,000/yr			
						-Allow GP6 ag crossing in special protection watersheds	CIVE							
		-Write manure management	-LCCD	-	-2025		-Lycoming				-Case	-Funding for		
		plans for non-CAOs and non- CAFOs	-Lycoming County	Countywide	and beyond		County staff				studies to showcase	staff - DEP		
		CAIOS	Lycoming county		Beyond		-Data from				success			
	Ag Land	-21,700 acres by 2025 (~200	-NRCS				LCCD							
	Nutrient	management plans)									-Technical			
	Management						-Centre				outreach			
1.9	– Basic	-Track nitrogen and phosphorus in PracticeKeeper (core N and P,					County received				-2 staff to			
	Nutrient	placement, rate, and timing)					grants for				write the			
	Management	-8,000 acres of basic nutrient					plan writing –				manure			
		management tracking by 2025					look to them				manageme			
							as an example				nt plans - \$160,000/y			
											ear			
	landara a d	-Agriculture Stormwater Management -11.9 acres by 2025 (total of current NRCS projects)	-NRCS	- Countywide	-2025 and beyond									
1.11	Implement NRCS Projects	Soil Conservation and Water Quality Plans -1,220 acres by 2025												
		Water Control Structures												

		Green - action has been co	mpleted or is moving	forward as plai	nned <u>Yell</u>	action has encountered ، - action	minor obstacles	Red - action l	nas not been taken	or has enco	untered a serio	ous barrier		
ction #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resources	Needed	
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
						5						Source		Source
						3								
		-285.8 acres by 2025												
		Off Stream Watering Without												
		Fencing 2025												
		-20.3 acres by 2025												
		Forest Buffer-Narrow with												
		Exclusion Fencing												
		-48.9 acres by 2025												
		Precision Intensive												
		Rotational/Prescribed Grazing												
		-153 acres by 2025												
		Land Retirement to Pasture												
		-6 acres by 2025												
		Land Retirement to Ag Open												
		Space												
		-9.75 acres by 2025												
		Forest Buffer												
		-9.2 acres by 2025												
		Grass Buffer												
		-117.2 acres by 2025												
		Conservation Planning												
		-1,500 acres/year												
B. [Developed/Ui		LCCD	1:441-	2025	Landauman buusti	1		DCND		Haviin n	DED	From altinos to	DED
	Turf field	-Implement a documentation	-LCCD	-Little	-2025	-Landowner buy-in	-Lycoming		-DCNR		-Having	-DEP	-Funding to	-DEP
.13	Nutrient	program for commercial and homeowner nutrient	-Lycoming County	League	and beyond	-Education of responsible	County staff		Environment al Education		solutions to offset	-Extension	cover costs for soil	-Extensio
	Management	applications in developed lands	Lycoming county	-Churches	beyond	parties			grant		fertilizer	LACEIISIUII	tests -\$9	LACCION

		Green - action has been con	npleted or is moving	forward as plan	nned Vell	w - action has encountered i	ninor obstacles	Red - action	has not been tak	en or has enco	untered a serio	us barrier		
				·				<u></u>						
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation								
#			Party(ies) and	Location	Timeline	Challenges or		Resource	s <u>Available</u>			Resources	<u>Needed</u>	
			Partnerships			Recommendations						,	,	,
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source
						6								
			-NRCS				-Data from						per test	
		-Support fertilizer legislation		-Hospitals		-Coordination between	LCCD		-DCNR Lawn		-More soil		through	
						partners			Conversion		tests		Penn State	
		-Quantify artificial turf acres – ID		-Cemeteries			-DCNR Lawn		program				Extension	
		data				-Limited by plant height	Conversion				-1			
				-School		(don't want them to get	Program		-PennVest		Edu/outrea			
		-Golf course improvements (use		Districts		too high on golf courses)					ch staff -			
		BMPs for PA Golf Courses					- Penn State				\$80,000/yr			
		Guide)		-Golf		-Maintenance	Extension soil							
		-White Deer Golf Course		courses			testing							
						-Landowners may be	resources							
		-Williamsport Country Club		-Colleges		limited in their scope of								
						interest	-Master							
		-Convert turf fields and lawns to					naturalists/ga							
		meadow/riparian				-Focus on benefits of	rdener							
						managing land	program							
		- 20 acres of turf conversion by				holistically/big-picture to								
		2025				increase quality of								
						experience								
						-Better management with								
						BMPs would lead to less								
						costly maintenance								
						-Ensure local/county								
						ordinances do not conflict								
						with goal								
		-Ensure projects are equitably	-Flood buyout	-	-2025	-Expand funding for	-Landscapers		-NFWF		-Technical	-Funding for	-	-Funding
		distributed and address	plantings	Countywide	and	targeted green					assistance	staff – DEP	Funding/ca	for
	Green	environmental justice issues	-FEMA		beyond	infrastructure projects that	-Small		-DCNR C2P2				pacity for	maintenan
	infrastructure,		Local Marraia			are located in low-	businesses		grant		- Maintanas	-	municipal	ce and
1.14	buffers, and	-Improve stormwater	-Local Munis			income/minority neighborhoods (e.g.	-Chesapeake				Maintenanc e	Maintenanc	maintenan	programs -
	plantings	management by implementing	-PEMA			Targeted Outreach for	Conservancy		-Growing			e and	ce -\$5	DEP
		and expanding green				Green Infrastructure	data available		Greener		-Penn State	technical	million per	
		infrastructure:	-Airport			(TOGI))					Capstone	assistance –	year	

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		·			Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
				7								
	- Street trees				-Penn State		-TreeVitalize		Project for	TreeVitalize,		
		-Municipalities		-Resistance from	Capstone				maintenanc	Clean Water	-Ten	
	-Bioswales	a.ma.pamasa		developers	Project for		-DEP		е	Institute,	\$7,000	
	-bioswales	Lycoming County		developers	maintenance		-DLI		(internship)	-	1 -	
		-Lycoming County		_	(internship)					SGP, and	mini grants	
	-Rain gardens			-Expense	, , , ,		-Private		-	AmeriCorps	per year -	
		-LCCD			-		sector grants		Universities		\$70,000	
	-Plantings along local			-Maintenance	Universities/C				/Colleges			
	streets and bordering	-Businesses and			olleges for		-Keep		for		_	
	parking lots to capture	campuses		- Look at what properties	internship for		Pennsylvania		internship		Greenways	
	and filter stormwater	campases		(authorities and muni land	maintenance		Beautiful		for		, Trails, and	
	and filter Stormwater			ownership) exist for long-					maintenanc			
		-Golf courses		term plantings for	-FSA data		Community		e		Recreation	
	-Establish Street Tree			consistency of ownership			Improvemen				funding	
	Committee	-Susquehanna		·	-10 Million		t Grants		-1 Lycoming		potential	
		Greenway		-If we rely on college	Trees		(Healing the		County			
	-Do plantings on hospital	Partnership (SGP)		interns, the internships	program		Planet Grant		_			
	campuses	· a. a. e. e ,		may not line up with when	' ' '		Program)		Planning			
	Sampasss	DCED		maintenance needs are	-Chesapeake		Fiograiii		staff to			
	-Improve and increase trails/ID	-DCED			Conservancy –				implement			
	ways to improve the "Pathways			highest	buffer		-PennVest		and run			
	to Health"	-DCNR			maintenance				green			
	to riculti			-Training interns long term			-PPL		infrastructu			
	-Expand TreeVitalize program in			would be laborious and	-Live Stake		Community					
	County			inconsistent	Collaborative:		Roots		re program			
	County			inconsistent	hiring				-			
	-Plant buffers and basins on golf			Landa and Albani	personnel in				\$80,000/ye			
	courses (use BMPs for PA Golf			-Landowners would not	the Fall 2021				ar			
	Courses Guide)			feel ownership over	(increased							
	-White Deer Golf Course			plantings if we use interns	capacity)				-1 grant			
	riparian buffers/vegetated			to maintain the planting					coordinator			
					-LCCD Nature							
	plantings			-Need buy-in and	Trail for				for			
				•	cuttings (live				Lycoming			
	-Remove earthen berm from			willingness to modify	stakes)				County			
	White Deer Golf Course			management practices	Junes				Planning			
	(county may own that land)								and LCCD -			
	(== 2)			-Landowners may be					\$80,000/ye			
				limited in their scope of	1	1	1		YOU,OUU, YC	1	I	ĺ

