

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

1

1.1	Increase cover crop BMPs	<p>-8,000 additional acres by 2025 (estimated \$40/acre)</p> <p>-Have a supplemental cover crop sign up/survey at the conservation district to give more nuanced data than transect survey (Currently have 4000 acres reported in cover crop -can double that number with the supplemental sign up). This sign up could act like a local contract like is done for federal contracts.</p> <p>-2000 of the 8000 acres are from Growing Greener grant</p>	<p>-LCCD</p> <p>-FSA</p> <p>-NRCS</p> <p>-Lycoming County</p>	-Countywide	-2025 and beyond	<p>-Not getting expected ROI or outcome</p> <p>-Buy-in from farmers may be limited – need more participation from landowners</p> <p>-Would like to have location data – X% of cover cropping is coming from X location, but not a lot from X location. We currently have no other place that there’s a number for cover crop recording because every cover crop reported is in the lowest category as wheat in transect survey</p> <p>-Need more nuanced species for cover crop in sign up</p> <p>-Transect survey should have additional species, and should also consider existing cover crops that are located further from the road (current reporting only identifies cover crops that are a short distance from the road, and in many instances cover crops are</p>	<p>-County staff</p> <p>-Equipment – Green Drill</p> <p>-Operator list</p>	<p>-Growing Greener: Tiered funding for new and experienced cover croppers (multi-species) reimbursement for 3 years in a row</p> <p>-DEP Small Business Advantage grants</p> <p>- Use the Soil Health Enhancement Reimbursement Program through Columbia County Conservation District as a model</p>	<p>-Acquire baseline cover crop numbers to supplement transect survey</p> <p>- 1 clerical staff position for collecting cover crop data - \$80,000/year</p> <p>-1 technical staff - \$80,000/year</p>	<p>-More incentive s to participate (\$40/acre) \$320,000</p> <p>-2 additional vehicles - \$100,000</p>	<p>-(11/22) Growing Greener and CAP Implementation Grant applied to, funding 3,000 additional acres</p>
-----	--------------------------	--	---	-------------	------------------	---	--	---	---	--	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

2

						one or two crop rows back from the road that is on the survey route)					
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		-LCCD staff		-2 technical staff -\$160,000/year		- (8/22) Staff time is limited, but some communication with local farmers who have expressed interest has been initiated
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 Growing Greener grants totaling \$245,000	-2 technical staff -\$160,000/year -1 grant manager/coordinator - \$80,000/year	-DEP	- (8/22) About half of expected LCCD ACAP funding will go to Animal Waste Management plans

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

3

1.6	Increase rotational /prescribed 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/year		- (8/22) Landowners identified, designs in progress
1.7	Increase no-till/conservation 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/year	-Funding for equipment - DEP	- (8/22) New 10' no till drill acquired for renting out - One new vehicle acquired
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 program --give a credit/incentive/money to plant a buffer to keep crops a	-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	-FSA data -10 Million Trees program -Chesapeake Conservancy – buffer maintenance -Live Stake Collaborative: hiring personnel in the Fall 2021 (increased capacity) -LCCD Nature Trail for cuttings (live stakes)	-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 - \$120,000 total	-Funding for program - DEP	- (11/22) 4170 LCCD distributed seedlings planted through the Keystone 10 Million Tree Plantings project over 33 properties

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

4

		certain distance away from roads, forestlands, or streams -Up to 500 acres of non-hay-producing grass buffer/year -Up to 3,500 acres of hay-producing pasture/year				-Land use could change to forest land instead of agriculture after a certain period of time due to tree growth -Buffers do not get counted for depth in CAST Model -Make sure to put a turn in the field border -Allow GP6 ag crossing in special protection watersheds	-NEIN data -Technical outreach/Incentive program through DCNR buffer program and CREP		-1 technical staff -\$80,000/yr -1 outreach staff -\$80,000/yr		
1.9	Ag Land Nutrient Management - Basic Nutrient Management	-Write manure management plans for non-CAOs and non-CAFOs -21,700 acres by 2025 (~200 management plans) -Track nitrogen and phosphorus in PracticeKeeper (core N and P, placement, rate, and timing) -8,000 acres of basic nutrient management tracking by 2025	-LCCD -Lycoming County -NRCS	-Countywide	-2025 and beyond		-Lycoming County staff -Data from LCCD -Centre County received grants for plan writing – look to them as an example		-Case studies to showcase success -Technical outreach -2 staff to write the manure management plans - \$160,000/year		- (11/22) 18 manure management plans covering 599.5 acres and 21 IDNS plans covering 653.4 acres written by LCCD from Jan-Nov of 2022
1.11	Implement NRCS Projects	-Agriculture Stormwater Management	-NRCS	-Countywide	-2025 and beyond						- (11/22) No progress

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

6

		Grass Buffer -117.2 acres by 2025									
		Conservation Planning -1,500 acres/year									

A.

