

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    Highlight changes for 2024-2025 milestone period

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 (2021-2025)	Reason for Change to Action Item  (2025-2026) milestone period)
							Technical	Financial	Technical	Financial		

Priority Initiative 1: Achieve Pollution Reduction Goals

A. Agriculture

		· 8,000 additional acres by 2025 (estimated \$40/acre)	· LCCD			Not getting expected ROI or outcome	County staff	· Growing Greener: Tiered funding for new and experienced cover croppers (multi-species) reimbursement for 3 years in a row	Acquire baseline cover crop numbers to supplement transect survey	More incentives to participate (\$40/acre) \$320,000	<u>2022</u>	3,000 acres funded through Growing Greener and CAP Implementation Grant.
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1.1	Increase cover crop BMPs		• Lycoming County	Countywide	2025 and beyond	Need more nuanced species for cover crop in sign up					<p><u>2024 (11/25/24)</u></p> <p>872.0 acres of cover crops planted in fall 2024 and will be paid out in spring 2025 with 2024 CAP funds</p>	
						Transect survey should include additional species and consider existing cover crops further from the road, as current reporting only identifies short-distance crops.					954.7 acres of cover crops planted in fall 2024 and will be paid out in spring/ summer of 2025 with \$40,000 in 2025 CAP funds	

											<p>2011 acres total- 879.2 acres CAP funded and 1131.9 acres were GG funded</p> <p><u>2025</u> (11/14/25)</p> <p>Total: 2,784.9 acres - \$125,783</p> <p>CAP Funded: 1,798 acres - \$78,010</p> <p>GG Funded: 986.9 acres - \$47,773</p>	
		<p>· Write Ag Erosion &amp; Sediment (E&amp;S) Plans for operations that still need them</p> <p>· 9,200 acres by 2025</p>									<p><u>2022</u></p> <p>Limited staff time, communication with interested local farmers initiated.</p> <p><u>2023</u></p>	

1.2	Soil Conservation and Water Quality Plans		• LCCD	Countywide	2025 and beyond	LCCD Staff		2 technical staff - \$160,000/year		<p>Working with Landowner and Pa Fish and Boat Commission to implement Brown Farm Fish Habitat to improve water quality in Little Muncy Creek</p> <p><u>2024 (11/25/24)</u></p> <p>-Brown Farm Fish Habitat Project completed with CAP funds.</p> <p>-LCCD is working with the PA Fish &amp; Boat Commission on German Run</p> <p>Soil Conservation and Water Quality Plans Write Ag E &amp; S Plans: 2022-596.9 ac., 2023-1012.7 ac. over 25 plans, and 2024- 1073.7 ac. over 3 plans</p>	
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	Management Systems	<ul style="list-style-type: none"> <li>· 10 acres by 2025</li> <li>· Increase manure storage facilities</li> <li>· 2 projects/year – 10 systems by 2026</li> </ul>	LCCD	Countywide	beyond	Permitting can be cumbersome		grants totaling \$245,000		DLF	<p><u>2024</u> (11/25/24)</p> <p>Designs are delayed a couple months due to the long process involved</p> <p><u>2025</u></p> <p>-4 ACAP Animal Waste Mgmt. Systems in design phase; 1 GG System waiting on construction; 1 GG to be finished in Dec. in design phase</p> <p>-7 Manure Storage Systems; 6 Heavy Use Areas in design phase</p>	
		· 2,700 acres by 2025									<p><u>2022</u></p> <p>Landowners identified, designs in progress</p>	

1.4	Increase rotational /prescribed grazing	<ul style="list-style-type: none"> <li>Write grazing plans for grazing operations in the county</li> </ul>	<ul style="list-style-type: none"> <li>NRCS</li> </ul>	Countywide	2025 and beyond						1 technical staff - \$80,000/year		<p style="text-align: right;"><u>2023</u></p> <p>No progress updates</p> <p><u>2024 (11/25/24)</u></p> <p>No updates</p> <p style="text-align: right;"><u>2025</u></p> <p>No updates</p>	
		<ul style="list-style-type: none"> <li>Have a no-till reporting/sign up at the conservation district to give more nuanced data</li> <li>Expand equipment rental program – 300 acres/yr increase starting in 2023</li> </ul>											<p style="text-align: right;"><u>2022</u></p> <p>New 10' no till drill acquired for renting out</p> <p>- One new vehicle acquired</p> <p style="text-align: right;"><u>2023</u></p>	

1.5	Increase no till/conservation tillage BMPs	• LCCD	Countywide	2025 and beyond		\$5000 coming from Growing Greener	2 additional staff to coordinate - \$160,000/year	Funding for equipment - DEP	<p>LCCD continues to work with Land Owners to rent out no-till equipment.</p> <p style="text-align: right;"><u>2024</u></p> <p>(11/25/24)</p> <p>LCCD continues to work with Land Owners to rent out no-till equipment.</p> <p>Increase no-till/conservation tillage BMPs:  2022 Drill acres Total= 406.5 ac- 273.2 on 10' drill and 133.7 on 7' drill;  2023 Drill acres Total= 352.1 ac- 239.1 on 10' drill and 113.0 on 7' drill;  2024 Drill acres Total= 415.7 ac- 276.8 on 10' drill and 138.9 on 7' drill;  2019-2021 yearly average on single 7' drill = 263.4 ac.; 2022-2024 yearly average with two drills = 391.4 ac; net average increase of 49% per year</p> <p style="text-align: right;"><u>2025</u></p>
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											518.6 acres total: 7' = 144.6 ac, 10' = 374ac.	
		<ul style="list-style-type: none"> <li>Re-enroll in eligible areas by planting replacement trees.</li> </ul>	<ul style="list-style-type: none"> <li>LCCD</li> </ul>		<ul style="list-style-type: none"> <li>Buffer decline, reducing re-enrollment due to invasive, based FSA data.</li> </ul>	FSA data	DCNR C2P2 grant	<ul style="list-style-type: none"> <li>Need assistance to encourage farmers to keep what they have by obtaining the resources to maintain their buffer</li> </ul>			2022	
		<ul style="list-style-type: none"> <li>Live stake harvesting</li> </ul>	<ul style="list-style-type: none"> <li>NRCS</li> </ul>		<ul style="list-style-type: none"> <li>10 million tree program to place trees in buffer for farmers' renewal, 2 years before re-enrollment.</li> </ul>	10 Million Trees program	NFWF	<ul style="list-style-type: none"> <li>3 seasonal staff to spray new buffers - \$40,000/yr - \$120,000 total</li> </ul>		<ul style="list-style-type: none"> <li>4,170 LCCD distributed seedlings planted through the Keystone 10 Million Tree Plantings project over 33 properties</li> </ul>		2023

		<ul style="list-style-type: none"> <li>Initiate a field border program to improve buffer maintenance and provide incentives for planting crops.</li> </ul>				<ul style="list-style-type: none"> <li>Land use could change to forest land instead of agriculture after a certain period of time due to tree growth</li> </ul>	Chesapeake Conservancy – buffer maintenance	Growing Greener	1 technical staff - \$80,000/yr		9.0 Arce CREP buffer was planted in Spring 2023 on Brown Farm that was formerly used as pasture
		<ul style="list-style-type: none"> <li>Up to 500 acres of non-hay-producing grass buffer/year</li> </ul>				<ul style="list-style-type: none"> <li>Buffers do not get counted for depth in CAST Model</li> </ul>			1 outreach staff - \$80,000/yr		
		<ul style="list-style-type: none"> <li>Up to 3,500 acres of hay-producing pasture/year</li> </ul>				<ul style="list-style-type: none"> <li>Make sure to put a turn in the field border</li> </ul>	Live Stake Collaborative: hiring personnel in the Fall 2021 (increased capacity)	TreeVitalize			2023: Keystone 10 Million Tree Program:
						<ul style="list-style-type: none"> <li>Allow GP6 ag crossing in special protection watersheds</li> </ul>					2023 Spring- 20 Landowners, 2200 Seedlings, and 11.3 Acres
							LCCD Nature Trail for cuttings (live stakes)	PPL Community Roots			