	Green - action has been com	pleted or is moving	forward as pla	nned <u>Yell</u>	w - action has encountered minor obstacle	s <u>Red</u> - action	has not been taken o	r has encount	tered a serio	us barrier		
ction Descript	ion Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation							
#		Party(ies) and	Location	Timeline	Challenges or	Resource	s <u>Available</u>			Resources	<u>Needed</u>	
		Partnerships			Recommendations		1 1	_	1			Т_
					Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
I			- I		8		<u> </u>	I				
	-Continued maintenance in				interest (more specific to							
	floodplain restoration site at				business owners)			-F	unding for			
	White Deer				·				du/outrea			
					-Focus on benefits of				h staff and			
	-Williamsport Country Club				managing land			gı	rant			
					holistically/big-picture to			co	oordinator			
	-Involve Lycoming County Little				increase quality of			-				
	League Network to improve				experience			\$8	80,000/ye			
	multiple potential planting sites							aı				
	on turf fields				Flood buyout plantings:							
	-Plantings on flood buyout lots				-FEMA regulations for							
	riantings on nood bayout lots				plantings (Challenges							
	-Expand streambank plantings				with FEMA buyout lots							
					with needed technical							
	-100 acres of forest buffers				studies)							
	-10 acres of rain gardens				-Chapter 106 studies							
	-30 acres of green											
	infrastructure ("filter strip				-Lots of permits would							
	runoff reduction, filter strip				be needed to do							
	stormwater treatment, filtering				plantings							
	practices")											
	practices y				-Need revision to the							
	-200 acres of tree planting				regulation – allowing							
	-200 acres of tree planting				native tree and shrub							
	-100 acres of wetland				plantings on flood							
	restoration				buyout lots - would							
	165toration				allow us to do more							
	-5 acres of bioswales				nutrient reduction							
					BMPs							
					Find out if MS4s are							
					already working with							
					TreeVitalize							

- 11450	<u> </u>	Implementation Plan (WIP) Green - action has been con			<u> </u>	ow - action has encountered	minor obstacles	Red - action	has not been take	en or has end	ountered a serio	ous barrier		
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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
						9								
1.16	Dirt and Gravel Roads	-LCCD Dirt and Gravel: -10 feet Driving Surface Aggregate + Raising the Roadbed by 2025 -49 feet Driving Surface Aggregate with Outlets by 2025 -1 foot Outlets only by 2025 -Trout Unlimited (see also "Trout Unlimited Projects", Action # 1.19): -Flooks Run Road, Dirt and Gravel Road Improvement - 4,235 feet -MS4 Dirt and Gravel (see also "Continue MS4 Projects", Action #4.5): -8.7 feet	-LCCD -Municipalities -Lycoming County	- Countywide	-2025 and beyond	- Possible lack of landowner buy in for right of way to allow BMP's to work properly. - Lack of qualified workers -No way to increase funding from LCCD unless looking for other sources of funding (based on a specific formula) -Need availability to shale and cost of driving surface aggregate can affect number of projects - To improve existing practices allow Tar and Chip for current D&G roads to remove dust as a source of pollution. - Update prevailing wage requirements for D&G to	-LCCD staff -Trout unlimited technical assistance		-LCCD funding for program (set number of dollars), but always get more inquiry than they have available		-2 technical staff - \$80,000/ye ar	-Funding for staff - DEP	-3 additional vehicles - \$150,000 -Survey equipment -\$30,000 -Additional office space - \$40,000/y ear for 2,000 sq ft office space (\$20/sq ft)	-Funding for equipment - DEP

municipal monies.

stream crossing

reviews

- Have D&G and DEP compromise on matching

requirements for expedited

- Ability to obtain shale at a reasonable price for the

quantities that would be

		Green - action has been cor	npleted or is moving	forward as pla	nned <u>Yell</u>	- action has encountered	minor obstacles	Red - action l	has not been tak	en or has enco	ountered a serio	ous barrier		
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							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source
						10								
						needed, also obtain DSA								<u> </u>
						that meets D&G spec at								
						the quantities needed at a								
						reasonable price.								
						- D&G stream crossing								
						requirements too extorted								
						compared to DEP's								
						requirements.								
						- Townships keep roads on								
						the books to keep liquid								
						fuels payments up but no								
						one uses them and they								
						are in rough condition and								
						probably big polluters. So								
						maybe liquid fuels money could be allocated								
						differently or revamped.								
<u> </u>	Natural		T	1	T		T	T	1	T	1	1	T .	
		-Trout Unlimited (see also	-LCCD	-Plunketts	-2025	-Depth of streambank	-Trout		-NFWF (will		-Case	-DEP	-Outreach	-DEP
		"Trout Unlimited Projects",	-Lycoming County	Creek	and	stabilization/restoration	Unlimited		not fund		studies to	Danie Glada	and edu	DA ELL
		Action # 1.19):	Lycoming country	Little Dine	beyond	projects does not get	technical		streambank		showcase	-Penn State	money	-PA Fish
		-Cemetery Road (Bear Run)	-NRCS	-Little Pine		counted in CAST Model	assistance/en		restoration		success	Extension	From Alice an	and Boat
		-1,030 feet		Creek		Landaumana maay maad	gagement/pro		for this grant		Tookaisel		-Funding	Commission
		Savina Candan Hunting Club	-US Fish and	Din a Dun		-Landowners may need	jects		round -		-Technical		for	n
	Stream/strea	-Spring Garden Hunting Club (Blockhouse Creek)	Wildlife	-Pine Run Watershed		technical assistance,	-US Fish and		2021)		assistance,		maintenan	
1.17	mbank	· ·	-Extension	watersneu		equipment, and education	Wildlife		Crowing		equipment,		ce (for	
	restoration	- 1,000 feet	partners	-Ag		for project maintenance	viluille		-Growing Greener		and education		contractors or create a	
		-Tiadagthon State Forest		impaired		-Establish a regional work	-Fish and Boat		Greener		to		regional	
		Chop and Drop (Browns	-Northcentral PA	streams		crew to help maintain	Commission		-TreeVitalize		landowners		work crew)	
		Run)	Conservancy	focus		projects/limit invasives	Commission		TICE VICALIZE		for project		VVOIR CIEVV)	
		-1 mile of large wood	-Trout Unlimited	10003		projects/ mint myasives	-Chesapeake		-Trout		maintenanc			
		additions.	- Hout Omminited			-Have regional entity to	Conservancy		Unlimited		e (Penn			
		additions.	-Fish and boat			work with the conservation	data/rapid		funding		State			
			commission			with the constitution	auta/Tupiu		Tanania					

Phase	3 Watershed	Implementation Plan (WIP)) Planning and Pi	rogress Tem	plate: Lyc	oming County								
		Green - action has been cor	mpleted or is moving	forward as pla	nned <u>Yell</u>	- action has encountered I	minor obstacles	Red - action h	as not been tak	en or has enc	ountered a serio	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Resources Source	<u>Available</u> Financial	Source	Technical	Resources Suggested Source	Needed Financial	Suggested Source
			1	-		11	1				1	1	1	l
		-Northcentral Pa Conservancy projects (see also "Northcentral PA Conservancy projects", Action # 1.25): -Plunketts Creek -2,000 feet -Integrate rapid stream de- listing planning strategy	-Watershed Associations - Chesapeake Conservancy			districts on landowner outreach. They would go on site visits, and would provide continuity when districts have staff changes. -Loosen restrictions on buffer and fencing money (fencing 15 feet from the top of a streambank is not ideal) -Allow GP6 ag crossing in special protection	stream de- listing -Fish and boat commission has technical assistance		-Fish and boat commission has funding for staff		Extension has some resources) -Incentive program - Comprehen sive Stream Assessment, temp monitoring			
1.18	Floodplain Restoration	-Lycoming College Biology Field Station project -2,225 feet converted to floodplain	-LCCD -Lycoming County -Chesapeake Conservancy -Trout Unlimited -FWS -DEP	- Countywide	-2025 and beyond	watersheds	-Chesapeake Conservancy data -Trout Unlimited wetland delineations -Kip Starks from DEP -Mark Roberts		-Lyco College Clean Water Institute -PennVest -Growing Greener					
1.19	Trout Unlimited Projects	-Cemetery Road (Bear Run) -1,030 feet -Spring Garden Hunting Club (Blockhouse Creek) - 1,000 feet	-Lycoming College -Trout Unlimited (Phil Thomas, Stream Resto Specialist, Philip.thomas@tu .org, 814-242- 2696 and Jerry White, Tiadaghton Office,	-Blockhouse Creek -Browns Run -Flooks Run Road		-Limited time and capacity for the additional projects they'd like to do in the county -Funding for maintenance and implementation is restrictive and limited	from US FWS -TU technical staff		-Existing funding from private foundation, NFWF, Growing Greener, and		-1 Field staff who would split their time between Lycoming County projects and	-DEP	-Funding for excavators and other earthwork equipment - \$1 million	-DEP