1.13	Turf field Nutrient Management	-Implement a documentation program for commercial and homeowner nutrient applications in developed lands -Support fertilizer legislation -Quantify artificial turf acres – ID data -Golf course improvements (use BMPs for PA Golf Courses Guide) -White Deer Golf Course -Williamsport Country Club -Convert turf fields and lawns to meadow/riparian	-LCCD -Lycoming County -NRCS	-Little League -Churches -Hospitals -Cemeteries -School Districts -Golf courses -Colleges	-2025 and beyond	-Landowner buy-in -Education of responsible parties -Coordination between partners -Limited by plant height (don't want them to get too high on golf courses) -Maintenance -Landowners may be limited in their scope of interest -Focus on benefits of managing land holistically/big-picture to increase quality of experience -Better management with BMPs would lead to less costly maintenance	-Lycoming County staff -Data from LCCD -DCNR Lawn Conversion Program - Penn State Extension soil testing resources -Master naturalists/gardener program - Americore for educational outreach	-DCNR Environmental Education grant -DCNR Lawn Conversion program -PennVest	-Having solutions to offset fertilizer -More soil tests -1 Edu/outreach staff -\$80,000/yr	-DEP - Extension	- (8/22) No progress, staff constraints
-------------	--------------------------------	--	--	---	------------------	---	---	---	--	-------------------------	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		- 20 acres of turf conversion by 2025				-Ensure local/county ordinances do not conflict with goal						
1.14	Green infrastructure, buffers, and plantings	<ul style="list-style-type: none"> -Ensure projects are equitably distributed and address environmental justice issues -Improve stormwater management by implementing and expanding green infrastructure: <ul style="list-style-type: none"> - Street trees -Bioswales -Rain gardens -Plantings along local streets and bordering parking lots to capture and filter stormwater -Establish Street Tree Committee -Do plantings on hospital campuses -Improve and increase trails/ID ways to improve the "Pathways to Health" 	<ul style="list-style-type: none"> -Flood buyout plantings -FEMA -Local Munis -PEMA -Airport - Municipalities -Lycoming County -LCCD -Businesses and campuses -Golf courses - Susquehann 	-Countywide	-2025 and beyond	<ul style="list-style-type: none"> -Expand funding for targeted green infrastructure projects that are located in low-income/minority neighborhoods (e.g. Targeted Outreach for Green Infrastructure (TOGI)) -Resistance from developers -Expense -Maintenance - Look at what properties (authorities and muni land ownership) exist for long-term plantings for consistency of ownership -If we rely on college interns, the internships may not line up with when maintenance needs are highest -Training interns long term would be laborious and inconsistent -Landowners would not feel ownership over plantings if we use interns to maintain the planting 	<ul style="list-style-type: none"> -Landscapers -Small businesses -Chesapeake Conservancy data available -Penn State Capstone Project for maintenance (internship) - Universities/Colleges for internship for maintenance -FSA data -10 Million Trees program -Chesapeake Conservancy – buffer maintenance -Live Stake Collaborative: hiring personnel in the Fall 2021 (increased capacity) 	<ul style="list-style-type: none"> -NFWF -DCNR C2P2 grant -Growing Greener -TreeVitalize -DEP -Private sector grants -Keep Pennsylvania Beautiful Community Improvement Grants (Healing the Planet Grant Program) -PennVest -PPL Community Roots 	<ul style="list-style-type: none"> -Technical assistance -Maintenance -Penn State Capstone Project for maintenance (internship) - Universities/Coll eges for internship for maintenance -1 Lycoming County Planning staff to implement and run green infrastructure program - \$80,000/year -1 grant coordinator for Lycoming County Planning and LCCD - \$80,000/year 	<ul style="list-style-type: none"> -Funding for maintenance and programs - DEP 	<ul style="list-style-type: none"> - (8/22) 6 floodplain buyouts completed in 2022 - (11/22) Awarded \$25,000 Nature Based Solution grant to integrate Environmental considerations into the County Hazard Plan 	

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<ul style="list-style-type: none"> -Expand TreeVitalize program in County -Plant buffers and basins on golf courses (use BMPs for PA Golf Courses Guide) <ul style="list-style-type: none"> -White Deer Golf Course riparian buffers/vegetated plantings -Remove earthen berm from White Deer Golf Course (county may own that land) -Continued maintenance in floodplain restoration site at White Deer -Williamsport Country Club -Involve Lycoming County Little League Network to improve multiple potential planting sites on turf fields -Plantings on flood buyout lots -Expand streambank plantings -100 acres of forest buffers 	<ul style="list-style-type: none"> a Greenway Partnership (SGP) -DCED -DCNR 			<ul style="list-style-type: none"> -Need buy-in and willingness to modify management practices -Landowners may be limited in their scope of interest (more specific to business owners) -Focus on benefits of managing land holistically/big-picture to increase quality of experience Flood buyout plantings: <ul style="list-style-type: none"> -FEMA regulations for plantings (Challenges with FEMA buyout lots with needed technical studies) -Chapter 106 studies -Lots of permits would be needed to do plantings -Need revision to the regulation – allowing native tree and shrub plantings on flood buyout lots - would allow us to do more nutrient reduction BMPs 	<ul style="list-style-type: none"> -LCCD Nature Trail for cuttings (live stakes) 			<ul style="list-style-type: none"> -Funding for edu/outreach staff and grant coordinator -\$80,000/year 		
--	--	--	--	--	--	--	---	--	--	---	--	--