1.6	Increase buffer BMPs			Countywide	2025 and beyond		NEIN data			Funding for program - DEP	<p>2023 Fall- 23 Landowners, 3400 Seedlings, and 17.5 Acres which included the Phase 1 Spring Garden FH Project.</p> <p style="text-align: right;"><u>2024</u> (11/25/24)</p> <p>Keystone 10 Million Tree Program:</p> <p>2024 Fall- 21 Landowners, 1100 Seedlings, and 5.67 Acres which includes the Buffer replanting at Spring Garden Fish Habitat Project of 250.</p>	
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Technical outreach/Incentive program through DCNR buffer program and CREP

October 2024- LCCD will be planting 150 live stakes (Silky Dogwood, Willow and Sycamores) at Lycoming Sportsman Fish Habitat Project. The stakes are being funded through the Fish and Boat CHIP program.

2025

.75 acre ag buffer and more planned through ag programs admin'ed by LCCD

Since 2022 LCCD seedling sale has provided 14,980 trees; of those, 4,000 were sold in 2025

Ag Land		<ul style="list-style-type: none"> <li>· Write manure management plans for non-CAOs and non-CAFOs</li> </ul>					Lycoming County staff		Case studies to showcase success		<p style="text-align: right;"><u>2022</u></p> <p>18 manure management plans covering 599.5 acres and 21 IDNS plans covering 653.4 acres written by LCCD from Jan-Nov of 2022</p>	
		<ul style="list-style-type: none"> <li>· 21,700 acres by 2025 (~200 management plans)</li> </ul>					Data from LCCD		Technical outreach		<p style="text-align: right;"><u>2023</u></p>	
		<ul style="list-style-type: none"> <li>· Track nitrogen and phosphorus in PracticeKeeper (core N and P, placement, rate, and timing)</li> </ul>					Centre County received grants for plan writing – look to them as an example		2 staff to write the manure management plans - \$160,000/year		<p>County working with LCCD to implement 2 stream restoration projects currently. Each is set to reduce around 60K pounds of nitrogen and 600 pounds of phosphorus.</p>	

1.7	Nutrient Management – Basic Nutrient Management	- 8,000 acres of basic nutrient management tracking by 2025	• LCCD	Countywide	2025 and beyond						<p>Write MMPs for non-CAOs and non-CAFOs-2023- 236.1 ac over 10 MMPs</p> <p style="text-align: right;"><u>2024</u></p> <p>(11/25/24)</p> <p>County working with LCCD to implement stream restoration projects currently that will result nitrogen and phosphorous reductions</p> <p>-Write MMPs for non-CAOs and non-CAFOs-2024 20.8 ac over 3 MMPs</p> <p style="text-align: right;"><u>2025</u></p> <p>5 manure mgmt. plans, 478.5 acres</p>	
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1.8	Implement NRCS Projects	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  Grass Buffer  · 117.2 acres by 2025  Conservation Planning  · 1,500 acres/year	· NRCS	Countywide	2025 and beyond							
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		Lycoming College Biology Field Station project	• LCCD				Chesapeake Conservancy data	Lyco College Clean Water Institute			<u>2022</u>	
		• 2,225 feet converted to floodplain										Lycoming College Biology Field Station project applied for CAP Implementation funding
			• Lycoming County				Trout Unlimited wetland delineations	PennVest			<u>2023</u>	
			• Chesapeake Conservancy				Kip Starks from DEP	Growing Greener				Lycoming College is in coordination with USFWS to oversee Loyalsock creek restoration project and next steps. USFWS has the project on its calendar for fall/winter 2023.
			• Trout Unlimited				Mark Roberts from US FWS				<u>2024</u>	
1.9	Floodplain restoration			Countywide	2025 and beyond							(11/25/24)

			<ul style="list-style-type: none"> <li>• FWS</li> <li>• DEP</li> <li>• Lycoming College</li> </ul>								<p>Lycoming College is continuing to work with USFWS on the Biology Field Station- Loyalsock Creek Restoration. The have taken a different approach and are looking at providing habitat and stabilization in the new channel.</p> <p style="text-align: right;"><u>2025</u></p> <p>Unable to do outreach due to shut downs and staff constraints</p>	
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B. Developed/Urban

1.1	Turf Field nutrient management	Implement a documentation program for commercial and homeowner nutrient applications in developed lands	• Little League	Landowner buy-in	Lycoming County staff	DCNR Environmental Education grant	Having solutions to offset fertilizer	DEP	<u>2022</u>	
		Support fertilizer legislation	• Lycoming County	Education of responsible parties	Data from LCCD	DCNR Lawn Conversion program	More soil tests	Penn State Extension	No progress, staff constraints	
		Quantify artificial turf acres – ID data	• NRCS	• Churches	Coordination between partners	DCNR Lawn Conversion Program	PennVest	1 Edu/outreach staff -\$80,000/yr	No progress.	<u>2023</u>
		Golf course improvements (use BMPs for PA Golf Courses Guide)	• Hospitals	• Cemeteries	Limited by plant height (don't want them to get too high on golf courses)	Penn State Extension soil testing resources				<u>2024</u>
		• White Deer Golf Course	• School Districts	Maintenance	Master naturalists/gardener program				(11/25/24)	
		• Williamsport Country Club	• Golf Courses	2025 and beyond					No updates	

		<p>Convert turf fields and lawns to meadow/riparian</p> <p>· 20 acres of turf conversion by 2025</p>		<p>· Colleges</p>	<p>Landowners may be limited in their scope of interest</p> <p>Focus on benefits of managing land holistically/big-picture to increase quality of experience</p> <p>Better management with BMPs would lead to less costly maintenance</p> <p>Ensure local/county ordinances do not conflict with goal</p>	<p>Americore for educational outreach</p>					<p><u>2025</u></p> <p>No updates.</p>	
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		Ensure projects are equitably distributed and address environmental justice issues	Flood buyout plantings			Expand funding for targeted green infrastructure projects that are located in low-income/minority neighborhoods (e.g. Targeted Outreach for Green Infrastructure (TOGI))	Landscapers	NFWF	Technical assistance		<u>2022</u>
			• FEMA				Small businesses				6 floodplain buyouts completed in 2022
		Improve stormwater management by implementing and expanding green infrastructure:	• Local Munis			Resistance from developers	Chesapeake Conservancy data available	DCNR C2P2 grant	Maintenance		- (11/22) Awarded \$25,000 Nature Based Solution grant to integrate Environmental considerations into the County Hazard Plan
		Street trees	• PEMA				Penn State Capstone Project for maintenance (internship)				
		• Bioswales				Expense	Universities/Colleges for internship for maintenance	Growing Greener	Penn State Capstone Project for maintenance (internship)		<u>2022</u>