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template: Lycoming County **Green** - action has been completed or is moving forward as planned **Red** - action has not been taken or has encountered a serious barrier - action has encountered minor obstacles Responsible Expected Description Performance Target(s) Geographic **Potential Implementation Action Challenges or** Party(ies) and Resources Available Resources Needed Location Timeline Partnerships Recommendations Technical Technical Source **Financial** Suggested **Financial** Suggested Source Source Source **12**

	-Tiadagthon State Forest Chop	whitesgordonsettl					Cold Water	other			
	and Drop (Browns Run)	ers@gmail.com,	-Bear Run				Heritage	regional			
	-1 mile of large wood additions.	570-662-2167)						projects			
								outside of			
	-Flooks Run Road, Dirt and							the county -			
	Gravel Road Improvement							\$80,000/ye			
	- 4,235 feet							ar			
	-200 trees planted	-Currently owned	-South	-2025	-Funding	-Brian Auman	-Variety of	-Needs	-DCNR	-Need	-Grant
	-70 acre wetland and meadow	by Armstrong Twp	Williamspor	and		worked on a	funding	planning		grant	matches -
		(will be new South	t	beyond	-Could be challenges with	preliminary	(planning,	(master	-Funding for	matches	DEP
	-Implement future	Side Rec Authority			wetland boardwalk	plan	development	planning/st	staff - DEP		
	improvements (trails, wetlands,	ownership)			because it is a regulated		, riparian	ewardship		-Need	-Planning
	plantings)				wetland	-Jim Dunn	buffers)	planning)		planning	documents
		-Ducks Unlimited				working on				documents	- DCNR
					-Public Access issues with	planning and	-DCNR	-Funding for			
					railroad (Norfolk Southern)	stewardship		edu/outrea		-Need soil	-Soil
							-NFWF	ch staff and		testing	testing -
						-Plantings and		grant			DEP/Extens
						wildlife boxes	-PennVest	coordinator		-Need	ion
1.20 Sylvan Dell						were		-		volunteers	
improvemen	ts					established	-DEP	\$160,000/y		for	-
							(Growing	ear		maintenan	Volunteers
						-Ducks	Greener)			ce	- Clean
						Unlimited					Water
							-First			-Need	Institute,
							Community			more	TreeVitaliz
							Foundation			trees/vege	e, Penn
							money			tation	State
							-Look at				-Trees -
							DCNR				TreeVitaliz
							funding list				e, Penn
							from				State, 10

Phase	3 Watershed	Implementation Plan (WIP) Planning and P	rogress Tem	plate: Lyc	coming County								
		<u>Green</u> - action has been con	mpleted or is moving	forward as pla	nned <u>Yell</u>	ow - action has encountered i	minor obstacles	Red - action	has not been taken	or has enco	ountered a serie	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	Available			Resources	<u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
			•			13						•		
									Northwest					Million
									region					Trees
									-Greenways, Trails, and Recreation grant (submitted for \$250,000 for 1.5 mile trail expansion for Nature Trail at the Robert Porter Allen					
1.21	Pine Creek Valley Improvements	-Implement streamside parks (Waterville park example) -Work on rail trail improvements -Identify project gaps -Include parks along Pine Creek -20 acres of forest buffer by 2025	-Municipalities -Lycoming County -Pine Creek Watershed Council (Jim Weaver) -Trout Unlimited -Pine Creek COG -DCED -DCNR	-Pine Creek Valley	-2025 and beyond	-Funding for projects and maintenance can be restrictive and limited -Prioritize projects on government/municipal-owned land	-Trout Unlimited technical resources		-PennVest		- Coordinatio n among multiple entities	-Multiple sources		

· Compi	etion of the projec	ets and programs listed herein will be	e predicated upon receivin	g the resources r	equested in ti	nis pian								
Phase	3 Watershed	Implementation Plan (W	P) Planning and Pr	ogress Tem	plate: Lyc	oming County								
		Green - action has been o	ompleted or is moving	forward as plai	nned <u>Yell</u>	action has encountered r	minor obstacles	Red - action	has not been tak	en or has enco	ountered a serio	ous barrier		
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation								
#			Party(ies) and	Location	Timeline	Challenges or		Resources	<u>Available</u>			Resources	<u>Needed</u>	
			Partnerships			Recommendations								
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source
			•			14								•
		-South Williamsport park	-Lycoming County	-South	-	-Funding for maintenance	-Local interest		-DCNR		-Funding for	-Funding for	-Funding	-DEP
		-Address stormwater		Williamspor	Continuo				funding for		edu/outrea	staff – DEP	for	
		(current swales retain	N 4 i ai a liti a a	1	_	C:	K40		-1		ch staff and			

		-South Williamsport park -Address stormwater	-Lycoming County	-South	-	-Funding for maintenance	-Local interest	-DCNR	-Funding for edu/outrea	-Funding for	-Funding	-DEP
		(current swales retain	NA total distan	Williamspor	Continuo	6	1/4.0	funding for	ch staff and	staff – DEP	for	
		water)	-Municipalities	t	us	-Some improvements are	-K10 Partnership	stormwater	grant	F din a fau	maintenan	
		water	-Chamber of	Llughosville		located in floodplain, which	(10 million	management	coordinator	-Funding for	ce and	
		-Sensory garden	Commerce	-Hughesville		can cause permitting and	trees)	with green	-	planning –	implement	
		Schooly garden		-Lewis Twp		logistics issues		infrastructur	\$160,000/y	DCNR and DEP	ation - \$5 million	
		-Brandon Park nature-based	-DCED	-Lewis Twp		-Some areas are wet and	-Muncy	е	ear	DEP	Illillion	
		playground		-Muncy		will need mosquito	projects	-Variety of	-Parks may			
		play6. Galla	-DCNR	Borough		treatment	found in	funding	need			
		-New baseball field		Dorougn		treatment	Muncy	(planning,	updated/ne			
				_		-Ensure projects are	Recreation	development	w			
		-6 acres of plantings by		Montoursvil		equitable distributed	Sites Report,	, riparian	planning/Sit			
		2025		le Borough		equitable distributed	2013; see pdf	buffers)	e e			
							pg 33 and in	James,	developmen			
		·		_			Muncy	-NFWF	t/strategic			
		-East Lycoming Recreation Authority park		Montgomer			Resiliency		plans			
1.22	Municipal park	-Wetland restoration and		y Borough			Plan, 2021	-PennVest				
	improvements	tree plantings at Lime Bluff					-Restoration		-Volunteers			
		to address drainage issues		-			plans-	-DEP	(TreeVitaliz			
		EE		Williamspor			"Montoursvill	(Growing	e)			
		-55 acres of field conversion by 2025		t			e Borough	Greener)				
		by 2023					Parks Master					
				-Loyalsock			Plan Summary	-First				
		-Trout Run park		Twp			Report" by	Community				
		-10 acres of plantings by					Brian Auman,	Foundation				
		2025					2014	money				
		-Muncy Improvements					-Projects in	-Look at				
		-Green Street park					Muncy	DCNR				
		2. 22 23. 23 . p					Resiliency	funding list				
		-Improvements to Glade					Plan, 2021	from				
		Run streambank and					,	Northwest				
		stream bed						region				