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<p>-10 acres of rain gardens</p> <p>-30 acres of green infrastructure (“filter strip runoff reduction, filter strip stormwater treatment, filtering practices”)</p> <p>-200 acres of tree planting</p> <p>-100 acres of wetland restoration</p> <p>-5 acres of bioswales</p>				Find out if MS4s are already working with TreeVitalize					
1.16	Dirt and Gravel Roads	<p>-LCCD Dirt and Gravel: -10 feet Driving Surface Aggregate + Raising the Roadbed by 2025</p> <p>-49 feet Driving Surface Aggregate with Outlets by 2025</p> <p>-1 foot Outlets only by 2025</p> <p>-Trout Unlimited (see also “Trout Unlimited Projects”, Action # 1.19):</p>	<p>-LCCD</p> <p>- Municipalities</p> <p>-Lycoming County</p>	-Countywide	-2025 and beyond	<p>- Possible lack of landowner buy in for right of way to allow BMP’s to work properly.</p> <p>- Lack of qualified workers</p> <p>-No way to increase funding from LCCD unless looking for other sources of funding (based on a specific formula)</p> <p>-Need availability to shale and cost of driving surface aggregate can affect number of projects</p> <p>- To improve existing practices allow Tar and Chip for current D&G</p>	<p>-LCCD staff</p> <p>-Trout unlimited technical assistance</p>	-LCCD funding for program (set number of dollars), but always get more inquiry than they have available	-2 technical staff - \$80,000/year	-Funding for equipment - DEP	- (8/22) Contracts for 5mil worth of construction projects signed this year w/LCCD funding

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<p>-Flocks Run Road, Dirt and Gravel Road Improvement - 4,235 feet</p> <p>-MS4 Dirt and Gravel (see also "Continue MS4 Projects", Action #4.5): -8.7 feet</p>				<p>roads to remove dust as a source of pollution.</p> <p>- Update prevailing wage requirements for D&G to the same as other municipal monies.</p> <p>- Have D&G and DEP compromise on matching stream crossing requirements for expedited reviews</p> <p>- Ability to obtain shale at a reasonable price for the quantities that would be needed, also obtain DSA that meets D&G spec at the quantities needed at a reasonable price.</p> <p>- D&G stream crossing requirements too extorted compared to DEP's requirements.</p> <p>- 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.</p>					
--	--	---	--	--	--	---	--	--	--	--	--

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

1.17	Stream/streambank restoration	<p>-Trout Unlimited (see also "Trout Unlimited Projects", Action # 1.19):</p> <ul style="list-style-type: none"> -Cemetery Road (Bear Run) -1,030 feet -Spring Garden Hunting Club (Blockhouse Creek) - 1,000 feet -Tiadaghton State Forest Chop and Drop (Browns Run) -1 mile of large wood additions. <p>-Northcentral Pa Conservancy projects (see also "Northcentral PA Conservancy projects", Action # 1.25):</p> <ul style="list-style-type: none"> -Plunketts Creek -2,000 feet <p>-Integrate rapid stream de-listing planning strategy</p>	<ul style="list-style-type: none"> -LCCD -Lycoming County -NRCS -US Fish and Wildlife -Extension partners - -Northcentral PA Conservancy -Trout Unlimited -Fish and boat commission -Watershed Associations - -Chesapeake Conservancy 	<ul style="list-style-type: none"> -Plunketts Creek -Little Pine Creek -Pine Run Watershed -Ag impaired streams focus 	-2025 and beyond	<ul style="list-style-type: none"> -Depth of streambank stabilization/restoration projects does not get counted in CAST Model -Landowners may need technical assistance, equipment, and education for project maintenance -Establish a regional work crew to help maintain projects/limit invasives -Have regional entity to work with the conservation 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 watersheds 	<ul style="list-style-type: none"> -Trout Unlimited technical assistance/engagement/projects -US Fish and Wildlife -Fish and Boat Commission -Chesapeake Conservancy data/rapid stream de-listing -Fish and boat commission has technical assistance 	<ul style="list-style-type: none"> -NFWF -Growing Greener -TreeVitalize -Trout Unlimited funding -Fish and boat commission has funding for staff 	<ul style="list-style-type: none"> -Case studies to showcase success -Technical assistance, equipment, and education to landowners for project maintenance (Penn State Extension has some resources) -Incentive program - Comprehensive Stream Assessment, temp monitoring 	<ul style="list-style-type: none"> -DEP -PA Fish and Boat Commission 	<p>- (11/22) Pheasants Forever managed Pine Run Restoration Phase 1 nearing completion, Phase 2 applied for CAP Implementation funding - (11/22) 28 streams under consideration for restoration by LCCD</p>
------	-------------------------------	--	---	---	------------------	---	---	---	--	--	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

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 -Lycoming College	-Countywide	-2025 and beyond		-Chesapeake Conservancy data -Trout Unlimited wetland delineations -Kip Starks from DEP -Mark Roberts from US FWS	-Lyco College Clean Water Institute -PennVest -Growing Greener			- (11/22) Lycoming College Biology Field Station project applied for CAP Implementation funding
1.19	Trout Unlimited Projects	-Cemetery Road (Bear Run) -1,030 feet -Spring Garden Hunting Club (Blockhouse Creek) - 1,000 feet -Tiadaghton State Forest Chop and Drop (Browns Run) -1 mile of large wood additions. -Flooks Run Road, Dirt and Gravel Road Improvement	-Trout Unlimited (Phil Thomas, Stream Resto Specialist, Philip.thomas@tu.org , 814-242-2696 and Jerry White, Tiadaghton Office, whitesgordonsettlers@	-Blockhouse Creek -Browns Run -Flooks Run Road -Bear Run		-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	-TU technical staff	-Existing funding from private foundation, NFWF, Growing Greener, and Cold Water Heritage	-1 Field staff who would split their time between Lycoming County projects and other regional projects outside of the county - \$80,000/year	-DEP	- (11/22) Spring Garden applied for CAP Implementation funding

