		Green - action has been o	completed or is m	oving forward a	s nlanned Vo	llow - action has encountered	l minor obstacles	Red - action	has not been take	en or has encoun	tered a serious harrier
		dreen - action has been c		oving for ward a	s platified 10						lered a serious partier
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources			s Needed	Annual Progress to Date (2021 + 2022)
			Partiferships			Recommendations	Technical	Financial	Technical	Financial	
riorit	y Initiative 1: Coun	ty Programmatic Initiatives	5								
1.1A	Implement County Comprehensive Plan policies and actions Update County Comprehensive plan beginning 2021/2022	address existing water quality impairments through stormwater BMP implementation already required by local ordinance Preserve Environmentally sensitive areas from new development through zoning, ordinances and land trusts.	_	Countywide	to County	Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas Local governments willing to propose ordinances to protect economically and environmentally friendly landscapes	Education, outreach		1 – FTE Clean Water Coordinator for UCPC	\$130,000 per year \$2,000 per acre of forest conserved through easement 2 Total \$3.0M \$2,000 per acre of wetland conserved through easement 2 Total \$250K	2022: Starting the plan update. Municipalities were made aware that the process was beginning. Estimated to take 18 20 months. HRG will plan to attend public participation events to review how the CAP can support or benefit from Comprehensive Plan initiatives.
1.1B	Advance local	Protecting Union County's		Countywide	1-2 years	Reinforcing the municipal				\$40,000 to support Comprehensive plan implementation \$130,000 per	2022: HRG developed a list of water suppliers for Union
	comprehensive planning efforts Implement the Source Water Protection (SWP) Plan Preparation and implementation of an effective stormwater management (SWM) plan		to assist with SWP, New Berlin and Mifflinburg Borough			role in coordinating with the water authorities to perform education and outreach. The problem is the protection areas often lie outside the political boundary of the municipality that owns the system. Some of the adjacent municipalities have no zoning. The plans might be dated but the implementation realities are unchanged.			Water Coordinator for UCPC SWP development	\$100,000 SWP	County and will verify the need for SWPPs with DEP. After the list is confirmed, HRG will be performing outreach in 2023 to discuss the importance of the SWPPs and urge water suppliers to contact DEP to request assistance with the development of SWPPs. HRG will review existing plans with the water suppliers and help them determine if they need additional funding to implement the plans.

1.1C*	Evaluate areas to	Identify landowners willing to	Municipalities,	Countywide	5-10 years	Adopting ordinances, may	Landowner		1 – FTE Clean	\$130,000 per	2022 : Established a Riparian Ranger Program in the summer
	establish riparian	participate and work with the	UCCD, CBF,	Countywide	2-10 Aeals	require a pilot project in a	outreach; on			year	of 2022. The Riparian Ranger Program planted approximately
	buffers to stabilize	following partners to	Pheasants			willing municipality to	the ground		Coordinator for	yeai	10-site locations that required maintenance. To date 17
		implement new buffers	Forever, National				riparian project		UCPC		volunteers are currently signed up. It is anticipated additional
	encroachment	implement new bullers	Trout Unlimited,			to revise and promote	execution		UCPC		volunteers are currently signed up. it is anticipated additional volunteers will sign up in the fall. There is an additional
	encroachment	Work with Chesapeake	Buffalo Creek			ordinances where feasible.	execution		1 Class Water	¢130 000 nor	training opportunity planned for the fall. In the fall of 2022, 5
		·	Watershed			Some ordinances promote			1 – Clean Water		÷ 11
		Conservancy through rapid de-							Coordinator for	year	acres of buffers will be planted. CBF K10 trees are coming in
		listing approach to identify new	Association,			destruction of buffers due			UCCD		the fall for additional buffer plantings. Lewisburg Borough
		landowners.	Merrill Linn			to "mowing" ordinances.					completed a buffer and stream restoration project as part of
			Conservancy							Expand Buffer	the Bull Run Greenway Plan.