Phase	3 Watershed	Implementation Plan (WIP)) Planning and P	rogress Tem	plate: Lyd	coming County								
		Green - action has been con	npleted or is moving	forward as pla	nned <u>Yell</u>	ow - action has encountered	minor obstacles	Red - action	has not been take	n or has enco	ountered a serio	us barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>			Resources	Needed	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
		<u> </u>				15								
		-Muncy Creek Floodplain							-Greenways,					
		Restoration Project							Trails, and					
									Recreation					
		- Indian Park							grant					
		-20 acres of plantings by 2025							-Borough					
		2023							funds, state					
									grants,					
		-Montgomery -Restoration							community					
									fundraising					
		-Plantings							-Great					
									American					
		-Heshbon park							Outdoors Act					
									-LWCF					
		-Williamsport Ball Park (may be							funding					
		MS4 credit) -Convert former brownfield												
		to ballpark field												
		Louisland Turn												
		-Loyalsock Twp -Riverfront Park Canfield												
		Island Heritage Trail Park												
		Old Luceming Turn												
		-Old Lycoming Twp -Buyout lots (community												
		garden and veterans park)												
		In an												
		-Increase native plantings and removing invasive species												
	_ ,,,,-	-Miller's Run Greenway	-Loyalsock Twp	-Loyalsock	-	-3 rd street crossing for	-Discussed in		-NFWF		-Funding for		-Funding	-Funding
1.23	Trail/Greenwa	construction	Rec Department	Twp	Continuo	Miller's Run going over	2017 Lycoming				edu/outrea	funding –	for	for
	y projects		involvement		us	bridge is very expensive	County		-PennVest		ch staff and	DEP	updating	planning

Phase	3 Watershed	Implementation Plan (WIP)) Planning and Pi	rogress Tem	plate: Lyc	oming County								
		<u>Green</u> - action has been cor	mpleted or is moving	forward as plan	nned <u>Yell</u>	u - action has encountered	minor obstacles	Red - action	has not been tak	en or has enc	ountered a serio	us barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>			Resource	s <u>Needed</u>	
			r artifersings			Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested
				I	I	16	<u> </u>						-1	
		-Connect the park at North	-Susquehanna	I _			Comprehensiv				grant		SGP	and
		Way Rd to Williamsport	Greenway	Countywide		-Funding for maintenance	e Plan		-DEP		coordinator		master	technical
		RiverWalk	Partnership	Countywide		-runding for maintenance					Coordinator			assistance
		-~1 mile of buffer				Crossing private property	-Feasibility		(Growing		- \$160,000/w		plan	– DCNR,
			-Lycoming County			-Crossing private property	studies for		Greener)		\$160,000/y		F din c	· ·
						is challenging	West Branch		First		ear		-Funding	DEP
		-Susquehanna Greenway	-DCED			Della ada ada asa	Greenway		-First		24		for	e
		completion	DCNID			-Railroad and street	routes exist		Community		-Maps for		technical	-Funding
		-Implement buffered river access points every 5 miles	-DCNR			crossings are very			Foundation		existing		assistance	for legal
		access points every 5 illies				expensive and challenging			money		and future			assistance
		-Improve and expand River									trails		-Funding	– DEP
		Towns program to advance				-Coordination and			-Look at				for trail	
		green infrastructure and				continuity between			DCNR		-Legal		feasibility	-Funding
		buffers				multiple entities			funding list		assistance if		studies	for bridge
									from		easements			upgrades -
		-Reduce runoff by having							Northwest		are needed		-Funding	DEP,
		forested buffer throughout							region				for	PennDOT
		Susquehanna River											design/ma	
		-Update SGP master plan to							-Greenways,				ster plans	-Funding
		ensure effective and							Trails, and				and	for
		efficient planning							Recreation				constructio	property
									grant				n of trails	acquisition
		-~36 miles of greenway												– DEP,
		(forest buffer) in Lycoming											-Funding	PennVest
		County (~430 acres of											and legal	
		buffer)											assistance	-Funding
													with	for boat
													Norfolk	launches -
													Southern/r	
													ailroad	,
													crossings	-Funding
													2. 2.295	r

for

DEP

wayfinding

– DCNR,

-Funding

for bridge

upgrades and

Phase	3 Watershed	Implementation Plan (WIP)	Planning and Pr	ogress Tem	plate: Lyc	coming County					
		Green - action has been cor	npleted or is moving	forward as pla	nned <u>Yell</u>	ow - action has encountered i	minor obstacles	Red - action	has not been taken or has end	countered a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	s <u>Available</u>	Resource	es <u>Needed</u>
							Technical	Source	Financial Source	Technical Suggested Source	Financial Suggested Source
	l					17	I				
											improvem ents for trails -Property acquisition funding and assistance -Funding for boat launches -Funding for
1.24	Trail and boat access sites/parking lot improvements	-Improvements at all sites to reduce erosion and runoff issues -5 acres of erosion and sediment control level 2 by 2025	-Fish and Boat -Lycoming County -Susquehanna Greenway Partnership -Chesapeake Conservancy -Municipal public launches (Jersey Shore and Muncy Heritage Site) -DCNR	- Countywide	-2025 and beyond	-Work with Fish and Boat maintenance crews so that they know not to mow or do specific standard maintenance	-Fish and Boat data -Susquehanna Greenway Partnership data/inventor y -DCNR data/inventor y		-DCNR -Riparian forest buffer plantings funding -Fish and Boat boating facilities grant -If in muni land, can use facilities	Engineering, design, and construction	for wayfinding -\$10-12 million -Funding -DEP for pervious surfaces and engineerin g/design- \$3-5 million

Phase	3 Watershed	Implementation Plan (WIF	P) Planning and P	rogress Tem	plate: Lyo	oming County							
		Green - action has been co	mpleted or is moving	forward as pla	nned <u>Yell</u>	ov - action has encountered	minor obstacles	Red - action has not been tak	cen or has enco	ountered a serio	ous barrier		
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation							
#			Party(ies) and	Location	Timeline	Challenges or		Resources <u>Available</u>			Resources	s <u>Needed</u>	
			Partnerships			Recommendations							
							Technical	Source Financial	Source	Technical	Suggested	Financial	Suggested
											Source		Source
						18							
							-Chesapeake	improvemen					T
							Conservancy	ts funding					
							data						
								-Western PA					
								Conservancy					
								mini grants					
								-Lumber					
								Heritage mini					
								grants					
		-Plunketts Creek stream	-Northcentral PA	-Plunketts	-2021	-Depth of streambank	-Trout	-NFWF (will		-Case	-DEP	-Outreach	-DEP
		restoration	Conservancy	Creek	and	stabilization/restoration	Unlimited	not fund		studies to		and edu	
		-2,000 feet of restoration	ŕ		beyond	projects does not get	technical	streambank		showcase	-Penn State	money	-PA Fish
				-	,	counted in CAST Model	assistance/en	restoration		success	Extension	,	and Boat
		-Implement future projects in		Countywide			gagement/pro	for this grant				-Funding	Commissio
		the county (e.g. buffers)				-Landowners may need	jects	round -		-Technical		for	n
						technical assistance,		2021)		assistance,		maintenan	
						equipment, and education	-US Fish and			equipment,		ce (for	
						for project maintenance	Wildlife	-Growing		and		contractors	
								Greener		education		or create a	
	Northcentral					-Establish a regional work	-Fish and Boat			to		regional	
	PA					crew to help maintain	Commission	-TreeVitalize		landowners		work crew)	
1.25	Conservancy					projects/limit invasives				for project			
	projects						-Chesapeake	-Trout		maintenanc			
	projects					-Have regional entity to	Conservancy	Unlimited		e (Penn			
						work with the conservation	data	funding		State			
						districts on landowner				Extension			
						outreach. They would go	-Fish and boat	-Fish and		has some			
						on site visits, and would	commission	boat		resources)			
						provide continuity when	has technical	commission					
						districts have staff changes.	assistance	has funding		-Incentive			
								for staff		program			
						-Loosen restrictions on							
						buffer and fencing money				-			
						(fencing 15 feet from the				Comprehen			