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		- 4,235 feet	gmail.com , 570-662-2167)								
1.20	Sylvan Dell improvements	-200 trees planted -70 acre wetland and meadow -Implement future improvements (trails, wetlands, plantings)	-Currently owned by Armstrong Twp (will be new South Side Rec Authority ownership) -Ducks Unlimited	-South Williamsport	-2025 and beyond	-Funding -Could be challenges with wetland boardwalk because it is a regulated wetland -Public Access issues with railroad (Norfolk Southern)	-Brian Auman worked on a preliminary plan -Jim Dunn working on planning and stewardship -Plantings and wildlife boxes were established -Ducks Unlimited	-Variety of funding (planning, development, riparian buffers) -DCNR -NFWF -PennVest -DEP (Growing Greener) -First Community Foundation money -Look at DCNR funding list from Northwest region -Greenways, Trails, and Recreation grant (submitted for \$250,000 for 1.5 mile trail	-Needs planning (master planning/stewardship planning) -Funding for edu/outreach staff and grant coordinator - \$160,000/year	-Grant matches - DEP -Planning documents - DCNR -Soil testing - DEP/Extension -Volunteers - Clean Water Institute, TreeVitalize, Penn State -Trees - TreeVitalize, Penn State, 10 Million Trees	- (11/22) No progress

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

14

								expansion for Nature Trail at the Robert Porter Allen Natural Area)			
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	-Greenways, Trails, and Recreation grant -PennVest	-Coordination among multiple entities		-(11/22) No progress
1.22	Municipal park improvements	-South Williamsport park -Address stormwater (current swales retain water)	-Lycoming County	-South Williamsport -Hughesville -Lewis Twp	-Continuous	-Funding for maintenance -Some improvements are located in floodplain, which can cause permitting and logistics issues	-Local interest -K10 Partnership (10 million trees)	-DCNR funding for stormwater management with green infrastructure	-Funding for edu/outreach staff and grant coordinator - \$160,000/year	-DEP	-(8/22) Considering including watershed protection

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<ul style="list-style-type: none"> -Sensory garden -Brandon Park nature-based playground -New baseball field -6 acres of plantings by 2025 -East Lycoming Recreation Authority park <ul style="list-style-type: none"> -Wetland restoration and tree plantings at Lime Bluff to address drainage issues -55 acres of field conversion by 2025 -Trout Run park <ul style="list-style-type: none"> -10 acres of plantings by 2025 -Muncy Improvements <ul style="list-style-type: none"> -Green Street park -Improvements to Glade Run streambank and stream bed 	<ul style="list-style-type: none"> - Municipalities - Chamber of Commerce -DCED -DCNR 	<ul style="list-style-type: none"> -Muncy Borough -Montoursville Borough -Montgomery Borough -Williamsport -Loyalsock Twp 		<ul style="list-style-type: none"> -Some areas are wet and will need mosquito treatment -Ensure projects are equitable distributed 	<ul style="list-style-type: none"> -Muncy projects found in Muncy Recreation Sites Report, 2013; see pdf pg 33 and in Muncy Resiliency Plan, 2021 -Restoration plans– “Montoursville Borough Parks Master Plan Summary Report” by Brian Auman, 2014 -Projects in Muncy Resiliency Plan, 2021 	<ul style="list-style-type: none"> -Variety of funding (planning, development, riparian buffers) -NFWF -PennVest -DEP (Growing Greener) -First Community Foundation money -Look at DCNR funding list from Northwest region -Greenways, Trails, and Recreation grant -Borough funds, state grants, community fundraising 	<ul style="list-style-type: none"> -Parks may need updated/new planning/Site development/strategic plans -Volunteers (TreeVitalize) 		<p>in future mini grant application scoring after 2022 application review</p>
--	--	---	---	--	--	--	---	---	---	--	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		-Increase native plantings and removing invasive species									
1.23	Trail/Greenway projects	<p>-Miller's Run Greenway construction -Connect the park at North Way Rd to Williamsport RiverWalk -~1 mile of buffer</p> <p>-Susquehanna Greenway completion -Implement buffered river access points every 5 miles -Improve and expand River Towns program to advance green infrastructure and buffers -Reduce runoff by having forested buffer throughout Susquehanna River -Update SGP master plan to ensure effective and efficient planning -~36 miles of greenway (forest buffer) in Lycoming County (~430 acres of buffer)</p>	<p>-Loyalsock Twp Rec Department involvement -Susquehanna Greenway Partnership -Lycoming County -DCED -DCNR</p>	<p>-Loyalsock Twp -Countywide</p>	-Continuous	<p>-3rd street crossing for Miller's Run going over bridge is very expensive -Funding for maintenance -Crossing private property is challenging -Railroad and street crossings are very expensive and challenging -Coordination and continuity between multiple entities</p>	<p>-Discussed in 2017 Lycoming County Comprehensive Plan -Feasibility studies for West Branch Greenway routes exist</p>	<p>-NFWF -PennVest -DEP (Growing Greener) -First Community Foundation money -Look at DCNR funding list from Northwest region -Greenways, Trails, and Recreation grant</p>	<p>-Funding for edu/outreach staff and grant coordinator - \$160,000/year -Maps for existing and future trails -Legal assistance if easements are needed</p>	<p>-Funding for planning and technical assistance – DCNR, DEP -Funding for legal assistance – DEP -Funding for bridge upgrades – DEP, PennDOT -Funding for property acquisition – DEP, PennVest</p>	-(11/22) No progress

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

											-Funding for boat launches – DCNR, DEP -Funding for wayfinding – DCNR, DEP	
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	-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/inventory -DCNR data/inventory -Chesapeake Conservancy data	-DCNR -Riparian forest buffer plantings funding -Fish and Boat boating facilities grant -If in muni land, can use facilities improvements funding	-Engineering, design, and construction	-DEP	-(11/22) No progress	