		Identified over 1,600 acres of	(MLC)			Buffer funding programs				Bonus Program	
		opportunity within Union				must include 5-10-year				to provide	
		County to implement a 35 ft				minimum maintenance				\$10,000 per	
		wide buffer.				plan, incentive money for				acre of buffer	
						landowners, along with				installed to	
						volunteers to establish the				include 5-year	
						buffer.				maintenance	
										contract:	
										\$2.85M total	
1.1D	Adopt and update an	Look to review and update all	Municipalities,	Countywide	5 years	Landowner education will		Sewage	1 – FTE Clean	\$130,000 per	2022: No progress to date. Municipalities are not interested
	on-lot sewage	Act 537 plans by municipality.	Sewage	Countywide	5 years	be needed to promote		Enforcement		year	in enforcing nor developing 537 plans.
	-	Explore plan creation for	Enforcement			proper on-lot septic system		Officer	Coordinator for	year	in emorcing nor developing 337 plans.
	(Act 537)	municipalities for those who do				maintenance		Officer		\$1,000,000	
	(ACC 337)	not have a plan, look to	Officer			maintenance				funding to	
		incorporate new pumping				Municipal buy-in to update				update willing	
		guidelines.				Act 537 plans.				municipalities	
		gardenires.				rice 557 pians.				mamerpanties	
						Lack of timely DEP					
						enforcement of the 537					
						Program.					
						Ĭ					
1.2	Union CHMP	Improve flood prone areas with	LICEC Union	Countywide	2022-2025	Flood controls can capture	CRS program		Engineering	\$150,000	2022 : Plan has recently been updated. For 2023, coordinate
1.2	Official Critivia	BMPs that also enhance water	County	Countywide	2022-2023	pollution, if considered in	guides		Feasibility Study		on potential project implementation support.
		quality		West Milton		design and maintained.	guides		reasibility study		on potential project implementation support.
				and Kelly		design and maintained.			1 – FTE Clean		
		Proceed with project to		Township		Current Requirements by				\$130,000 per	
		improve West Milton and Kelly		TOWNSHIP		Pennsylvania Emergency			Coordinator for		
		Township		Lewisburg		Management Agency			UCPC	year	
		Township		Borough Flood		(PEMA)/ Federal Emergency			OCFC		
		Flood control measure in place		Resiliency		Management Agency			Project		
		for Mifflinburg Borough and		Green		(FEMA) are tough to receive			Implementation	¢500 000	
						funding – funding available			implementation	\$500,000	
		West Buffalo Township (Act		Infrastructure							
		167)				only if hazard is identified					
						by FEMA/PEMA and needs					
						extremely project specific.					
						Also, can't plant buffers in					
						buy-out areas without FEMA approval.					
						FLIVIA approval.					

1.3*	Revise existing model stormwater ordinance when feasible. Look to incentivize additional protections for streams. Support implementation of existing ordinances where feasible.	UCPC, municipal engineers, UCCD, Union County Farm Bureau, Buffalo Creek Act 167, Bull Run and White Deer Act 167 Watershed Plan	Buffalo Creek, Bull Run,	2022-2025	Should local involvement exist, funding to support coordination of Act 167 requirements.	Institutional knowledge		\$130,000 per year	2022: The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Snyder county currently has no Act 167 plan, but with new funding plans to explore opportunities to develop an Act 167 Plan. Limited interest in pursuing 167 from municipalities.