		Green - action has been con	npleted or is moving	forward as pla	nned <u>Yell</u>	w - action has encountered r	minor obstacles	Red - action h	as not been take	n or has enc	ountered a serio	us barrier		
tion #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resources	<u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
		I			I	19								
						top of a streambank is not ideal)					sive Stream Assessment, temp monitoring			
iorit	ty Initiative 2	Coordination, Education, (Outreach, and Tra	ining (these	projects r	e-enforce projects that a	lirectly reduce	TMDL's)						
	Outreach and						•	·						
1	Use County farm for education – BMP Tours -No-till -Cover Crops -Buffers -Nutrient management	-Hold tours for 4H, Future Farmers of America, Scout Troops, schools, etc. -Photo history of a buffer to see how it builds over time (set expectation that they will not look neat and tidy all the time) -Calibrating manure spreaders (Bradford County has scales where you can weigh to gage how many tons went onto field) -600 additional acres of no-till by 2025 -8,000 additional acres of cover crops by 2025	-LCCD -NRCS -Lycoming County		-2025 and beyond	-Efforts may not increase program interest or elicit behavior change -Can be multiple ideas of what "no-till" means among the farming community, which can lead to misunderstandings	-DEP for outreach/med ia platform/mat erials -Can expand on other agencies or organizations' efforts	-DEP -Penn State Extension			-Long-term ag peer group/com mittee for programma tic work -Hire education/ outreach staff - \$80,000/ye ar -Hire county- wide grant coordinator - \$80,000/ye	-Agriculture Peer Group contacts		
		-4,326.4 additional acres of buffers by 2025									-LCCD forester position - \$80,000/ye			

Phase	3 Watershed	Implementation Plan (WIP)	Planning and Pi	ogress Tem	plate: Lyc	coming County								
		Green - action has been cor	npleted or is moving	forward as pla	nned <u>Yell</u>	action has encountered i	minor obstacles	Red - action has	not been take	en or has enc	ountered a serio	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources <u>Av</u>	vailable			Resources	<u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
	1				1	20			•					
2.2	Use County farm for education – Annual field days -No-till -Cover Crops -Buffers -Nutrient management	-Message toward "regenerative" agriculture approach -Change farming practices with demonstrations (yield comparisons at County Farm) and messaging ("Park the Plow") -600 additional acres of no-till by 2025 -8,000 additional acres of cover crops by 2025 -4,326.4 additional acres of buffers by 2025	-LCCD -NRCS -Lycoming County		-2025 and beyond	-Efforts may not increase program interest or elicit behavior change -Impact can be difficult to quantify	-County staff -US and PA No-Till Alliance: farmer mentor program -Game Commission land -National Ag Statistics from USDA surveys -Transect Survey -Capital RC&D	N A full of the state of the st	US and PA lo-Till Illiance unding DEP Small susiness dvantage rants NRCS unding Tiered unding for o-till (see bove for otential model)		-Marketing and rebranding position for county farm - \$80,000/ye ar -Marketing and rebranding position for county farm - \$80,000/ye ar	-DEP		
2.3	Attend events and increase in-person outreach to increase BMPs	-County Fairs -1 st Fridays and 1 st Saturdays -Balloonfest	-LCCD -NRCS -Lycoming County	- Countywide	-2025 and beyond	-Ensure outreach materials are available in multiple languages and address potential culturally-specific priorities	-Outreach materials -Clean Water Institute				Education/ outreach staff - \$80,000/ye ar	-Funding for staff and public messaging - DEP		

		Green - action has been con			<u> </u>	oming County	minor obstacles	Red - action	has not been take	en or has one	nuntered a serie	us harrior		
							illioi obstacies	<u>neu</u> - action	ilas ilot beeli taki	en or nas ence	Juntereu a serio	ous parrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>			Resources	<u>Needed</u>	
			Самомиро				Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
						21								
		-Host meetings/workshops with				-Impact can be difficult to					-More			
		farmers and forest landowners				quantify					condensed/			
											digestible			
		- Field days, demos at County				-Efforts may not increase					public			
		Farm				program interest or elicit					messaging			
		– 2 events at County Farm per				behavior change					materials			
		year -LCCD Facebook and Instagram	-LCCD	_	-2025	-Ensure social media posts	-Lots of social	-LCCD			-Outreach	-DEP		
		Leeb racebook and instagram	LCCD	Countywide	and	are available in multiple	media	LCCD			and	DEI		
		-Message on money saved from	-Lycoming County		beyond	languages	strategies	-Lycoming			education			
		water quality improvements	, , ,		,		available	County			staff -			
						-Be strategic about					\$80,000/ye			
						programmatic co-benefits					ar			
	Expand social					(Establish or expand								
_	media					incentive programs like								
.4	presence to					cover crop or no-till)								
	increase BMPs					-Message the work that is								
						being done in the County –								
						we need to be our own								
						ambassadors								
						-Impact may be difficult to								
						quantify								
		-Permit processes and	-FSA	-	-2025	-Ensure resources are	-SRBC		-PennVest		-Identify			
		procedures-Provide permit		Countywide	and	equitably	resources				baseline for			
		assistance for landowners and	-NRCS		beyond	distributed/available			-NOAA		financial			
	Expand	developers					-Can expand		funding		assistance			
	ovicting		-LCCD			-Permits not being	on other				and CREP			
	existing		2002											

acquired or adhered to

-Some projects do not get

funding, and projects can

"fall through the cracks"

agencies or

-Ann Marie

efforts

Baker –

organizations'

2.5

resources and

technical

assistance

-ID ways to streamline permit

-Expand awareness of financial

processes

assistance

-DEP

-PPL

-DEP

Foundation

environment

sign up

-Edu and

outreach

with

staff to help

Phase	3 Watershed	Implementation Plan (WIP)	Planning and P	rogress Tem	plate: Lyd	coming County								
		<u>Green</u> - action has been con	mpleted or is moving	forward as pla	nned <u>Yall</u>	- action has encountered	minor obstacles	Red - action	has not been taken o	or has enco	ountered a serio	us barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>			Resources	S <u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
						22							<u> </u>	30000
-	1	1		T	T		_	T					1	1
		-Expand FSA, CREP, sign up				-Efforts may not increase	Duboistown		al edu grants		permitting/			
						program interest or elicit	Borough		(due in Dec)		collab/resou			
		-Expand conservation planning,				behavior change	_				rces to help			
		grazing plans, design, and					-Mel		-PA Assoc of		people prep			
		engineering				-Not enough landowner	Zimmerman –		Conservation		and review			
						interest	Lyco College,		Districts has		permits -			
		-increase financial assistance by					Clean Water		enviro edu		\$80,000/ye			
		30% by 2025				-May not get expected	Institute		grants		ar			
		-increase CREP sign up by 30%				outcome								
		by 2025					-Ag		-PennVest					
							community		National					
									-National					
							-Meaningful		Association					
							Watershed		of					
							Education		Conservation					
							Experience		Districts					
							(MWEE)		(NACD)					
									technical					
							-B-Wet		assistance					
							Farm Bureau		grant to hire					
									people for					
							-Colleges		expanding					
							-Stormwater		technical					
							Research		assistance					
							(University of							
							New							
							Hampshire as							
							a resource)							
							-Other							
							counties are							
							also working							
							on the same							
							efforts							
			I				1							1