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

			launches (Jersey Shore and Muncy Heritage Site) -DCNR					-Western PA Conservancy mini grants -Lumber Heritage mini grants			
1.25	Northcentral PA Conservancy projects	-Plunketts Creek stream restoration -2,000 feet of restoration -Implement future projects in the county (e.g. buffers)	- Northcentral PA Conservancy	-Plunketts Creek -Countywide	-2021 and beyond	-Depth of streambank stabilization/restoration projects does not get counted in CAST Model -Landowners may need technical assistance, equipment, and education for project maintenance -Establish a regional work crew to help maintain projects/limit invasives -Have regional entity to work with the conservation 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)	-Trout Unlimited technical assistance/engagement/projects -US Fish and Wildlife -Fish and Boat Commission -Chesapeake Conservancy data -Fish and boat commission has technical assistance	-NFWF (will not fund streambank restoration for this grant round - 2021) -Growing Greener -Trout Unlimited funding -Fish and boat commission has funding for staff	-Case studies to showcase success -Technical assistance, equipment, and education to landowners for project maintenance (Penn State Extension has some resources) -Incentive program - Comprehensive Stream Assessment, temp monitoring	-DEP -PA Fish and Boat Commission	- (11/22) No progress

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

20

A.

2.1	<p>Use County farm for education – BMP Tours</p> <p>-No-till</p> <p>-Cover Crops</p> <p>-Buffers</p> <p>-Nutrient management</p>	<p>-Hold tours for 4H, Future Farmers of America, Scout Troops, schools, etc.</p> <p>-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)</p> <p>-Calibrating manure spreaders (Bradford County has scales where you can weigh to gage how many tons went onto field)</p> <p>-600 additional acres of no-till by 2025</p> <p>-8,000 additional acres of cover crops by 2025</p>	<p>-LCCD</p> <p>-NRCS</p> <p>-Lycoming County</p>		-2025 and beyond	<p>-Efforts may not increase program interest or elicit behavior change</p> <p>-Can be multiple ideas of what “no-till” means among the farming community, which can lead to misunderstandings</p>	<p>-DEP for outreach/media platform/materials</p> <p>-Can expand on other agencies or organizations’ efforts</p>		<p>-Long-term ag peer group/committee for programmatic work</p> <p>-Hire education/outreach staff - \$80,000/year</p> <p>-Hire county-wide grant coordinator - \$80,000/year</p> <p>-LCCD forester position - \$80,000/year</p>		- (8/22) Rotational grazing education event held at LCCD farm
------------	--	---	---	--	------------------	--	--	--	---	--	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		-4,326.4 additional acres of buffers by 2025								-Marketing and rebranding position for county farm - \$80,000/year	
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	-US and PA No-Till Alliance funding -DEP Small Business Advantage grants -NRCS funding -Tiered funding for no-till (see above for potential model)		-Marketing and rebranding position for county farm - \$80,000/year	- (8/22) 2023 GG grant to be used for no till education
2.3	Attend events and increase in-person outreach to	-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 -Impact can be difficult to quantify	-Outreach materials -Clean Water Institute			- Education/outreach staff - \$80,000/year -More condensed/digestible public	- (8/22) LCCD County fair display

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

	increase BMPs	-Host meetings/workshops with farmers and forest landowners - Field days, demos at County Farm – 2 events at County Farm per year				-Efforts may not increase program interest or elicit behavior change			messaging materials		
2.4	Expand social media presence to increase BMPs	-LCCD Facebook and Instagram -Message on money saved from water quality improvements	-LCCD -Lycoming County	-Countywide	-2025 and beyond	-Ensure social media posts are available in multiple languages -Be strategic about programmatic co-benefits (Establish or expand incentive programs like cover crop or no-till) -Message the work that is being done in the County – we need to be our own ambassadors -Impact may be difficult to quantify	-Lots of social media strategies available		-Outreach and education staff - \$80,000/year		- (11/22) IT policy only recently allowed LCCD to start a Facebook page; social media accounts underway
2.5	Expand existing resources and technical assistance	-Permit processes and procedures-Provide permit assistance for landowners and developers -ID ways to streamline permit processes -Expand awareness of financial assistance	-FSA -NRCS -LCCD -DEP	-Countywide	-2025 and beyond	-Ensure resources are equitably distributed/available -Permits not being acquired or adhered to -Some projects do not get funding, and projects can “fall through the cracks”	-SRBC resources -Can expand on other agencies or organizations’ efforts -Ann Marie Baker – Duboistown Borough	-PennVest -NOAA funding -PPL Foundation -DEP environmental edu grants (due in Dec)	-Identify baseline for financial assistance and CREP sign up -Edu and outreach staff to help with permitting/collab /resources to		- (8/22) New funding through Ag Conservation Assistance Program - (8/22) Not enough