		<ul style="list-style-type: none"> <li>· Rain gardens</li> </ul>	Airport				FSA data				Stream bank stabilization project completed
		<ul style="list-style-type: none"> <li>· Plantings along local streets and bordering parking lots to capture and filter stormwater</li> </ul>			Maintenance		10 Million Trees program	TreeVitalize		Universities/Coll eges for internship for maintenance	
		<ul style="list-style-type: none"> <li>· Establish Street Tree Committee</li> </ul>	Municipalities				Chesapeake Conservancy – buffer maintenance				<u>2023</u>
					Look at what properties (authorities and muni land ownership) exist for long-term plantings for consistency of ownership		Live Stake Collaborative: hiring personnel in the Fall 2021 (increased capacity)	DEP		1 Lycoming County Planning staff to implement and run green infrastructure program - \$80,000/year	4 Floodplain buyouts completed in 2023
		Do plantings on hospital campuses	Lycoming County				LCCD Nature Trail for cuttings (live stakes)				

		Improve and increase trails/ID ways to improve the "Pathways to Health"	LCCD			If we rely on college interns, the internships may not line up with when maintenance needs are highest		Private sector grants	1 grant coordinator for Lycoming County Planning and LCCD - \$80,000/year		Keystone 10 Million Tree Program:
						Training interns long term would be laborious and inconsistent		Keep Pennsylvania Beautiful Community Improvement Grants (Healing the Planet Grant Program)	Funding for edu/outreach staff and grant coordinator		2023 Spring- 20 Landowners, 2200 Seedlings, and 11.3 Acres
		Expand TreeVitalize program in County	Businesses and campuses						-\$80,000/year		2023 Fall- 23 Landowners, 3400 Seedlings, and 17.5 Acres which included the Phase 1 Spring Garden FH Project.
						Landowners would not feel ownership over plantings if we use interns to maintain the planting		PennVest			

1.11	Green Infrastructure, buffers, and plantings	<p>Plant buffers and basins on golf courses (use BMPs for PA Golf Courses Guide)</p> <ul style="list-style-type: none"> <li>White Deer Golf Course riparian buffers/vegetated plantings</li> <li>Remove earthen berm from White Deer Golf Course (county may own that land)</li> <li>Continued maintenance in floodplain restoration site at White Deer</li> <li>Williamsport Country Club</li> </ul>	<p>Golf courses</p> <p>Susquehanna Greenway Partnership (SGP)</p> <p>DCED</p>	Countywide	2025 and beyond	<p>Need buy-in and willingness to modify management practices</p> <p>Landowners may be limited in their scope of interest (more specific to business owners)</p>		PPL Community Roots		Funding for maintenance and programs - DEP	<p>(11/25/24)</p> <p>Keystone 10 Million Tree Program:</p> <p>-2024 Spring- LCCD did not see any of of the seedlings we had requested.</p>	<u>2024</u>
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		<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>										
		<ul style="list-style-type: none"> <li>Municipalities that contain impaired watersheds</li> <li>Aim to complete 5 miles of road repair per year</li> </ul>	<ul style="list-style-type: none"> <li>LCCD</li> </ul>			<p>Lack of landowner ROW access</p>	<p>LCCD staff</p>					<p><u>2022</u></p> <p>Contracts for 5mil worth of construction projects signed this year w/LCCD funding</p>

1.12	DGLVR Program	<ul style="list-style-type: none"> <li>Aim to install more new cross-pipes than replacement to create better outlets.</li> </ul>	<ul style="list-style-type: none"> <li>ESM Certified Municipalities</li> </ul>	Countywide	2025 and beyond	<p>Lack of increase in funding</p> <p>Lack of local shale availability</p>	<p>Lack of ESM certified entities</p> <p>Trout unlimited technical assistance</p>	LCCD Dirt and Gravel and Low Volume Roads funding	Additional funding	Funding for equipment - DEP	<p>Several municipalities are working to complete 2022 contracted grants. LCCD is waiting for PA state budget to pass to receive allocation and award 2023 contracts.</p> <p>(11/25/24)</p>	<p><u>2023</u></p> <p><u>2024</u></p>
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						Increase in fuel costs associated with hauling equipment						2.68 miles of road improvements completed. Two contracts were postponed until 2025. A total of 4.58 miles were contracted for 2024.	
													<u>2025</u>
												3.424 miles of road improvements for sediment reduction goals	

C. Natural

		Trout Unlimited (see also "Trout Unlimited Projects", Action # 1.19):	LCCD	Plunketts Creek		Depth of streambank stabilization/restoration projects does not get counted in CAST Model	Trout Unlimited technical assistance/engagement/projects	NFWF	Case studies to showcase success	DEP			<u>2022</u>
		Cemetery Road (Bear Run)										Pine Run Stream Restoration Phase I, managed by Pheasants Forever is nearing completion. Phase II applied for CAP Implementation Funding	



1.13	Stream/stream bank	<ul style="list-style-type: none"> <li>· 1 mile of large wood additions.</li> </ul> <p>Northcentral Pa Conservancy projects (see also "Northcentral PA Conservancy projects", Action # 1.25):</p> <ul style="list-style-type: none"> <li>· Plunketts Creek</li> <li>· 2,000 feet</li> </ul>	<p>US Fish and Wildlife</p> <p>Extension partners</p> <p>Northcentral PA Conservancy</p>	<p>Ag impaired streams focus</p>	2025 and beyond	<p>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.</p> <p>Loosen restrictions on buffer and fencing money (fencing 15 feet from the top of a streambank is not ideal)</p> <p>Allow GP6 ag crossing in special protection watersheds</p>	<p>Chesapeake Conservancy data/rapid stream de-listing</p> <p>Fish and boat commission has technical assistance</p>	<p>Trout Unlimited funding</p> <p>Fish and boat commission has funding for staff</p>	<p>Comprehensive Stream Assessment, temp monitoring</p>	<p>4 Stream Restoration Projects currently occurring in the County of Lycoming</p> <p>Bottle Run w/ Old Lycoming Twp</p> <p>Bennett's Run w/ Fairfield Twp</p> <p>Brown Farm Fish Habitat</p> <p>Spring Garden Hunting Club Stream and Habitat</p>	
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	restoration	Integrate rapid stream de-listing planning strategy	Trout Unlimited		beyond					<p>(11/25/24)</p> <p>Stream restoration projects compete:</p> <p><b>-Spring Garden 1, 2 and repair to Phase 2 complete (CAP funds). Spring Garden Fish Habitat Project- Phase 2</b> was completed in September 2024. Project consisted of 410 feet of streambank stabilization and fish habitat enhancement. Worked with Trout Unlimited and funded through CAP. Also, repaired the Phase 1 project after Hurricane Debby damaged the mudsill also funded by CAP.</p>	<p><u>2024</u></p>
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Watershed  
Associations

**-Lycoming Creek  
Sportsman Fish Habitat  
Project was completed in  
8/24. Project consisted  
of 350 ft of streambank  
stabilization and fish  
habitat enhancement.  
Worked with PA Fish and  
Boat Commission,  
Habitat Division and  
funded through CAP.**





		<ul style="list-style-type: none"> <li>• 1 mile of large wood additions.</li> </ul>									<p>Spring Garden Hunting Club Stream and Habitat Restoration complete - Phase 1, 2, and repairs to Phase 1 (CAP funds)</p> <p style="text-align: right;"><u>2025</u></p> <p>Unable to do outreach due to staff constraints.</p>	
		<p>Flocks Run Road, Dirt and Gravel Road Improvement</p> <ul style="list-style-type: none"> <li>• 4,235 feet</li> </ul>										
		<ul style="list-style-type: none"> <li>• 200 trees planted</li> </ul>	<ul style="list-style-type: none"> <li>• Currently owned by Armstrong Twp (will be new South Side Rec Authority ownership)</li> </ul>			Funding	Brian Auman worked on a preliminary plan	Variety of funding (planning, development, riparian buffers)	Needs planning (master planning/stewardship planning)	Grant matches - DEP	<u>2022</u>	
		<ul style="list-style-type: none"> <li>• 70 acre wetland and meadow</li> </ul>	<ul style="list-style-type: none"> <li>• Ducks Unlimited</li> </ul>			Could be challenges with wetland boardwalk because it is a regulated wetland	Jim Dunn working on planning and stewardship	DCNR	Funding for edu/outreach staff and grant coordinator - \$160,000/year	Planning documents - DCNR		<u>2023</u>