Phase	3 Watershed	Implementation Plan (WIP)) Planning and P	rogress Tem	plate: Lyd	coming County								
		Green - action has been cor	npleted or is moving	forward as pla	nned <u>Yell</u>	ow - action has encountered	minor obstacles	Red - action	has not been take	en or has enc	ountered a serio	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resource	s <u>Available</u>			Resources	Needed	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
	<u> </u>				1	23			<u> </u>			l		
	Т	1	1			T	-Fish and Boat		T T		1			
		-Align similar efforts with CAP	-State agencies	-	-2025	-Collaboration takes time	has staff to work with technical assistance -Social media				-Need a way	-Funding for		
		(like watershed organizations) to maximize work being done by leveraging efforts and funding sources -2 collaborating meetings per year, or more if needed -Enhance the capacity of	-County departments -watershed organizations -Municipal	Countywide	and beyond	and person power -Staff turnover can impact continuity and momentum -Keeping contact lists accurate	-Other counties are also working on the same efforts -Current contact lists				to make long-term collaboratio n easier without needing more meetings – Explore	staff – DEP -Technology and admin support - DEP		
2.6	Expand interagency collaboration	watershed associations by sharing each other's media content, including them in planning efforts, encourage project implementation on the watershed level to emphasize co-benefits/diversifying membership	-Colleges -Game Commission partnership (Rodney Mee)			-Keeping project lists upto-date -Collab will be easier with orgs with staff rather than those that are all volunteer	are available (Lycoming County and LCCD)				possibility of using drive sharing platforms like share point, Google docs, or something			
		-Reduce duplicative work and leverage existing work -ID ways to streamline permit processes -Ensure funding/technical resources are shared to municipalities/authorities/other s when the county learns about them	-Grassroots organizations -Pine Creek Watershed Council -Trout Unlimited -Loyalsock Creek Watershed Association								similar -Staff time specifically allocated to collaboratio n - Edu/outrea ch and collaboratio n staff - \$80,000/ye			

ar

Phase	3 Watershed	Implementation Plan (WIP)) Planning and Pi	ogress Tem	plate: Lyc	oming County								
		Green - action has been cor	mpleted or is moving	forward as pla	nned <u>Yell</u>	action has encountered	minor obstacles	Red - action h	as not been tak	en or has enco	untered a serio	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Resources Source	<u>Available</u> Financial	Source	Technical	Resources Suggested	<u>Needed</u> Financial	Suggested
												Source		Source
						24								
2.7	Reduce fertilizer use School	-improved outreach and education for zoning officers, muni engineers, planning commission, local muni officials -Have regularly-scheduled meetings with DEP and others about project permits —one meeting per year -Begin outreach campaigns -Education of alternative fertilizers -Work with school districts on soil and water testing	-Lycoming Creek Watershed Association -Muncy Creek Watershed Association -Larrys Creek Watershed Association -Lycoming Audubon Society -Middle Susq Riverkeeper -SGP -Other counties -Northcentral PA Conservancy -Penn State Extension -LCCD -Lycoming County	- Countywide	-2025 and beyond	-Target farms/areas close to streams -Need regular outreach using multiple and diverse platforms	-Existing interest in water testing at Montgomery High School for Black Hole		-PACD mini grant for soil testing/samp ling -Trout Unlimited		-Personnel (1-2 people to do sampling) from LCCD -Personnel	-Funding for staff - DEP	-Grant funding for soil tests - 5,000 tests at \$9/test - \$45,000/y	-DEP
	outreach	Son and water testing	-Penn State Master Gardeners			-Efforts may not increase program interest or elicit behavior change	Creek and White Deer Hole Creek (Chris Ulrich)		and Fish and Boat Commission grant for multiple		to create/esta blish soil baseline		ear	

		Green - action has been co	ompleted or is moving fo	orward as plan	nned <u>Yell</u>	- action has encountered r	minor obstacles	Red - action	has not been taken or has e	ncountered a serious barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	s <u>Available</u>	Resource	es <u>Needed</u>	
							Technical	Source	Financial Source	Technical Suggested Source	Financial	Suggested Source
						25						
									projects https://cold waterheritag e.org/ -County enviro funding -DCNR Environment al Education grant -PennVest	-Have NRCS and USDA come to county and other entities to re- emphasize their programs and projects and resources -Funding for edu/outrea ch staff and grant coordinator - \$160,000/y ear -Funding for professiona I marketing - \$80,000/ye ar		
2.8	Reduce fertilizer use Landowner outreach	-Begin outreach campaigns -Education of alternative fertilizers -Testing samples by 1 or 2 people to have consistency	-Penn State Extension -LCCD -Lycoming County	- Countywide	-2025 and beyond	-Target farms/areas close to streams -Landowner engagement; managing landowner concerns	-Lycoming County mapping "Hot spots" maps -DEP — printing materials (e.g.		-PACD mini grant for soil testing/samp ling -Trout Unlimited and Fish and Boat	-Personnel (1-2 people to do sampling) from LCCD -Personnel to create/esta	-Grant funding for soil tests - 5,000 tests at \$9/test - \$45,000/y ear	

Phase	3 Watershed	Implementation Plan (WIP)) Planning and Pi	ogress Tem	plate: Lyd	coming County								
		Green - action has been cor	mpleted or is moving	forward as pla	nned <u>Yell</u>	- action has encountered	minor obstacles	Red - action	has not been take	n or has enc	ountered a serio	us barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Resource:	S <u>Available</u> Financial	Source	Technical	Resources Suggested	Needed Financial	Suggested
							recimical	Source	Filialicial	Source	Technical	Source	Filialicial	Source
			1		ı	26							1	
		-Develop soil sample baseline	-Penn State			-Need regular outreach	Guidelines for		Commission		blish soil			<u> </u>
		for small and large farms	Master Gardeners			using multiple and diverse	Maintaining		grant for		baseline			
						platforms	Streams in		multiple					
		-Expanded soil testing -Free soil				'	Your		projects		-Have NRCS			
		tests to landowners during				-Efforts may not increase	Communities)		https://cold		and USDA			
		certain times of the year				program interest or elicit	,		waterheritag e.org/		come to			
		•				behavior change	-Penn State		<u>e.org/</u>		county and			
		-Showcase documents for					Extension		-County		other			
		marketing (demonstrating					landowner		enviro		entities to			
		before and after)					webinar series		funding		re-			
		·					on fertilizer		DCND		emphasize			
		-Reduce fertilizer use by 10% by					alternatives		-DCNR Environment		their			
		2025					and		al Education		programs			
							application		grant		and projects			
							practices; soil				and			
							testing		-PennVest		resources			
							-USGS for				-Funding for			
							groundwater				edu/outrea ch staff and			
							data				grant			
											coordinator			
							-DEP outreach				-			
							materials				\$160,000/y			
											ear			
							-RC&D				-Funding for			
							resources/out				professiona			
							reach/materia				I marketing			
							ls/technical				-			
							assistance				\$80,000/ye			
							-"Be More				ar			
							Floridian"							
							marketing							
							campaign as a							
							case study							
							,							

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template: Lycoming County **Green** - action has been completed or is moving forward as planned - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier Responsible Description Performance Target(s) Geographic **Potential Implementation Action Expected** Party(ies) and Resources Available Resources Needed Location Timeline **Challenges or Partnerships** Recommendations Technical Technical Source **Financial** Suggested **Financial** Suggested Source Source Source

							-SRBC data					
2.9	Reduce fertilizer use Business/Non profit outreach	-Begin outreach campaigns -Education of alternative fertilizers -Testing samples by 1 or 2 people to have consistency -Develop soil sample baseline for small and large farms -Reach out to corporations and other businesses (Comcast Cares Day example) -Use "Good Water, Good Coffee/Beer/Wine" campaign examples -Showcase documents for marketing (demonstrating before and after) -Reduce fertilizer use by 10% by 2025	-Penn State Extension -LCCD -Lycoming County -Penn State Master Gardeners	- Countywide	-2025 and beyond	-Target farms/areas close to streams -Speak to the "bottom line" -Need regular outreach using multiple and diverse platforms -Leverage private businesses to showcase forward-thinking projects and ideas -Efforts may not increase program interest or elicit behavior change	-SRBC data -USGS for groundwater data -DEP outreach materials -RC&D resources/out reach/materia ls/technical assistance -"Be More Floridian" marketing campaign as a case study -SRBC data	-PACD mini grant for soil testing/samp ling -Trout Unlimited and Fish and Boat Commission grant for multiple projects https://cold waterheritag e.org/ -County enviro funding -DCNR Environment al Education grant -PennVest	-Personnel (1-2 people to do sampling) from LCCD -Personnel to create/esta blish soil baseline -Have NRCS and USDA come to county and other entities to re- emphasize their programs and projects and resources -Funding for edu/outrea ch staff and grant coordinator - \$160,000/y	-Funding for staff - DEP	-Grant funding for soil tests - 5,000 tests at \$9/test - \$45,000/y ear	-DEP
									\$160,000/y ear -Funding for professiona			