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<ul style="list-style-type: none"> -Expand FSA, CREP, sign up -Expand conservation planning, grazing plans, design, and engineering -increase financial assistance by 30% by 2025 -increase CREP sign up by 30% by 2025 				<ul style="list-style-type: none"> -Efforts may not increase program interest or elicit behavior change -Not enough landowner interest -May not get expected outcome 	<ul style="list-style-type: none"> -Mel Zimmerman – Lyco College, Clean Water Institute -Ag community -Meaningful Watershed Education Experience (MWEE) -B-Wet Farm Bureau -Colleges -Stormwater Research (University of New Hampshire as a resource) -Other counties are also working on the same efforts -Fish and Boat has staff to work with technical assistance 	<ul style="list-style-type: none"> -PA Assoc of Conservation Districts has enviro edu grants -PennVest -National Association of Conservation Districts (NACD) technical assistance grant to hire people for expanding technical assistance 	help people prep and review permits - \$80,000/year		<ul style="list-style-type: none"> staff to manage funding and special projects(Aug 2022) -(11/22) 50.43 Lunger easement for ag preservation in Franklin Township accomplished this year
2.6	Expand inter-agency collaboration	-Align similar efforts with CAP (like watershed organizations) to maximize work being done by leveraging efforts and funding sources -2	-State agencies	-Countywide	-2025 and beyond	<ul style="list-style-type: none"> -Collaboration takes time and person power -Staff turnover can impact continuity and momentum 	<ul style="list-style-type: none"> -Social media -Other counties are also working on the same efforts 		-Need a way to make long-term collaboration easier without needing more		<ul style="list-style-type: none"> -(8/22) Consistent meetings with watershed

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		<p>collaborating meetings per year, or more if needed</p> <p>-Enhance the capacity of 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</p> <p>-Reduce duplicative work and leverage existing work</p> <p>-ID ways to streamline permit processes</p> <p>-Ensure funding/technical resources are shared to municipalities/authorities/others when the county learns about them</p> <p>-improved outreach and education for zoning officers, muni engineers, planning commission, local muni officials</p>	<p>-County departments</p> <p>-watershed organizations</p> <p>-Municipal</p> <p>-Colleges</p> <p>-Game Commission partnership (Rodney Mee)</p> <p>-Grassroots organizations</p> <p>-Pine Creek Watershed Council</p> <p>-Trout Unlimited</p> <p>-Loyalsock Creek</p>			<p>-Keeping contact lists accurate</p> <p>-Keeping project lists up-to-date</p> <p>-Collab will be easier with orgs with staff rather than those that are all volunteer</p>	<p>-Current contact lists are available (Lycoming County and LCCD)</p>		<p>meetings – Explore possibility of using drive sharing platforms like share point, Google docs, or something similar</p> <p>-Staff time specifically allocated to collaboration</p> <p>-Edu/outreach and collaboration staff - \$80,000/year</p>		<p>organizations achieved following turnover - (11/22) further turnover - (8/22) LCCD has built collaborations with local watershed groups (Loyalsock, Muncy Creek, Pine Creek) and the Waterdale Education Center to provide community education</p>
--	--	---	--	--	--	---	--	--	---	--	---

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

			- Northcentral PA Conservancy									
2.7	Reduce fertilizer use School outreach	-Begin outreach campaigns -Education of alternative fertilizers -Work with school districts on soil and water testing	-Penn State Extension -LCCD -Lycoming County -Penn State Master Gardeners	-Countywide	-2025 and beyond	-Target farms/areas close to streams -Need regular outreach using multiple and diverse platforms -Efforts may not increase program interest or elicit behavior change	-Existing interest in water testing at Montgomery High School for Black Hole Creek and White Deer Hole Creek (Chris Ulrich)	-PACD mini grant for soil testing/sampling -Trout Unlimited and Fish and Boat Commission grant for multiple projects https://coldwaterheritage.org/ -County enviro funding -DCNR Environmental Education grant -PennVest	-Personnel (1-2 people to do sampling) from LCCD -Personnel to create/establish soil baseline -Have NRCS and USDA come to county and other entities to re-emphasize their programs and projects and resources -Funding for edu/outreach staff and grant coordinator - \$160,000/year -Funding for professional marketing - \$80,000/year	-DEP	- (8/22) LCCD undergoing water quality outreach with local high schools; interest has been expressed by East Lycoming Education Foundation	

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

2.8	Reduce fertilizer use Landowner outreach	<ul style="list-style-type: none"> -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 -Expanded soil testing –Free soil tests to landowners during certain times of the year -Showcase documents for marketing (demonstrating before and after) -Reduce fertilizer use by 10% by 2025 	<ul style="list-style-type: none"> -Penn State Extension -LCCD -Lycoming County -Penn State Master Gardeners 	-Countywide	-2025 and beyond	<ul style="list-style-type: none"> -Target farms/areas close to streams -Landowner engagement; managing landowner concerns -Need regular outreach using multiple and diverse platforms -Efforts may not increase program interest or elicit behavior change 	<ul style="list-style-type: none"> -Lycoming County mapping “Hot spots” maps -DEP – printing materials (e.g. Guidelines for Maintaining Streams in Your Communities) -Penn State Extension landowner webinar series on fertilizer alternatives and application practices; soil testing -USGS for groundwater data -DEP outreach materials -RC&D resources/outreach/materials/technical assistance 	<ul style="list-style-type: none"> -PACD mini grant for soil testing/sampling -Trout Unlimited and Fish and Boat Commission grant for multiple projects https://coldwaterheritage.org/ -County enviro funding -DCNR Environmental Education grant -PennVest 	<ul style="list-style-type: none"> -Personnel (1-2 people to do sampling) from LCCD -Personnel to create/establish soil baseline -Have NRCS and USDA come to county and other entities to re-emphasize their programs and projects and resources -Funding for edu/outreach staff and grant coordinator - \$160,000/year -Funding for professional marketing - \$80,000/year 	-DEP	- (8/22) No progress, Staffing Constraints
-----	---	---	--	-------------	------------------	---	---	---	--	------	--