1.4*	Total preservation farm goal (91 farms in program currently – 10,000 acres) Look to fund 300 acres (2-3 farms) per year in preservation program. – 1,300 acres of farmland conservation Preservation of Agriculture and Open Space Land Use through the encouragement of local governments to implement effective land use ordinances Utilize conservation easements to protect land	Agricultural Preservation Coordinator, Natural Resource Conservation Service (NRCS), UCCD, Farm Bureau, Land Trusts	Prime farmland soils countywide	2022-2023 – explore incentive opportunities	Operator acceptance, additional resources for plan development incentivize BMP installation as a farmland preservation goal. Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide. Lack of funds to preserve land. Landowner willingness decreases due to the reality of the limited funds, if they don't rank at the "top" of the list, over years they quit applying.		assistance for program management 1 – FTE Clean Water Coordinator for UCCD 1 – administrative assistant 6 – Ag planners	Assume \$250,000 per farm: \$3,000,000 \$130,000 per year \$75,000 per year \$780,000 per year	2022: In the spring of 2022 Union County celebrated surpassing 10,000 acres of total farmland preservation. In 2022, UCCD preserved 5-farms. Of the 5-farms, one farm was a donation and four farms were paid. In 2023, UCCD will preserve an additional 5-farms totaling 380 acres. Two of the farms set to be preserved in 2023 are donations. Explore working with preserved farms for reporting into PracticeKeeper. A good working relationship with these farmers and UCCD has been established. Continue to explore opportunities to engage preserved farms.

4.5*		American tale 250 have their	HCDC HCCD	Carratuurida	2022 2025	Lineite d consuling as	Field	Camaamuatian	C additional	¢700,000 man	2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener
1.5*		Approximately 350 have their	UCPC, UCCD,	Countywide	2022-2025	Limited compliance	Field	Conservation		\$780,000 per	grant totaling \$1.6 million to support additional ag engineering needs along with
	7 7	plans in Union County, goal is to				activities by DEP.	verification,		J	year	increased farm visits. In 2022 the Lancaster Farmland Trust (LFT) will completed 30
		complete 450 by 2025.	planners, Union				troubleshootin		provide TA and		farm visits across the county. LFT also completed 20 farm visits in 2021.
	community (day to		County Farm			Lack of Technical assistance	g		planning		Agriculture Conservation Assistance Program (ACAP) was announced in the
		Support local farms with	Bureau, ACT 38			to support the farming					Pennsylvania State Budget in July of 2022. This program will provide all counties in
		financial assistance from	operators,			community	25 farm visits	0.5 FTE	3 – FTE Design,	\$420,000 per	Pennsylvania with funding totaling \$154 million over the next 3-years to support Ag
	574 farms exist in	institutions	organic farmers,				per year	(\$32,500)	Engineers,	year	project implementation and technical assistance needs.
	Union County		preserved farms,			Private sector Ag plans are			Permits		The Chesapeake Conservancy was awarded \$10 million in RCPP funding to add
		Work with private ag	integrators			not required to be shared					additional technical assistance and BMPs to Union County. Additionally, the
		consultants to document plan				with District staff.	Contracted	\$50/plan to be	3 – FTF	\$315,000 per	Conservancy submitted a Growing Greener application to increase technical
						with bistrice stair.	Planners	paid to	Construction	year	assistance in the Rapid Delisting Watersheds in Union County.
		reporting.				Manla with Ast 20	riailileis	·		yeai	
						Work with Act 38,		contractor	Inspector		Sustainable Chesapeake applied to NFWF MEB Program for Expanding the Adoption of Manure Injection in PA's Most Effective Basins. This grant application will connect
		In order to communicate				preserved farms and					farmers with custom applicators to pay for manure injections and provide the
		effectively with the farming				organic farms to report Ag				\$130,000 per	technical assistance to educate farmers.