		Implementation Plan (WIP) Green - action has been cor				ow - action has encountered	minor obstacles	Red - action	has not been take	n or has enc	ountered a serio	ous barrier		
							imior obstacles	<u>iteu</u> detion i	nas not been take	iii oi nas cino				
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resources	<u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source
						28								
											I marketing			
											-			
											\$80,000/ye ar			
											ai			
В.	Research and	Training	1	1	1	1	1	<u> </u>	1			l	<u> </u>	
		-Improve onboarding process	-Lycoming County	-	-2025	-Administrative challenges	-LCCD —				-	-DEP		
		for minor stormwater plan		Countywide	and		delegated				Stormwater			
		review	-Muni partners		beyond	-Muni coordination	duties				policy			
											expert			
		-Define further who is qualified				-Cost to landowners for	-DEP – 167				(engineer			
		to do minor stormwater				small projects	plans, MS4				possibly) –			
		reviews/give guidance to					plans				\$10 million			
		landowner									per year for			
							-Personnel				engineering			
		-All entities to come up with					(development							
		coordinated process for					services				- Ctamman atam			
		simplification					supervisor; subdivision				Stormwater review			
	Improve	-Pre-designed stormwater					and land				training			
2.11	County	controls for landowners					development				training			
	stormwater	controls for fundowners					admin)				-Training for			
	training	-Education to landowners									ВМР			
		(implementing building permits					-Stormwater				inspections			
		example) as integral to					inspection				(MS4 and			
		stormwater planning - check					training is				non-MS4)			
		with municipalities especially					available							
		during subdivision process									-Training on			
							-Clean Water				ВМР			
							Institute				constructio			
											n			
											-Training on			
											amended			
											soils			

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template: Lycoming County **Green** - action has been completed or is moving forward as planned - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier Responsible Description Performance Target(s) Geographic **Potential Implementation Action** Expected **Challenges or** Party(ies) and Resources Available Resources Needed Location Timeline Partnerships Recommendations Technical Technical Source **Financial** Suggested **Financial** Suggested Source Source Source

Priori	ty Initiative 3	: Reporting and Tracking (t	these projects hel	p improve re	porting sy	stems and cross-sector e	efficiency)				
		-ID shovel-ready projects	-Lycoming County	-	-2021	-Privacy concerns	-Lycoming		-Need cross-		
				Countywide			County staff		platform		
		-Collect projects and data from	-LCCD		-Update	-Incomplete or unavailable			data		
		multiple entities			continuo	data	-Data from		consistency		
			-USGS		usly		LCCD				
	Increase	-Ensure partner data is updated				-Collaboration takes a lot			-Need to		
	planning	at least every 6 months and	-Schools for			of time	-Practice		standardize		
	efficiency,	uploaded onto GIS after	internships				Keeper data		the data		
	, ,	updated				-Limited administrative			and deliver		
	reduce duplicative					capacity	-Get interns		it to the		
	work, and to	-Ensure partners and data					for this type		public and		
	better target	contributors agree on a				-Communication and	of work (reach		others in an		
3.1	and	database structure format and				coordination among	out to Bloom		innovative,		
	coordinate	attribute data classification in				various entities can be	for interns,		captivating,		
		order to better standardize the				challenging	Lyco, Penn,		and user-		
	projects	existing/future data					others)		friendly		
	-Establish					-Continually updating the			fashion (can		
	project map at					map/data	-Penn State		use interns		
	county level						Capstone		for this)		
	county level						Projects				
									-May need		
									data		
									organization		
									/GIS		
									training		
	Increase	-House compiled data in one	-Lycoming County	-	-2025	-Privacy concerns	-Lycoming	-PPL	-Need cross-	-DEP	
	planning	place		Countywide	and		County GIS	Foundation	platform		
	efficiency,		-Multiple entities		beyond	-Incomplete or unavailable	and staff		data		
3.2	reduce	-Map MS4 projects				data			consistency		
	duplicative						-Chesapeake				
	work, and to	-Update stormwater maps				-Collaboration takes a lot	Conservancy		-Need to		
	better target					of time	data		standardize		

Phase	3 Watershed	Implementation Plan (WIP)) Planning and P	rogress Tem	plate: Lyd	oming County								
		<u>Green</u> - action has been cor	mpleted or is moving	forward as pla	nned <u>Yell</u>	w - action has encountered	minor obstacles	Red - action l	has not been taker	or has enco	ountered a serio	us barrier		
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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
						30								
	and	-Reduce duplicative data									the data			
	coordinate					-Limited administrative	-DCNR River				and deliver			
	projects	-Evaluate and integrate				capacity	Conservation				it to the			
		equitable distribution of					Plan				public and			
	-Improve	community/environmental				-Communication and					others in an			
	project	assets and "disassets"				coordination among	-Trout				innovative,			
	tracking					various entities can be	Unlimited				captivating,			
		-Track previous projects (e.g.				challenging	Coldwater				and user-			
		streamside restoration)					Heritage				friendly			
						-Continually updating the	Grant				fashion (can			
		-Track LCCD and NRCS projects				map/data	Program				use interns			
						.,,,,,,,,					for this)			
		-Track projects identified in									100 0000			
		plans									-May need			
		p.a.is									data			
		-County and Multi-Municipal									organization			
		Comprehensive Plans									/GIS			
		Comprehensive rians									training			
		-West Branch Rivers									training			
		Conservation Plan update												
		-State Water Plan												
		-Hazard Mitigation Plan												
		-Greenways and Open Space												
		-Chesapeake Bay Pollutant Reduction Plans												
		-Pine Creek Watershed Rivers Conservation plan												

Phase	e 3 Watershed	Implementation Plan (WIP)) Planning and Pr	ogress Tem	plate: Lyc	coming County								
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Action														
#			Party(ies) and	Location	Timeline	Challenges or	Resources <u>Available</u>					Resources	<u>Needed</u>	
			Partnerships			Recommendations								
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source

		-Establish database and maintain 4 years of consistent tracking									
		-Have better tracking/ID of	-LCCD	-	-2025	-Privacy concerns	-Lycoming		-Need cross-	-DEP	
		where the wetlands are located		Countywide	and		County GIS		platform		
		IData walk a da that aa sii a a a	-Lycoming County		beyond	-Incomplete or unavailable	and staff		data		
		-ID watersheds that experience natural erosion	-Chesapeake			data			consistency		
		natural erosion	Conservancy				-Chesapeake				
	Increase	-Establish database of county	Conscivancy			-Collaboration takes a lot	Conservancy		-Need to		
	planning	projects by having a staff	-Trout Unlimited			of time	data		standardize		
	efficiency,	member or intern put BMPs into							the data		
	reduce	practice keeper from all	-FWS			-Limited administrative	-DCNR River		and deliver		
	duplicative	different plans – need one	-DEP			capacity	Conservation		it to the		
	work, and to	central person to input all BMPs	-DEP				Plan		public and		
	better target	and report in order to ensure	-Lycoming College			-Communication and			others in an		
3.3	and	more efficient planning				coordination among	-Trout		innovative,		
	coordinate					various entities can be	Unlimited		captivating,		
	projects	-Map every farm and put				challenging	Coldwater		and user-		
		projects into the map					Heritage		friendly		
	-	projecto mas are map				-Continually updating the	Grant		fashion (can		
	Watershed/w	-Establish database and				map/data	Program		use interns		
	etland	maintain 4 years of consistent							for this)		
	tracking	tracking									
									-May need		
									data		
									organization		
									/GIS		
									training		
		- Maintain existing list to ensure	-LCCD	-	-2025	-Contacts could change	-A current list		-	-DEP	
		effective and efficient outreach		Countywide	and	frequently	already exists		Edu/outrea		
	Maintain an	for upcoming incentives and			beyond		(LCCD)		ch and		
3.4	ag operator	programs				-Maintaining list can be			collaboratio		
	list					time consuming			n staff -		
									\$80,000/ye		
									ar		