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

							-“Be More Floridian” marketing campaign as a case study -SRBC data					
2.9	Reduce fertilizer use Business/ Nonprofit 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	-USGS for groundwater data -DEP outreach materials -RC&D resources/outreach/materials/technical assistance -“Be More Floridian” marketing campaign as a case study -SRBC data	-PACD mini grant for soil testing/sampling -Trout Unlimited and Fish and Boat Commission grant for multiple projects https://coldwaterheritage.org/ -County enviro funding -DCNR Environmental Education grant -PennVest	-Personnel (1-2 people to do sampling) from LCCD -Personnel to create/establish soil baseline -Have NRCS and USDA come to county and other entities to re-emphasize their programs and projects and resources -Funding for edu/outreach staff and grant coordinator - \$160,000/year -Funding for professional marketing - \$80,000/year	-DEP	-(8/22) No progress	

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

B.											
2.11	Improve County stormwater training	<ul style="list-style-type: none"> -Improve onboarding process for minor stormwater plan review -Define further who is qualified to do minor stormwater reviews/give guidance to landowner -All entities to come up with coordinated process for simplification -Pre-designed stormwater controls for landowners -Education to landowners (implementing building permits example) as integral to stormwater planning - check with municipalities especially during subdivision process 	<ul style="list-style-type: none"> -Lycoming County -Muni partners 	-Countywide	-2025 and beyond	<ul style="list-style-type: none"> -Administrative challenges -Muni coordination -Cost to landowners for small projects 	<ul style="list-style-type: none"> -LCCD – delegated duties -DEP – 167 plans, MS4 plans -Personnel (development services supervisor; subdivision and land development admin) -Stormwater inspection training is available -Clean Water Institute 		<ul style="list-style-type: none"> -Stormwater policy expert (engineer possibly) –\$10 million per year for engineering -Stormwater review training -Training for BMP inspections (MS4 and non-MS4) -Training on BMP construction -Training on amended soils 		<ul style="list-style-type: none"> - (11/22) Potential MS4 opportunities with municipal adoption in the county

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

3.1	Increase planning efficiency, reduce duplicative work, and to better target and coordinate projects -Establish project map at county level	-ID shovel-ready projects -Collect projects and data from multiple entities -Ensure partner data is updated at least every 6 months and uploaded onto GIS after updated -Ensure partners and data contributors agree on a database structure format and attribute data classification in order to better standardize the existing/future data	-Lycoming County -LCCD -USGS -Schools for internships	-Countywide	-2021 -Update continuously	-Privacy concerns -Incomplete or unavailable data -Collaboration takes a lot of time -Limited administrative capacity -Communication and coordination among various entities can be challenging -Continually updating the map/data	-Lycoming County staff -Data from LCCD -Practice Keeper data -Get interns for this type of work (reach out to Bloom for interns, Lyco, Penn, others) -Penn State Capstone Projects		-Need cross-platform data consistency -Need to standardize the data and deliver it to the public and others in an innovative, captivating, and user-friendly fashion (can use interns for this) -May need data organization/GIS training		- (11/22) Staff turnover resulting in existing project contact and project identification disconnect
3.2	Increase planning efficiency, reduce duplicative work, and to better target and coordinate projects	-House compiled data in one place -Map MS4 projects -Update stormwater maps -Reduce duplicative data -Evaluate and integrate equitable distribution of community/environmental assets and “disassets”	-Lycoming County -Multiple entities	-Countywide	-2025 and beyond	-Privacy concerns -Incomplete or unavailable data -Collaboration takes a lot of time -Limited administrative capacity -Communication and coordination among various entities can be challenging	-Lycoming County GIS and staff -Chesapeake Conservancy data -DCNR River Conservation Plan -Trout Unlimited Coldwater Heritage Grant Program	-PPL Foundation	-Need cross-platform data consistency -Need to standardize the data and deliver it to the public and others in an innovative, captivating, and user-friendly		- (11/22) Older projects being added to PracticeKeeper by LCCD for reference; 20 input in 2022

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

	-Improve project tracking	<ul style="list-style-type: none"> -Track previous projects (e.g. streamside restoration) -Track LCCD and NRCS projects -Track projects identified in plans -County and Multi-Municipal Comprehensive Plans -West Branch Rivers Conservation Plan update -State Water Plan -Hazard Mitigation Plan -Greenways and Open Space Plan -Chesapeake Bay Pollutant Reduction Plans -Pine Creek Watershed Rivers Conservation plan -Establish database and maintain 4 years of consistent tracking 				-Continually updating the map/data			<ul style="list-style-type: none"> fashion (can use interns for this) -May need data organization/GIS training 		
--	---------------------------	--	--	--	--	------------------------------------	--	--	--	--	--

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

3.3	Increase planning efficiency, reduce duplicative work, and to better target and coordinate projects - Watershed/wetland tracking	-Have better tracking/ID of where the wetlands are located -ID watersheds that experience natural erosion -Establish database of county projects by having a staff member or intern put BMPs into practice keeper from all different plans – need one central person to input all BMPs and report in order to ensure more efficient planning -Map every farm and put projects into the map -Establish database and maintain 4 years of consistent tracking	-LCCD -Lycoming County - Chesapeake Conservancy -Trout Unlimited -FWS -DEP -Lycoming College	-Countywide	-2025 and beyond	-Privacy concerns -Incomplete or unavailable data -Collaboration takes a lot of time -Limited administrative capacity -Communication and coordination among various entities can be challenging -Continually updating the map/data	-Lycoming County GIS and staff -Chesapeake Conservancy data -DCNR River Conservation Plan -Trout Unlimited Coldwater Heritage Grant Program		-Need cross-platform data consistency -Need to standardize the data and deliver it to the public and others in an innovative, captivating, and user-friendly fashion (can use interns for this) -May need data organization/GIS training		- (11/22) No progress
3.4	Maintain an ag operator list	- Maintain existing list to ensure effective and efficient outreach for upcoming incentives and programs	-LCCD	-Countywide	-2025 and beyond	-Contacts could change frequently -Maintaining list can be time consuming	-A current list already exists (LCCD)		-Edu/outreach and collaboration staff - \$80,000/year		- (8/22) contact list of ~260 maintained ongoing - (8/22) no-till contact list planned and