		community one on one farmer				E&S and NRCS Conservation			Water	year	
		outreach must be conducted.				Plans. These operations are			Coordinator for		
						required to have them, but			UCCD		
		Work to document Act 38 and				no requirement to report					
		preserved farms conservation				the plans. It is			0.5 FTE - Bay	\$32,500 per	
		and nutrient management				recommended state			Technician to	vear	
		plans.				agencies make changes to			expand this	, 5	
		piaris.				Act38 and preserved farm			position to a full		
						· ·			·		
						programs to require			time	4 000	
						PracticeKeeper reporting.				\$75,000 per	
									administrative	year	
									assistant		
1.60	Bucknell University	Develop undergraduate and	Bucknell –	319 Priority	2022-2025	Continued	Outreach	N/A	5 – Student	\$50,000 per	2022: Susquehanna University students have been participating in
1.04	The state of the s	graduate students to support	Professors	Watershed –	2022-2023	undergraduate/graduate	boots on the	11/7		year	the Riparian Ranger Program with the Union County Conservation
			FIUIESSUIS							yeai	District. The Foundation for PA Watersheds applied to National Fish
		staff with implementation.		Buffalo Creek		engagement as students	ground		Support CAP		and Wildlife Foundation Most Effective Basins for Phase 2 of BMP
		Work with Bucknell students				graduate through program,			Implementation		Verification. Phase 2 would include funding to support internships
		and staff to support 319 WIP		Riparian		implementation funding					for Susquehanna University students working with the Union
		implementation		properties							County Conservation District to document and verify BMPs into
						Lack of technical assistance					PracticeKeeper. Interns would be provided for 2023 and 2024.
				Preserved		professionals to mentor					Bucknell University has completed annual sampling for UCCD.
				_		students					UCCD had an intern from Bucknell University who support with PK
				farms							
				farms		Students					, , , , , , , , , , , , , , , , , , , ,
											efforts. A senior Capstone project with Bucknell University is in the
				Priority		Lack of competitive paying					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked
				Priority Watersheds:		Lack of competitive paying job opportunities that					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek		Lack of competitive paying job opportunities that ensure long term					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked
				Priority Watersheds: Turtle Creek Headwaters,		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek		Lack of competitive paying job opportunities that ensure long term					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters,		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold Run		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold Run		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold Run		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield
				Priority Watersheds: Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold Run		Lack of competitive paying job opportunities that ensure long term sustainability for recently					efforts. A senior Capstone project with Bucknell University is in the process to complete mobile milk processing facility. UCCD worked with Susquehanna University to complete Macro survey in Winfield

1.6B	Managed by Bucknell	Work with Bucknell to ensure that water quality improvements that they manage are captured in	Bucknell	Bucknell Owned Lands in Union County	2022	Getting maximum credits for experimental BMPs	Institutional knowledge	N/A		year	2022 : No progress to date. In years past, there was a professor who worked with the Conservation District. This long term relationship has fallen off due to professor retiring. New contact hasn't been identified.
		PK/FieldDoc		County					implementation		New contact hash t been rachined.
	County Water quality communication plan, leveraging existing documents and covering topics including Hazard Mitigation, Comprehensive Plan,	audience; execute plan and distribute messaging through staff and partners. Utilize the Union County website as a source of consistent communication, website development is underway.	Board of Commissioners staff, PA DEP Northcentral Office, Penn State Extension (Master Gardeners), PA Rural Water Association, Trout Unlimited, Buffalo Creek Watershed Alliance, USDA-NRCS, DCNR, Bucknell, UCCD	·	2022-2023 Commence discussions and planning to develop a communicatio n plan 2023 — develop local content, timing, identify responsible staff	Simplifying the resources that are available			development and continued maintenance 1 – FTE Marketing and Outreach Coordinator	year	2022: The Union County GIS team is developing a joint website for both Snyder and Union Counties to utilize for outreach efforts. Included in the website will be a tool to enter project opportunities, along with more information about the CAPs. HRG is developing a messaging schedule for timely outreach newsletter articles and social media post. HRG will support in drafting public outreach pieces.