		Green - action has been com	pleted or is moving	forward as plai	nned <u>Yell</u>	···· - action has encountered r	ninor obstacles	Red - action l	nas not been tak	en or has enc	ountered a serio	ous barrier		
ction #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resources	Needed	
			·				Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggest
		I				32								
3.5	Turf field Nutrient Management - Tracking	-Implement a documentation program for commercial and homeowner nutrient applications in developed lands -Quantify artificial turf acres – ID	-LCCD -Lycoming County	- Countywide	-2025 and beyond	-Contacts could change frequently -Maintaining list can be time consuming					Edu/outrea ch and collaboratio n staff - \$80,000/ye	-DEP		
• . •		data									ar			
riori	ty Initiative 4	 Programmatic, Policy, an Expand pervious surfaces by 	d Regulatory Cha -Lycoming County	nges (these _l	projects in	clude high-level policy ch -Ensure that "heat islands"	nanges that sys -Many case	stematically 	help reduce T -CAP Credits	MDL's)	-Research		-Waivers	-DEP
1.1	Reassess parking requirements in ordinances to reduce the amount of impervious surface	incentivizing pervious pavement on new development -Rehabilitate oversized/underused parking lots -Ensure municipal ordinances are not conflicting -5 acre reduction of impervious surfaces by 2028	-Municipalities	Countywide	Continuo us -Update ordinanc es - 2023	are mitigated with plantings -Resistance from developers -Landowner buy-in -Ordinances limit -Expense -Cost (engineering and design) -BMP Certification -Consider Complete Streets Standards	studies and examples exist -Rethinking Parking Requirements Using Drone Imagery: https://docs.google.com/presentation/d/16yqwMGIcIRNVUi5KyATDC -A509uSYI5pMOiGCLoKAbw/edit#slide=id.g47c21f69ac		(EPA)		on pavers (see University of New Hampshire) -Need additional case studies		for using green infrastruct ure or other pervious system to offset cost of pervious pavement (grants, tax waivers, design and engineerin g assistance) -\$7/sq foot pervious pavement -\$2 million	
4.2	Reassess stormwater ordinances	-Retrofit existing stormwater facilities/retrofit parking lot to add newer stormwater	-Lycoming County -Municipalities	- Countywide	- Continuo us	-Cost (engineering and design)	0_6		-CAP Credits (EPA)				-Funding assistance/incentives	-DEP

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template: Lycoming County																
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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source		
		mitigation (plantings, pervious pavement, green roof, etc) - Mitigating clear cutting impacts from solar farms with buffers -Integrate soil amendment and restoration into stormwater requirements -Ensure municipal ordinances are not conflicting -Integrate non-structural stormwater management, like stormwater easememnts (grass/forested buffers) -Dry well option for residential development -1 acre treated by 2025 -10 acres forested buffers by 2025			-Update ordinanc es - 2023				-NRCS funding and incentives				implement ation and engineerin g -\$10 million/ye ar			
		-10 acres of grass buffers by 2025 -10 acres of new amended soils by 2025 ("Stormwater Performance Standard-Runoff Reduction")														
4.3	Stormwater Ordinance update (Act 167)	-Simplification of major/minor stormwater plan process;	-Lycoming County -LCCD – delegated duties	Countywide	- Continuo us	-Administrative challenges -Muni coordination	-Lycoming County staff		-Lycoming County funding		- Stormwater policy expert					

		<u>Green</u> - action has been cor	mpleted or is moving	forward as plann	ned <u>Yell</u>	ow - action has encountered	minor obstacles	Red - action l	nas not been tak	en or has enc	ountered a serio	ous barrier		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships			Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>		Resources <u>Needed</u>			
			, , , , , , , , , , , , , , , , , , ,				Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested
												Source		Source
						34								
1		-Get waiver/special				-Can quickly become costly	-Stormwater				(engineer			
		exception/modification process	-DEP – 167 plans,			to landowners for small	inspection				possibly)			
		built into the ordinance (e.g. If	MS4 plans			projects and single family	training is							
		there are new and innovative				homes to comply with	available				_			
		ways to address stormwater	-All entities to			stormwater requirements					Stormwater			
		that the ordinance didn't	come up with			·					review			
		address; DEP form that says, "is	coordinated			-Educate landowners on					training			
		there consistency without	process for			process								
		waiver")	simplification								-Pre-			
											designed			
		-Review process for possible	-Muni partners								stormwater			
		streamlining	·								controls for			
											landowners			
											-Education			
											to			
											landowners			
											(implementi			
											ng building			
											permits			
											example) as			
											integral to			
											stormwater			
											planning –			
											check with			
											municipaliti			
											es especially			
											during			
											subdivision			
											process			
	Integrate	-Provide technical assistance to	-Lycoming County		-2025									
	Hazard	municipalities		Countywide	and									
4.4	Mitigation		-Municipalities		beyond									
,	Plan Update													

		<u>Green</u> - action has been con	npleted or is moving	forward as pla	nned <u>Yell</u>	ow - action has encountered r	minor obstacles	Red - action	has not been taken or has en	countered a serie	ous barrier			
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	-		Resource	s <u>Available</u>		Resources <u>Needed</u>			
							Technical	Source	Financial Source	Technical	Suggested Source	Financial	Suggested Source	
						35	1	1		l	1			
		-Update/adopt and enforce floodplain management ordinances -streambank stabilization/erosion prevention -Increase community outreach/edu -Work with watershed organizations to develop a communication strategy for citizens/visitors												
4.5	Continue MS4 Programs	-Collaborate/coordinate with MS4 communities to ensure work is not duplicated/competing -Ensure funding/technical resources are shared to municipalities/authorities/other s when the county learns about them -Allow MS4 projects to be located outside of urbanized area -Streamline permitting process -Improve mapping and standardize data collection and management	-Lycoming County -Municipalities	- Countywide	-2025 and beyond	-Collaboration and coordination to ensure CAP and MS4 projects are not duplicated and are cobeneficial -Provide more training on engineering, inspections, construction, and maintenance to MS4s	-Data and mapping from Lycoming County staff	-MS4s -Lycoming County	-Growing Greener -NFWF	-GPS mapping equipment - \$10,000	-DEP	-Funding for implement ation and maintenan ce - \$2.5 mill/year	-DEP	
4.6	Improve planning	-Coordinate regulations and outcomes	-Regulatory entities (LCCD, DEP, PCD, etc.)	- Countywide	-2025 and beyond	-Communication (agency and entity coordination), data availability	-Clean Water Institute		-County enviro funding					

	Green - action has been com	pleted or is moving	forward as pla	nned <u>Yall</u>	عدد - action has encountered ا	minor obstacles	Red - action	has not been tak	en or has enco	ountered a serio	us barrier		
ction Description #	Performance Target(s)	Responsible Geographic Party(ies) and Location Partnerships	Geographic Location	Expected Timeline		Resources <u>Available</u>			Resources <u>Needed</u>				
						Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
1	,		1		36		1	1					1
effectiveness	-Integrate rapid stream de-					-Chesapeake							
and efficiency	listing planning strategy					Conservancy (for rapid		-PennVest					
	-ID potential to re-establish					stream de-							
	county-level stormwater					listing)							
	coordinator to work with MS4 municipalities												
	-Coordinate with updated State												
	Water Plan (currently being updated)												
	-Integrative water resource planning												

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.

Phase 3	Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template: Lycoming County														
Green - action has been completed or is moving forward as planned Yollow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier															
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential Implementation									
#			Party(ies) and	Location	Timeline	Challenges or	Resources <u>Available</u>				Resources Needed				
			Partnerships			Recommendations									
							Technical	Source	Financial	Source	Technical	Suggested	Financial	Suggested	
												Source		Source	

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Geographic Location = Where. This field identifies the geographic range 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).