1.15	Sylvan Dell improvements	· Implement future improvements (trails, wetlands, plantings)		South Williamsport	2025 and beyond	Public Access issues with railroad (Norfolk Southern)	Plantings and wildlife boxes were established	NFWF		Soil testing - DEP/Extension	Wetland enchantment project planned for the end of July. Construction to begin in August.	
							Ducks Unlimited	PennVest		Volunteers - Clean Water Institute, TreeVitalize, Penn State	(11/25/24)	<u>2024</u>
								DEP (Growing Greener)		Trees - TreeVitalize, Penn State, 10 Million Trees		Robert Porter Allen Wetland project was constructed this year.
								First Community Foundation money				<u>2025</u>
								Look at DCNR funding list from Northwest region				Tree plantings at Robert Porter Allen.



1.16	Pine Creek Valley improvements	<p>Identify project gaps</p> <p>Include parks along Pine Creek</p> <p>20 acres of forest buffer by 2025</p>	<ul style="list-style-type: none"> <li>• Pine Creek Watershed Council (Jim Weaver)</li> <li>• Trout Unlimited</li> <li>• Pine Creek COG</li> <li>• DCED</li> </ul>	Pine Creek Valley	2025 and beyond		Trout Unlimited technical resources		Coordination among multiple entities		<p>Pine Creek Rail Trail Extension to connect Wellsboro, Pa to Jersey Shore, Pa. The south section is 1.2-mile connection, the first initial section of the trail. Groundbreaking Ceremony was held in May 2023.</p> <p>(11/25/24)</p> <p>Pine Creek- most projects around there were in project mode or near the end. Carpenter lane has a few residents that LCCD still needs to talk to about barnyard cleanup projects.</p> <p>Unable to do outreach due to staff constraints</p>	<p><u>2024</u></p> <p><u>2025</u></p>
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			• DCNR									
		South Williamsport park	• Lycoming County	South Williamsport		Funding for maintenance	Local interest	DCNR funding for stormwater management with green infrastructure	Funding for edu/outreach staff and grant coordinator - \$160,000/year			<u>2022</u>
		• Address stormwater (current swales retain water)										Considering including watershed protection in future mini grant application scoring after 2022 application review
		• Sensory garden	• Municipalities	Hughesville		Some improvements are located in floodplain, which can cause permitting and logistics issues	K10 Partnership (10 million trees)	Variety of funding (planning, development, riparian buffers)	Parks may need updated/new planning/Site development/strategic plans			
		• Brandon Park nature-based playground										<u>2023</u>
		• New baseball field	• Chamber of Commerce	Lewis Twp		Some areas are wet and will need mosquito treatment	Muncy projects found in Muncy Recreation Sites Report, 2013; see pdf pg 33 and in Muncy Resiliency Plan, 2021	NFWF	Volunteers (TreeVitalize)			County applied for and secured DNCR C2P2 Grant funding to update Outdoor Rec and Open Space Plan.







		Miller's Run Greenway construction	<ul style="list-style-type: none"> <li>Loyalsock Twp Rec Department involvement</li> </ul>	Loyalsock Twp	3rd street crossing for Miller's Run going over bridge is very expensive	Discussed in 2017 Lycoming County Comprehensive Plan	NFWF	Funding for edu/outreach staff and grant coordinator	Funding for planning and technical assistance – DCNR, DEP	<u>2022</u>	
		<ul style="list-style-type: none"> <li>Connect the park at North Way Rd to Williamsport RiverWalk</li> </ul>						-\$160,000/year		No Progress	

1.18	Trail/greenway projects	~1 mile of buffer	<ul style="list-style-type: none"> <li>Susquehanna Greenway Partnership</li> <li>Lycoming County</li> </ul>	Countywide	Continuous	Funding for maintenance	Feasibility studies for West Branch Greenway routes exist	PennVest	Maps for existing and future trails	Funding for legal assistance – DEP	<p>Phase 1 has been completed in the Miller's Run Greenway construction. Phase 2 is currently under construction. Project leads are currently working on funding for Phase III at this time.</p> <p><u>2023</u></p>	
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		<p>Susquehanna Greenway completion</p> <ul style="list-style-type: none"> <li>· Implement buffered river access points every 5 miles</li> <li>· Improve and expand River Towns program to advance green infrastructure and buffers</li> <li>· Reduce runoff by having forested buffer throughout Susquehanna River</li> <li>· Update SGP master plan to ensure effective and efficient planning</li> </ul>	<ul style="list-style-type: none"> <li>· DCED</li> <li>· DCNR</li> </ul>		<p>Railroad and street crossings are very expensive and challenging</p> <p>Coordination and continuity between multiple entities</p>		<p>First Community Foundation money</p> <p>Look at DCNR funding list from Northwest region</p>	<p>Legal assistance if easements are needed</p>	<p>Funding for property acquisition – DEP, PennVest</p> <p>Funding for boat launches – DCNR, DEP</p>	<p><u>2024</u></p> <p>(11/25/24)</p> <p>Partial funding secured for River Walk Extension constitution</p>	
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		<ul style="list-style-type: none"> <li>~36 miles of greenway (forest buffer) in Lycoming County (~430 acres of buffer)</li> </ul>						Greenways, Trails, and Recreation grant		Funding for wayfinding – DCNR, DEP		<p style="text-align: right;"><u>2025</u></p> <p>No updates.</p>
		<ul style="list-style-type: none"> <li>Improvements at all sites to reduce erosion and runoff issues</li> <li>5 acres of erosion and sediment control level 2 by 2025</li> </ul>	<ul style="list-style-type: none"> <li>Fish and Boat</li> </ul>				Fish and Boat data	DCNR				<p style="text-align: right;"><u>2022</u></p> <p>No Progress</p>
			<ul style="list-style-type: none"> <li>Lycoming County</li> </ul>				Susquehanna Greenway Partnership data/inventory	Riparian forest buffer plantings funding				<p style="text-align: right;"><u>2023</u></p>

1.2	Trail and boat access sites/parking lot improvements		<ul style="list-style-type: none"> <li>Susquehanna Greenway Partnership</li> <li>Chesapeake Conservancy</li> </ul>	Countywide	2025 and beyond	Work with Fish and Boat maintenance crews so that they know not to mow or do specific standard maintenance	-DCNR data/inventory  Chesapeake Conservancy data	Fish and Boat boating facilities grant  If in muni land, can use facilities improvements funding	Engineering, design, and construction	DEP	Wayfinding projects under way for River Walk Extension.  <u>2024</u>	(11/25/24)
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1.21	Northcentral Pa Conservancy projects	Implement future projects in the county (e.g. buffers)	• Northcentral PA Conservancy	Countywide	2021 and beyond	Landowners may need technical assistance, equipment, and education for project maintenance  Establish a regional work crew to help maintain projects/limit invasive	US Fish and Wildlife  Fish and Boat Commission	Growing Greener  TreeVitalize	Technical assistance, equipment, and education to landowners for project maintenance (Penn State Extension has some resources)  Incentive program	PA Fish and Boat Commission	<p style="text-align: center;"><u>2023</u></p> <p>Applying for a Growing Greener Grant to continue to work on northcentral stream partnership. Primarily focused on sediment/ag. Impaired streams in the Chesapeake Bay watershed.</p>	
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								DEP (Growing Greener)		Trees - TreeVitalize, Penn State, 10 Million Trees	No updates
								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)			