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

											currently being cross referenced	
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 data	-LCCD -Lycoming County	-Countywide	-2025 and beyond	-Contacts could change frequently -Maintaining list can be time consuming				-Edu/outreach and collaboration staff - \$80,000/year		- (8/22) Staff constraints, no progress

4.1	Reassess parking requirements in ordinances to reduce the amount of impervious surface	-Expand pervious surfaces by 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	-Lycoming County - Municipalities	-Countywide	-Continuous -Update ordinances - 2023	-Ensure that “heat islands” are mitigated with plantings -Resistance from developers -Landowner buy-in -Ordinances limit -Expense -Cost (engineering and design) -BMP Certification -Consider Complete Streets Standards	-Many case studies and examples exist -Rethinking Parking Requirements Using Drone Imagery: https://docs.google.com/presentation/d/16yqwMGicIRNvUi5KyATDC-A509uSYI5pM0iGCLoKAbw/edit#slide=id.g47c21f69ac_0_6	-CAP Credits (EPA)	-Research on pavers (see University of New Hampshire) -Need additional case studies	-DEP		- (8/22) No progress
-----	--	--	--	-------------	--	---	---	--------------------	--	------	--	----------------------

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

4.2	Reassess stormwater ordinances	<ul style="list-style-type: none"> -Retrofit existing stormwater facilities/retrofit parking lot to add newer stormwater 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 -10 acres of grass buffers by 2025 	<ul style="list-style-type: none"> -Lycoming County - Municipalities 	-Countywide	<ul style="list-style-type: none"> -Continuous -Update ordinances - 2023 	<ul style="list-style-type: none"> -Cost (engineering and design) -BMP Certification 		<ul style="list-style-type: none"> -CAP Credits (EPA) -NRCS funding and incentives 		-DEP	<ul style="list-style-type: none"> - (11/22) Lycoming County Planning to revisit stormwater Plan in 2023 - (2022) South Williamsport and Duboistown Boroughs implement a regional stormwater management program; South Williamsport approves stormwater utility fee
-----	--------------------------------	--	--	-------------	--	--	--	--	--	------	--

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		-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; -Get waiver/special exception/modification process built into the ordinance (e.g. If there are new and innovative ways to address stormwater that the ordinance didn’t address; DEP form that says, “is there consistency without waiver”) -Review process for possible streamlining	-Lycoming County -LCCD – delegated duties -DEP – 167 plans, MS4 plans -All entities to come up with coordinated process for simplification -Muni partners	-Countywide	-Continuous	-Administrative challenges -Muni coordination -Can quickly become costly to landowners for small projects and single family homes to comply with stormwater requirements -Educate landowners on process	-Lycoming County staff -Stormwater inspection training is available	-Lycoming County funding	-Stormwater policy expert (engineer possibly) -Stormwater review training -Pre-designed stormwater controls for landowners -Education to landowners (implementing building permits example) as integral to stormwater planning – check with municipalities especially during subdivision process		- (8/22) Residential build waivers currently being considered

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

4.4	Integrate Hazard Mitigation Plan Update	<ul style="list-style-type: none"> -Provide technical assistance to municipalities -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 	<ul style="list-style-type: none"> -Lycoming County - Municipalities 	-Countywide	-2025 and beyond							
4.5	Continue MS4 Programs	<ul style="list-style-type: none"> -Collaborate/coordinate with MS4 communities to ensure work is not duplicated/competing -Ensure funding/technical resources are shared to municipalities/authorities/others when the county learns about them -Allow MS4 projects to be located outside of urbanized area 	<ul style="list-style-type: none"> -Lycoming County - Municipalities 	-Countywide	-2025 and beyond	<ul style="list-style-type: none"> -Collaboration and coordination to ensure CAP and MS4 projects are not duplicated and are co-beneficial -Provide more training on engineering, inspections, construction, and maintenance to MS4s 	-Data and mapping from Lycoming County staff	<ul style="list-style-type: none"> -Growing Greener -NFWF 	-GPS mapping equipment - \$10,000	-DEP	- (8/22) Staff constraints, no progress	

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

		-Streamline permitting process -Improve mapping and standardize data collection and management									
4.6	Improve planning effectiveness and efficiency	-Coordinate regulations and outcomes -Integrate rapid stream delisting planning strategy -ID potential to re-establish county-level stormwater coordinator to work with MS4 municipalities -Coordinate with updated State Water Plan (currently being updated) -Integrative water resource planning	-Regulatory entities (LCCD, DEP, PCD, etc.)	-Countywide	-2025 and beyond	-Communication (agency and entity coordination), data availability	-Clean Water Institute -Chesapeake Conservancy (for rapid stream delisting)	-County enviro funding -PennVest			- (11/22) Chesapeake Conservancy rapid stream delisting partnership meetings attended, collaboration with PCD and LCCD on Pine Run project

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.

*Completion of the projects and programs listed herein will be predicated upon receiving the resources requested in this plan

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

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2022) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	

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 through 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).