	Strategy	can email or text messages to	Farm Bureau, Integrators, Ag Land Preservation, PSU Extension, NRCS, 4R Alliance, Young Farmers, Pesticide	Countywide	2022-2025	Funding to support the technical assistance required to complete one on one farm outreach Outreach to integrators is a challenge due to the number of integrators and multiple country boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages One on one farm outreach is the best way to communicate with farmers. Work to develop a plan to complete one on one farm visits.			Outreach Coordinator 1 – FTE Clean Water Coordinator for UCCD	year \$130,000 per year	2022: Farm visits have been utilized to conduct outreach to farmer about the Countywide Action Plan. In 2021, 15 farm visits were conducted and in 2022 an additional 25 visits are scoped. The Foundation for Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County Investment to Catalyze Agricultural Project Readiness that would support rapid scaling up of farm visit within Union County. Scaling up of farm visits would allow for additional outreach to occur. UCCD provided a soil health demonstration at the County Fair. UCCD will be performing annual field days for the next 3 years to educate farmers. UCCD performe an ag land preservation field day to focus on soil health: taught landowners soil testing. UCCD performed "Soil Your Undies" education event with farmers through the PA Soil Health Coalition

*	Existing BMP	Expand use of existing buffer	Lead -	Countywide	2022 –	EPA acceptance of the	Precision	N/A	Further GIS and	\$46,000 (2022	2022 : In April of 2022, the Foundation for PA Watersheds
	cataloguing (quantity and location) for select BMPs, expanding on general recommendations	layer with urban hydrology layer R&D into distinguishing ag, pasture, and turf covers from	Chesapeake Conservancy Stakeholder peer review –	·	cataloguing 2023 – Practice Keeper batch	approach, further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of	Conservation Tools General		data processing/met hod refinement 5 – Student	only)	applied to the National Fish and Wildlife Foundation Mos Effective Basins grant application to support Phase 2 of a remote sensing analysis. Phase 2 of the analysis would support analysis focusing on six priority BMPs including: Barnyard Runoff Controls, Animal Waste Management
	Assurance Project Plan (QAPP) BMPs = forest buffers,	Manual digitizing where leaf-off <1 ft resolution imagery is	Farm Bureau, PDA,		processing and field views	approach to catalogue existing BMPs and do on the ground verification where required for reporting	BMP field		Support CAP Implementation 6 – additional		Systems, Forest Buffers, Grassed Waterways, Streambar Exclusion Fencing, and Wet Ponds/Detention Basins. Rer sensing efforts would take place in the Buffalo Creek Watershed. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts
	grass buffers, manure storages, grassed waterways, wet ponds	Field verify with staff where required Add data to Practice Keeper or another batch upload option	Environmental Protection Agency (EPA)			purposes, this is an accelerated BMP catch up approach while we continue to provide support to farmers on planning and BMP installs, reduce the	backcheck			\$780,000 per year	grant was not awarded. In conjunction with site visits conducted by the Lancaste Farmland Trust, 30 possible sites were identified to verif BMPs in Union County. Those sites will be visited in December of 2022 and the results will be entered into
		(FieldDoc)				amount of interruption of government entities to compliant farm operations.					PracticeKeeper.
	ag/urban project opportunities using automated means	BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest conservation, stream restoration Back check with staff field views	Chesapeake Conservancy Stakeholder peer review –	·		Different data set scales/precision	Precision Conservation Tools Batch upload processing	N/A	processing/met hod refinement 5 – Student	\$46,000 (2022 only) \$50,000	2022 : No progress to date.
		Batch upload to FieldDoc to calculate credit opportunity	PDA		2024 – 2025 – implementati on focus		BMP field verify GIS Mapping Abilities		Implementation		
	to capture data collection on urban	use data sets are updated,	engineers, Chesapeake Conservancy, Central Keystone Council of Governments	Urban/suburb an landscape		Currently municipalities are not collecting BMP data because it is not required in non-Municipal Separate Storm Sewer System (MS4) communities. Must incentivize communities to	platform	N/A	5 – Student	\$50,000 per year	2022 : The Foundation for Pennsylvania Watersheds app for a NFWF Most Effective Basins grant in April of 2022 support Phase 2 of BMP verification remote sensing and Phase 2 would include analyzing wet ponds and detentibasins in urban areas across Union County. PA DEP has updated FieldDoc to allow for additional reporting of ur practices. The grant was not awarded.