Priority Initiative 2: Coordination, Education, Outreach, and Training

A. Out Reach and Education

		Hold tours for 4H, Future Farmers of America, Scout Troops, schools, etc.	• LCCD			Efforts may not increase program interest or elicit behavior change	DEP for outreach/media platform/materials		Long-term ag peer group/committee for programmatic work		<u>2022</u>
											Rotational grazing education event held at LCCD farm



		4,326.4 additional acres of buffers by 2025										<u>2025</u>
											No update	
		Message toward "regenerative" agriculture approach	• LCCD			Efforts may not increase program interest or elicit behavior change	County staff	US and PA No-Till Alliance funding				<u>2022</u>
		Change farming practices with demonstrations (yield comparisons at County Farm) and messaging ("Park the Plow")	• NRCS			Impact can be difficult to quantify	US and PA No-Till Alliance: farmer mentor program	DEP Small Business Advantage grants				2023 GG grant to be used for no-till education
2.1a	Use County Farm for education – Annual field days	• 600 additional acres of no-till by 2025			2025 and beyond				Marketing and rebranding position for county farm - \$80,000/year			<u>2023</u>
		• 8,000 additional acres of cover crops by 2025	• Lycoming County				Game Commission land	NRCS funding				County Farm Open House held to educate public on good farming practices

		· 4,326.4 additional acres of buffers by 2025					National Ag Statistics from USDA surveys	Tiered funding for no-till (see above for potential model)			<u>2024</u>	
							Transect Survey			(11/25/24)	No updates	
							Capital RC&D				<u>2025</u>	Field Day w/ over 200 in attendance
		County Fairs	· LCCD			Ensure outreach materials are available in multiple languages and address potential culturally-specific priorities	Outreach materials		Education/outreach staff - \$80,000/year		<u>2022</u>	LCCD County Fair display
		1st Fridays and 1st Saturdays	· NRCS			Impact can be difficult to quantify	Clean Water Institute		More condensed/digestible public messaging materials		<u>2023</u>	

		Balloonfest	• Lycoming County			Efforts may not increase program interest or elicit behavior change					LCCD and PCDD put together County Fair displays to increase public awareness of CAP and BMPS
		Host meetings/workshops with farmers and forest landowners									<u>2024</u>
		Field days, demos at County Farm								(11/25/24)	
		– 2 events at County Farm per year									LCCD held an in-person AG brunch that was also an outreach event for BMPS
											<u>2025</u>
											In 2025, LCCD held 20 EE Events reaching 1088 students- Carey
											Water Quality Field Trips to Waterdale EE Center: 5

• Teachers  
Workshops @  
Waterdale EE  
Center: 3

• Trout in  
the Classroom  
in class  
programs: 6

2.2	Attend events and increase in-person outreach to increase BMPs			Countywide	2025 and beyond						<ul style="list-style-type: none"><li>• Trout in the Classroom field trips: 4</li></ul>	<ul style="list-style-type: none"><li>• Montgomery Ag Day- 2<sup>nd</sup> grade field trip (200 students)</li></ul>
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- Lycoming Sullivan Envirothon- 120 HS Students from 6 school districts

Others: West Branch COG show back in the spring- Nikki

Rod had 10' drill displayed at the fair.

Ag Brunch for Farmers – 67 in attendance

County Ag Day at the County Farm – 200+ attended this





											Social media posts continue to be made.	
		<ul style="list-style-type: none"> <li>• Begin outreach campaigns</li> </ul>	<ul style="list-style-type: none"> <li>• Penn State Extension</li> </ul>		<ul style="list-style-type: none"> <li>Target farms/areas close to streams</li> </ul>		<ul style="list-style-type: none"> <li>PACD mini grant for soil testing/sampling</li> </ul>	<ul style="list-style-type: none"> <li>Personnel (1-2 people to do sampling) from LCCD</li> </ul>			<ul style="list-style-type: none"> <li>2022</li> </ul>	
		<ul style="list-style-type: none"> <li>• Education of alternative fertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• LCCD</li> </ul>		<ul style="list-style-type: none"> <li>Need regular outreach using multiple and diverse platforms</li> </ul>		<ul style="list-style-type: none"> <li>Trout Unlimited and Fish and Boat Commission grant for multiple projects <a href="https://coldwaterheritage.org/">https://coldwaterheritage.org/</a></li> </ul>	<ul style="list-style-type: none"> <li>Personnel to create/establish soil baseline</li> </ul>			<ul style="list-style-type: none"> <li>LCCD undergoing water quality outreach with local high schools; interest has been expressed by East Lycoming Education Foundation</li> </ul>	<ul style="list-style-type: none"> <li>2023</li> </ul>

		<ul style="list-style-type: none"> <li>· Work with school districts on soil and water testing</li> </ul>	<ul style="list-style-type: none"> <li>· Lycoming County</li> </ul>			Efforts may not increase program interest or elicit behavior change		County enviro funding	Have NRCS and USDA come to county and other entities to re-emphasize their programs and projects and resources	LCCD Environmental Education Mini Grant Program: Looks to find local conservation projects while educating adults and youth in Lycoming County of Lycoming
			<ul style="list-style-type: none"> <li>· Penn State Master Gardeners</li> </ul>					DCNR Environmental Education grant	Funding for edu/outreach staff and grant coordinator - \$160,000/year	-LCCD provided 18 environmental education programs reaching over 640 participants.
										-Waterdale Environmental Education Center— hosted five field trips, the BLAST IU 17 Meaningful Watershed Education Experiences Workshop and our District Picnic.



2.4	Reduce fertilizer use – School outreach, landowner outreach, and business/nonprofit outreach			Countywide	2025 and beyond		Existing interest in water testing at Montgomery High School for Black Hole Creek and White Deer Hole Creek (Chris Ulrich)			DEP	<p>-In 2023, the LCCD Environmental Education Mini Grant Program funded 5 projects for a total of \$8242. Jersey Shore Outdoor Club, , Northcentral Pa Conservancy, Camp Susque and Lycoming College Clean Water Institute completed their projects.</p>	
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-Through a Department of Ag grant , we held two Spotted Lanternfly workshops. One for businesses and the other for the public. Lycoming County hosted WNEP16 in October to highlight the SLF presents in the County. Montgomery High School assembled 50 spotted lantern fly circle traps.

2024  
(11/25/24)

-LCCD provided 24 envi. education programs reaching over 845 participants.

-Waterdale Environmental Education Center– hosted 4 field trips, the BLAST IU 17 Meaningful Watershed Education Experiences- 2 day Summer Workshop.

-At the Lycoming Sullivan Envirothon we had 150 students participate from 6 School Districts. Montgomery Team A represented Lycoming County at the PA Envirothon at Camp Mount Luther in Snyder County, PA in May.

-LCCD continues to partner with the PA Trout in the Classroom Program. Students raise trout from eggs to fingerlings and learn about cold-water conservation. Assisted with programs and trout release fieldtrips for with Jersey Shore Life Skills, Jersey Shore Biology and Montgomery Environmental Science and Agriculture classes, and new this year- Hughesville Library.

-In October, we hosted the Jersey Shore Environmental Science Class and Life Skills class at the County Farm following a trip on the Hiawatha.