			(CKCOG), Susquehanna Economic Development Association – Council of Governments (SEDA-COG)			report, no existing system in place.			1 – municipal planner	\$130,000 per year	

documentation program for commercial and homeowner nutrient applications in developed lands	Support fertilizer legislation – where legislation requires reporting, be the data clearinghouse Legislation will support the implementation of Urban Nutrient Management – 2,000 acres	PSU Extension	Countywide	TBD	Education of responsible parties, receiving timely information, training on reporting system, will need direction from State on what's expected and any reporting system that's developed. Counties aren't equipped with technology or field experience to manage this initiative Fertilizer	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	Water Coordinator for UCPC		2022 : On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R) and Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrass fertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting will occur with the new bill.
PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure Transport Reporting and Remote Sensing		Chesapeake Conservancy, PSU Survey,	Countywide	2022-2025	Legislation has failed to pass congress in the last two years. Private sector ag planners do not have access to PracticeKeeper. Ag planners do not have time to report into PK. Current Capital RC&D routes are not all inclusive. Current response rates are low and miss a large demographic of Union County farmers. Manure brokers are not required to report data annually. Data is not all inclusive.			interns for reporting and verification	internships See 3.5 for funding needs to improve cover crop reporting for Capital RC&D	2022: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd Party Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into PracticeKeeper. Union County has been utilizing in-house staff as part of the \$30,000 for BMP verification to report "Old Bay Special Projects" into PracticeKeeper along with other practices and plans. LFT is being subcontracted to come on board to complete additional BMP verification and data entry into PracticeKeeper.
Reporting for Dairy Precision Feeding	The state of the s	Chesapeake Bay Program, Penn State Extension, Dairy co-ops	Countywide	2022	It is recommended that milk urea nitrogen (MUN) be an acceptable standard for reporting dairy precision feeding. Guidelines need to be posted on acceptable MUN rates and work with dairy integrators to receive MUN data to report to DEP.	N/A	N/A	Reporting protocol	N/A	2022 : No progress to date, reporting standards still remain an issue to utilize the BMP.

Implement Union	Protect 250 miles of riparian	UCPC, UCCD,	Countywide	2021-2025	Gaining landowner interest,	1 – FTE Clean	\$130,000 per	2022: Working through Merrill Linn Conservancy and
County Greenway Plan	buffers using easements	Buffalo Creek			design/permit/construction	Water	year	Susquehanna Greenway for implementation. Implemen
·	-	Watershed			schedules, dedicated	Coordinator for	ĺ	progress has been slow due to lack of funds, lack of pol
	Install 200 acres of riparian	Alliance, Land			funding to support BMP	UCPC		will, and the COVID-19 pandemic. More work will be do
	buffers along the Susquehanna	Trusts			implementation.			when it is included with the updated Comprehensive P
	River				· .			of the writing of this report, postcard outreach has occ
					Lack of technical assistance			and meetings are being scheduled to try to secure buy
	Protect 50 acres of flood plain				and engineering staff to		conserved	
	next to Koons Easement in				support implementation.		through	
	Mifflinburg						easement: Total	
	Ĭ				Lack of technical assistance		\$125K	
	Permanently protect 1.5 miles				to implement the plan.			