2.5	Reduce fertilizer use – Landowner outreach and Business/Nonprofit Outreach	<ul style="list-style-type: none"> <li>• Testing samples by 1 or 2 people to have consistency</li> <li>• Develop soil sample baseline for small and large farms</li> <li>• Expanded soil testing –Free soil tests to landowners during certain times of the year</li> <li>• Showcase documents for marketing (demonstrating before and after)</li> </ul>	<ul style="list-style-type: none"> <li>• Lycoming County</li> <li>• Penn State Master Gardeners</li> </ul>	Countywide	2025 and beyond	<ul style="list-style-type: none"> <li>• Need regular outreach using multiple and diverse platforms</li> <li>• Efforts may not increase program interest or elicit behavior change</li> </ul>	<ul style="list-style-type: none"> <li>• Penn State Extension landowner webinar series on fertilizer alternatives and application practices; soil testing</li> <li>• USGS for groundwater data</li> <li>• DEP outreach materials</li> <li>• RC&amp;D resources/outreach/materials/technical assistance</li> </ul>	<ul style="list-style-type: none"> <li>• County enviro funding</li> <li>• DCNR Environmental Education grant</li> <li>• PennVest</li> </ul>	<ul style="list-style-type: none"> <li>• Have NRCS and USDA come to county and other entities to re-emphasize their programs and projects and resources</li> <li>• Funding for edu/outreach staff and grant coordinator - \$160,000/year</li> <li>• Funding for professional marketing - \$80,000/year</li> </ul>	DEP	<ul style="list-style-type: none"> <li>• No progress updates</li> <li>• <u>2024</u></li> <li>• (11/25/24)</li> <li>• No updates</li> <li>• <u>2025</u></li> <li>• No update</li> </ul>	
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		<ul style="list-style-type: none"> <li>Reduce fertilizer use by 10% by 2025</li> </ul>					<ul style="list-style-type: none"> <li>"Be More Floridian" marketing campaign as a case study</li> </ul>					
		<ul style="list-style-type: none"> <li>Align similar efforts with CAP (like watershed organizations) to maximize work being done by leveraging efforts and funding sources</li> <li>2 collaborating meetings per year, or more if needed</li> </ul>	<ul style="list-style-type: none"> <li>State agencies</li> </ul>			<ul style="list-style-type: none"> <li>Collaboration takes time and person power</li> </ul>	<ul style="list-style-type: none"> <li>Social media</li> </ul>		<ul style="list-style-type: none"> <li>Need a way to make long-term collaboration easier without needing more meetings –</li> <li>Explore possibility of using drive sharing platforms like share point, Google docs, or something similar</li> </ul>		<ul style="list-style-type: none"> <li><u>2022</u></li> </ul>	<ul style="list-style-type: none"> <li>Consistent meetings with watershed organizations achieved following turnover</li> </ul>

		<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>County departments</li> </ul>			<ul style="list-style-type: none"> <li>Staff turnover can impact continuity and momentum</li> </ul>	<ul style="list-style-type: none"> <li>Other counties are also working on the same efforts</li> </ul>		<ul style="list-style-type: none"> <li>Staff time specifically allocated to collaboration</li> </ul>			
		<ul style="list-style-type: none"> <li>Reduce duplicative work and leverage existing work</li> </ul>	<ul style="list-style-type: none"> <li>Watershed organizations</li> </ul>			<ul style="list-style-type: none"> <li>Keeping contact lists accurate</li> </ul>	<ul style="list-style-type: none"> <li>Current contact lists are available (Lycoming County and LCCD)</li> </ul>		<ul style="list-style-type: none"> <li>Edu/outreach and collaboration staff - \$80,000/year</li> </ul>			<ul style="list-style-type: none"> <li>Further turnover</li> </ul>

2.6	Expand inter-agency collaboration	<ul style="list-style-type: none"> <li>· ID ways to streamline permit processes</li> <li>· Ensure funding/technical resources are shared to municipalities/authorities/others when the county learns about them</li> </ul>	<ul style="list-style-type: none"> <li>· Municipal</li> <li>· Colleges</li> </ul>	Countywide	2025 and beyond	<ul style="list-style-type: none"> <li>· Keeping project lists up-to-date</li> <li>· Collab will be easier with orgs with staff rather than those that are all volunteer</li> </ul>					<p>LCCD has built collaborations with local watershed groups (Loyalsock, Muncy Creek, Pine Creek) and the Waterdale Education Center to provide community education</p> <p><u>2023</u></p> <p>Worked with LCCD directly to bid out stream restoration projects in 2023 to offer grade control, bank stabilization and create habitat.</p>	
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• Trout Unlimited

• Loyalsock Creek  
Watershed  
Association

• Lycoming Creek  
Watershed  
Association

• Muncy Creek  
Watershed  
Association

• Larry's Creek  
Watershed  
Association

• Lycoming  
Audubon Society

Collaboration limited due to staff turnover within departments, not having a dedicated CAP Coordinator, and government shutdowns.

			<ul style="list-style-type: none"> <li>• Middle Susq Riverkeeper</li> <li>• SGP</li> <li>• Other counties</li> </ul>									
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**B. Research and Training**

		<ul style="list-style-type: none"> <li>• Improve onboarding process for minor stormwater plan review</li> </ul>	<ul style="list-style-type: none"> <li>• Lycoming County</li> </ul>			<ul style="list-style-type: none"> <li>• Administrative challenges</li> </ul>	<ul style="list-style-type: none"> <li>• LCCD – delegated duties</li> </ul>		<ul style="list-style-type: none"> <li>Stormwater policy expert (engineer possibly) –\$10 million per year for engineering</li> </ul>		<ul style="list-style-type: none"> <li><u>2022</u></li> </ul>	
		<ul style="list-style-type: none"> <li>• Define further who is qualified to do minor stormwater reviews/give guidance to landowner</li> </ul>	<ul style="list-style-type: none"> <li>• Muni partners</li> </ul>			<ul style="list-style-type: none"> <li>• Muni coordination</li> </ul>	<ul style="list-style-type: none"> <li>• DEP – 167 plans, MS4 plans</li> </ul>		<ul style="list-style-type: none"> <li>Stormwater review training</li> </ul>		<ul style="list-style-type: none"> <li>Potential MS4 opportunities with municipal adoption in the county</li> </ul>	<ul style="list-style-type: none"> <li><u>2023</u></li> </ul>

2.8	Improve County storm water training	<ul style="list-style-type: none"> <li>• All entities to come up with coordinated process for simplification</li> <li>• Pre-designed stormwater controls for landowners</li> <li>• Education to landowners (implementing building permits example) as integral to stormwater planning - check with municipalities especially during subdivision process</li> </ul>	Countywide	2025 and beyond	<ul style="list-style-type: none"> <li>• Cost to landowners for small projects</li> </ul>	<ul style="list-style-type: none"> <li>• Personnel (development services supervisor; subdivision and land development admin)</li> <li>• Stormwater inspection training is available</li> <li>• Clean Water Institute</li> </ul>		<ul style="list-style-type: none"> <li>Training for BMP inspections (MS4 and non-MS4)</li> <li>Training on BMP construction</li> <li>Training on amended soils</li> </ul>	No progress	<p>(11/25/24)</p> <p><u>2024</u></p> <p>No updates</p> <p><u>2025</u></p> <p>No updates.</p>	
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Priority Initiative 3: Reporting and Tracking

	Increase planning	<ul style="list-style-type: none"> <li>· ID shovel-ready projects</li> <li>· Collect projects and data from multiple entities</li> <li>· Ensure partner data is updated at least every 6 months and uploaded onto GIS after updated</li> </ul>	<ul style="list-style-type: none"> <li>· Lycoming County</li> <li>· LCCD</li> <li>· USGS</li> </ul>			<p>Privacy concerns</p> <p>Incomplete or unavailable data</p> <p>Collaboration takes a lot of time</p>	<ul style="list-style-type: none"> <li>· Lycoming County staff</li> <li>· Data from LCCD</li> <li>· Practice Keeper data</li> </ul>		<p>Need cross-platform data consistency</p> <p>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)</p> <p>May need data organization/GIS training</p>		<p>Staff turnover resulting in existing project contact and project identification disconnect</p> <p>County GIS created a Web application based map created to help track locations of BMPS</p>	<p><u>2022</u></p> <p><u>2023</u></p>
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3.1	efficiency, reduce duplicative work, and to better target and coordinate projects – Establish project map at county level	<ul style="list-style-type: none"> <li>• Ensure partners and data contributors agree on a database structure format and attribute data classification in order to better standardize the existing/future data</li> </ul>	<ul style="list-style-type: none"> <li>• Schools for internships</li> </ul>	Countywide	2021 and Updated Continuously	<p>Limited administrative capacity</p> <p>Communication and coordination among various entities can be challenging</p> <p>Continually updating the map/data</p>	<ul style="list-style-type: none"> <li>• Get interns for this type of work (reach out to Bloom for interns, Lyco, Penn, others)</li> <li>• Penn State Capstone Projects</li> </ul>				<p>County currently working on Drone Committee to advance mapping technology.</p> <p><u>2024</u></p> <p>(11/25/24)</p> <p>No Updates</p> <p><u>2025</u></p> <p>Staff turnover within departments &amp; not having a dedicated CAP Coordinator has limited this initiative.</p>	
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		<ul style="list-style-type: none"> <li>House compiled data in one place</li> </ul>	<ul style="list-style-type: none"> <li>Lycoming County</li> </ul>		<ul style="list-style-type: none"> <li>Privacy concerns</li> </ul>	<ul style="list-style-type: none"> <li>Lycoming County GIS and staff</li> </ul>		<ul style="list-style-type: none"> <li>Need cross-platform data consistency</li> </ul>			<ul style="list-style-type: none"> <li>2022</li> </ul>	
		<ul style="list-style-type: none"> <li>Map MS4 projects</li> </ul>	<ul style="list-style-type: none"> <li>Multiple entities</li> </ul>		<ul style="list-style-type: none"> <li>Incomplete or unavailable data</li> </ul>	<ul style="list-style-type: none"> <li>Chesapeake Conservancy data</li> </ul>		<ul style="list-style-type: none"> <li>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)</li> </ul>				
		<ul style="list-style-type: none"> <li>Update stormwater maps</li> </ul>			<ul style="list-style-type: none"> <li>Collaboration takes a lot of time</li> </ul>	<ul style="list-style-type: none"> <li>DCNR River Conservation Plan</li> </ul>		<ul style="list-style-type: none"> <li>May need data organization/GIS training</li> </ul>			<ul style="list-style-type: none"> <li>2023</li> </ul>	<ul style="list-style-type: none"> <li>Coordinating monthly with LCCD in check-in calls to discuss project status and tracking.</li> </ul>

3.1a	Increase planning efficiency, reduce duplicative work, and to better target and coordinate projects – Improve project tracking	<ul style="list-style-type: none"> <li>· Reduce duplicative data</li> <li>· Evaluate and integrate equitable distribution of community/environmental assets and “disasters”</li> <li>· Track previous projects (e.g. streamside restoration)</li> <li>· Track LCCD and NRCS projects</li> </ul>		Countywide	2025 and beyond	<p>Limited administrative capacity</p> <p>Communication and coordination among various entities can be challenging</p> <p>Continually updating the map/data</p>	<ul style="list-style-type: none"> <li>· Trout Unlimited Coldwater Heritage Grant Program</li> </ul>	PPL Foundation		<p>(11/25/24)</p> <p>Coordinating monthly with LCCD in check-in calls to discuss project status and tracking.</p>	<p><u>2024</u></p> <p><u>2025</u></p> <p>Continuing monthly check in calls with LCCD.</p>
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· 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

		<ul style="list-style-type: none"> <li>· Pine Creek Watershed Rivers Conservation plan</li> <li>· Establish database and maintain 4 years of consistent tracking</li> </ul>										
		<ul style="list-style-type: none"> <li>· Have better tracking/ID of where the wetlands are located</li> <li>· ID watersheds that experience natural erosion</li> </ul>	<ul style="list-style-type: none"> <li>· LCCD</li> <li>· Lycoming County</li> </ul>		<ul style="list-style-type: none"> <li>Privacy concerns</li> <li>Incomplete or unavailable data</li> </ul>	<ul style="list-style-type: none"> <li>· Lycoming County GIS and staff</li> <li>· Chesapeake Conservancy data</li> </ul>		<ul style="list-style-type: none"> <li>Need cross-platform data consistency</li> <li>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)</li> </ul>		<ul style="list-style-type: none"> <li>No progress</li> </ul>	<ul style="list-style-type: none"> <li><u>2022</u></li> </ul>	

3.1b	Increase planning efficiency, reduce duplicative work, and to better target and coordinate projects – Watershed/wetland tracking	<ul style="list-style-type: none"> <li>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</li> <li>Map every farm and put projects into the map</li> <li>Establish database and maintain 4 years of consistent tracking</li> </ul>	<ul style="list-style-type: none"> <li>Chesapeake Conservancy</li> <li>Trout Unlimited</li> <li>FWS</li> </ul>	Countywide	2025 and beyond	<p>Collaboration takes a lot of time</p> <p>Limited administrative capacity</p> <p>Communication and coordination among various entities can be challenging</p>	<ul style="list-style-type: none"> <li>DCNR River Conservation Plan</li> <li>Trout Unlimited Coldwater Heritage Grant Program</li> </ul>		May need data organization/GIS training		<p>Coordinating with LCCD to implement stream restoration projects on Brown Farm and Spring Garden Hunting Club.</p> <p>(11/25/24)</p> <p>Coordinating with LCCD to implement multiple stream restoration projects</p>	<p><u>2023</u></p> <p><u>2024</u></p>
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			<ul style="list-style-type: none"> <li>· DEP</li> </ul>		Continually updating the map/data						<u>2025</u>  Continue to coordinate with LCCD & reach out to other agencies to re-establish relationships.
			<ul style="list-style-type: none"> <li>· Lycoming College</li> </ul>		Contacts could change frequently  Maintaining list can be time consuming						<u>2022</u>  Contact list of ~260 maintained ongoing  No-till contact list planned and currently being cross referenced
		<ul style="list-style-type: none"> <li>· Maintain existing list to</li> </ul>						Edu/outreach			<u>2023</u>

3.2	Maintain an ag operator list	ensure effective and efficient outreach for upcoming incentives and programs	· LCCD	Countywide	2025 and beyond		· A current list already exists (LCCD)		and collaboration staff - \$80,000/year		LCCD continues to update ag operator list annually  <u>2024</u> (11/25/24)  LCCD continues to update ag operator list annually  <u>2025</u>  LCCD continues to update ag operator list annually.	
3.3	Turf field Nutrient Management – Tracking	· Implement a documentation program for commercial and homeowner nutrient applications in developed lands	· 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		<u>2022</u>  Staff constraints, no progress  <u>2023</u>  No progress updates  <u>2024</u> (11/25/24)  No updates  <u>2025</u>  No updates	
Priority Initiative 4: Programmatic, Policy, Regulatory Changes												