	of riverfront land in Great						For buffer	
	Stream Commons				Lack of adequate funding to		implementation	
					implement the plan.		see initiative	
	Make strategic additions to the						3.8	
	state forest and other public							
	lands						\$2,000 per acre	
							flood plain	
							conserved	
							through	
							easement: Total	
							\$100K	
The state of the s	Conduct farm visits, windshield			2021-2025	Funding, landowner interest			2022 : While project opportunities exist in the waters
	surveys, GIS Studies.	other partners to	Watershed		in BMPs, implementation		at \$1.5M per	funding currently applied to for the 2022 calendar ye
Watershed 319 Plan		be identified			partner coordination	-	year → \$7.5M	Project opportunities include: manure storage installa
	Utilize Precision Conservation		Prioritizing				over 5 years	earthen manure decommissioning, buffers, and grass
	assessments to target strategic		Buffalo Creek		Reverification of existing			waterway reconstruction. Buffalo Creek Watershed
	farm locations.		mainstream,		farm BMPs		\$75,000	Association is actively working with landowners to ide
			Beaver Run,			Environmental		new project opportunities. Due to CD capacity, staff t
	2016 to present – market		Muddy			Specialist		and additional workload of CAP and thinking about A
	program to landowners in		Run/Coal Run,					nothing has been done with 319 implementation in 2
	impaired segments.		Little Buffalo,					
			Rapid Run,					
	Aim for 3 farms per year for		Spruce Run,					
	implementation		Panther Run,					
			Black Run,					
			Stony Run,					
			Conley Run					
					1			

3.3 Accelerated Implementa Rapid Delist Catchment through the Conservatio Partnership	ng trategy Looking to identify 3-6 parcels Precision per priority catchment	Conservation Partnership	Turtle Creek Headwaters, Turtle Creek South (Winfield Creek), Conley Run, and Cold Run Watersheds	2022-2025	Gaining landowner interest, design/permit/construction schedules, dedicated funding to support BMP implementation, Lack of technical assistance and engineering staff to support implementation. Can only work with 1-3 parcel owners per year based on current staffing.	management and GIS Landowner outreach		3 – additional FTE municipal/ environmental planners	\$390,000 per year \$100,000 dollars to complete rapid delisting program management per year ② total cost \$500,000 Other funding identified in below initiatives	2022: Chesapeake Conservancy continues to advance Rapid Delisting efforts. In August, the Conservancy was awarded an RCPP application to support additional technical assistance and AG outreach. For RCPP the county are contributing a significant portion of funding as match to the application. Chesapeake Conservancy applied to Growing Greener for project funding to support 3 full farm restoration projects. Chesapeake Conservancy contracted with Huntingdon County Watershed Specialist to perform Macro, habitat and water chemistry monitoring in Turtle Creek South in the spring.
state and fe requiremen Conservatio	mply with deral s: Conservation Plans (AG E&S) 10,000 new acres	and Evans, Country View, Pilgrims Pride, Empire Kosher, BJE Land O'Lakes, Dairy Farmers of America, Maryland and Virginia Milk Producers Cooperative, BJE Poultry, Chick to Chicken, Tyson, Purdue, Eggs for Vaccines, Smithfield Hatfield, Swift)	Ag Land	2022-2025	Lack of DEP inspections. Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered. Lack of Technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans. Act 38 and Preserved Farms not required to enter plans in PK, Recommended to require programs to enter plans into PK.	year inspected No-till drills and manure spreader equipment	0.5 FTEs per year	6 – additional Ag Planners to work with farmers	\$15 per acre for a total cost of \$150,000 \$15 per acre for a total cost of \$195,000	2022: PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Union County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG will be attending the rollout of this program to maximize opportunities to get farmers additional plans. From 2020 to 2021 progress scenario in CAST Union County has increased Soil and Water Quality Conservation Plan reporting by over 2,600 acres. Additionally, Nutrient Management Core N increased by 1,000 acres and Core P increased by over 2,000 acres. 25 inspections completed in 2022 by UCCD staff (March-June 2022). Received 2021 Growing Greener Grant to work with local plan writers to develop manure management plans and AG E&S Plans. Approximately \$435,000 for cover cropping, plans, manure testing and soil testing. This funding also Created 10 Soil Health Ambassadors to promote plans and soil health practices. 3000 acres of multispecies cover crop planted in the Fall of 2022.