4.1	Reassess parking requirements in ordinances to reduce the amount of impervious surface	<ul style="list-style-type: none"> <li>Expand pervious surfaces by incentivizing pervious pavement on new development</li> <li>Rehabilitate oversized/underused parking lots</li> <li>Ensure municipal ordinances are not conflicting</li> </ul>	<ul style="list-style-type: none"> <li>Lycoming County</li> <li>Municipalities</li> </ul>	Countywide	Continuous	Ensure that "heat islands" are mitigated with plantings	<p>Many case studies and examples exist</p> <p><a href="https://docs.google.com/presentation/d/16yqwMGlcIRNvUi5KyATDC-A509uSYI5pM0iGCLoKAbw/edit#slide=id.g47c21f69ac_0_6">Rethinking Parking Requirements Using Drone Imagery: https://docs.google.com/presentation/d/16yqwMGlcIRNvUi5KyATDC-A509uSYI5pM0iGCLoKAbw/edit#slide=id.g47c21f69ac_0_6</a></p>	CAP Credits (EPA)	Research on pavers (see University of New Hampshire)	DEP	<p>No progress</p> <p>2022</p>	<p>2023</p> <p>County is no longer involved with parking ordinances</p>
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		<ul style="list-style-type: none"> <li>- 5 acre reduction of impervious surfaces by 2028</li> </ul>				<ul style="list-style-type: none"> <li>Ordinances limit</li> </ul>						<ul style="list-style-type: none"> <li><u>2024</u></li> </ul>
						<ul style="list-style-type: none"> <li>Expense</li> </ul>					(11/25/24)	<ul style="list-style-type: none"> <li>No updates</li> </ul>
						<ul style="list-style-type: none"> <li>Cost (engineering and design)</li> </ul>						<ul style="list-style-type: none"> <li><u>2025</u></li> </ul>
						<ul style="list-style-type: none"> <li>BMP Certification</li> </ul>						<ul style="list-style-type: none"> <li>No updates</li> </ul>
						<ul style="list-style-type: none"> <li>Consider Complete Streets Standards</li> </ul>						
		<ul style="list-style-type: none"> <li>- Retrofit existing stormwater facilities/reetrofit parking lot to add newer stormwater mitigation (plantings, pervious pavement, green roof, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>- Lycoming County</li> </ul>			<ul style="list-style-type: none"> <li>Administrative challenges</li> </ul>	<ul style="list-style-type: none"> <li>Lycoming County staff</li> </ul>	<ul style="list-style-type: none"> <li>Stormwater policy expert (engineer possibly)</li> </ul>				<ul style="list-style-type: none"> <li><u>2022</u></li> </ul>

		<ul style="list-style-type: none"> <li>• Mitigating clear cutting impacts from solar farms with buffers</li> </ul>	<ul style="list-style-type: none"> <li>• LCCD – delegated duties</li> </ul>			Muni coordination	Stormwater inspection training is available	Stormwater review training			Residential build waivers currently being considered	
		<ul style="list-style-type: none"> <li>• Integrate soil amendment and restoration into stormwater requirements</li> </ul>	<ul style="list-style-type: none"> <li>• DEP – 167 plans, MS4 plans</li> </ul>			Can quickly become costly to landowners for small projects and single family homes to comply with stormwater requirements		Pre-designed stormwater controls for landowners			<p style="text-align: right;"><u>2023</u></p>	No progress updates

4.2	Reassess stormwater ordinances	<ul style="list-style-type: none"> <li>• Ensure municipal ordinances are not conflicting</li> <li>• Integrate non-structural stormwater management, like stormwater easements (grass/forested buffers)</li> <li>• Dry well option for residential development</li> <li>• 1 acre treated by 2025</li> </ul>	<ul style="list-style-type: none"> <li>• All entities to come up with coordinated process for simplification</li> <li>• Muni partners</li> </ul>	Countywide	Continuous	Educate landowners on process		Education to landowners (implementing building permits example) as integral to stormwater planning – check with municipalities especially during subdivision process			<p>(11/25/24)</p> <p>No updates</p>	<p><u>2024</u></p> <p><u>2025</u></p>
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		<ul style="list-style-type: none"> <li>· 10 acres forested buffers by 2025</li> <li>· 10 acres of grass buffers by 2025</li> <li>· 10 acres of new amended soils by 2025 ("Stormwater Performance Standard-Runoff Reduction")</li> </ul>										
		<ul style="list-style-type: none"> <li>· Simplification of major/minor stormwater plan process;</li> </ul>	<ul style="list-style-type: none"> <li>· Lycoming County</li> </ul>			Administrative challenges	Lycoming County staff		Stormwater policy expert (engineer possibly)			<u>2022</u>  Residential build waivers currently being considered

4.3	Stormwater Ordinance update (Act 167)	<ul style="list-style-type: none"> <li>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")</li> </ul>	<ul style="list-style-type: none"> <li>LCCD – delegated duties</li> </ul>	Countywide	Continuous	<ul style="list-style-type: none"> <li>Muni coordination</li> </ul>	Stormwater inspection training is available	Lycoming County funding	Stormwater review training		2023	<ul style="list-style-type: none"> <li>Review process for possible streamlining</li> </ul>	<ul style="list-style-type: none"> <li>DEP – 167 plans, MS4 plans</li> </ul>	Can quickly become costly to landowners for small projects and single family homes to comply with stormwater requirements	Pre-designed stormwater controls for landowners	Considering an Update to Storm Water Plan in near future
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4.4	Integrate Hazard Mitigation Plan Update	<ul style="list-style-type: none"> <li>- Streambank stabilization/erosion prevention</li> <li>- Increase community outreach/edu</li> <li>- Work with watershed organizations to develop a communication strategy for citizens/visitors</li> </ul>		Countywide	2025 and beyond						<p>Preparing to update county plan on 5-year cycle later this year.</p> <p style="text-align: right;"><u>2024</u></p> <p>(11/25/24)</p> <p>Hazard Mitigation Plan updated started by County Planning Dept,</p> <p style="text-align: right;"><u>2025</u></p> <p>Hazard Mitigation Plan being updated, plan to adopt early 2026.</p>	
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4.5	Continue MS4 Programs	<ul style="list-style-type: none"> <li>Streamline permitting process</li> <li>Improve mapping and standardize data collection and management</li> </ul>		Countywide	2025 and beyond	Data and mapping from Lycoming County staff		GPS mapping equipment - \$10,000	DEP	<p>County is no longer involved with permitting for MS4</p> <p style="text-align: right;"><u>2024</u></p> <p>(11/25/24)</p> <p>Reed Street Wetlands project completed by Loyalsock Twp. (MS4 project &amp; CAP-funded)</p> <p style="text-align: right;"><u>2025</u></p>
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4.6	Improve planning effectiveness and efficiency	<ul style="list-style-type: none"> <li>- ID potential to re-establish county-level stormwater coordinator to work with MS4 municipalities</li> <li>- Coordinate with updated State Water Plan (currently being updated)</li> <li>- Integrative water resource planning</li> </ul>	Regulatory entities (LCCD, DEP, PCD, etc.)	Countywide	2025 and beyond	Communication (agency and entity coordination), data availability					<p>Coordinating with project partners to implement 4 stream restoration projects in the Lycoming County</p> <p style="text-align: right;"><u>2024</u></p> <p>(11/25/24)</p> <p>Continued coordination with project partners to implement stream restoration projects in the Lycoming County</p> <p style="text-align: right;"><u>2025</u></p>	
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												Continued coordination with project partners to implement stream restoration projects in the Lycoming County.	
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