2.5	A alconomia di Maria di	Tuescalations or consens	AD All!	C	2022 2025	Landowner interest DAAD	Educación 1	¢22 F00	C addition 1	¢700.000	2022. In 2024 LICCD residual a Country C
	Advanced Nutrient	Transition manure	4R Alliance,	Countywide	2022-2025	Landowner interest, BMP verification (annual)		\$32,500 per		\$780,000 per	2022: In 2021, UCCD received a Growing Greener grant for
	Management (4R)	management plans (MMP) to	UCCD, Union	Ag Land		verification (annual)	support	year	_	year	soil and manure testing. Testing will help farmers to meet the
	Practice Education	nutrient management plans	County Farm			Lack of Technical assistance to	25.6		work with		4R application rates. Sustainable Chesapeake's manure
	and Implementation	and incentivize implementation				support agriculture planning			farmers to meet		incorporation grant to NFWF MEB will also support 4R
			Private Sector			and implementation	year inspected		4R standards		implementation. In the spring of 2022, the nutrient
		Increase existing 4R practice (N	_								management guidelines were updated to include additional
		Rate by 3,450 acres, N Timing	Visits, PA Game			Additional funding to support	Manure				guidance for 4R reporting.
		by 7,200 acres and N	Commission			soil testing. Soil testing is key	Spreader			\$10 per acre of	
		Placement by 4,300 acres)				to meeting the	equipment			advanced	No testing was conducted in 2022. However, as outreach and
						recommendations of				nutrient	education, 6 farmers buried underwear for 60 days as part of
						supplemental BMPs.				management	"Soil Your Undies". It was found that the field with
										planning per	permanent hay had the best sign of microbiology. This was
						Machine dependent for most				type 🛚 total cost	conducted to be something catchy and out of the box and
						farming operations				for all is	farmers have seemed receptive. These findings have been
										\$149,500	shared at different events conducted by the CD and may be a
						Cost of fertilizer is self-					way forward for outreach in the future.
						regulating farmers to use less					
						fertilizer; therefore, lower					
						rates are applied.					
						Front and the idea of in acceptant					
						Explore the idea of increasing PSNT or Chlorophyl testing to					
						district program participants.					
						district program participants.					
							_				
3.6*	Implement Dractice to	Determine feasibility of having				Capacity to manage the	Transect		6 – additional	5720 000 nar	12022: S135 000 awarded in a Growing Greener Grant to
			UCCD, Union	Countywide	2022 –					\$780,000 per	2022 : \$435,000 awarded in a Growing Greener Grant to
	improve soil health	a county/state cost share	County Farm	Ag Land	investigation	program, landowner interest	survey		Ag Planners to	year	launch a program to help cost-share a cover crop program
	improve soil health and sustainability	a county/state cost share program to enhance adoption	County Farm Bureau, NRCS,		investigation	program, landowner interest	survey		Ag Planners to transition		The state of the s
	improve soil health and sustainability (Tillage Management	a county/state cost share	County Farm Bureau, NRCS, Private Sector	Ag Land		program, landowner interest Lack of technical assistance	survey Landowner		Ag Planners to transition farmers to high	year	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results.
	improve soil health and sustainability	a county/state cost share program to enhance adoption of the annual practice	County Farm Bureau, NRCS, Private Sector Agriculture Farm	Ag Land	investigation	program, landowner interest Lack of technical assistance and farm planners to work	survey		Ag Planners to transition farmers to high		launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption	County Farm Bureau, NRCS, Private Sector	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to	survey Landowner		Ag Planners to transition farmers to high residue	year \$90 per acre traditional per	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice	County Farm Bureau, NRCS, Private Sector Agriculture Farm	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work	survey Landowner		Ag Planners to transition farmers to high residue	year \$90 per acre	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage	survey Landowner education		Ag Planners to transition farmers to high residue County UCCD –	year \$90 per acre traditional per	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods	survey Landowner education Existing No-Till		Ag Planners to transition farmers to high residue County UCCD –	year \$90 per acre traditional per year: \$81K for a 5-year total of	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the	year \$90 per acre traditional per year: \$81K for a 5-year total of	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres Conservation Tillage, 1,800	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts – work	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K (incentive	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres Conservation Tillage, 1,800 acres Low Residue, 900 acres	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts – work with Capital RC&D to improve	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K (incentive payment,	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres Conservation Tillage, 1,800 acres Low Residue, 900 acres of cover crops and 30,200 acres of cover crops with fall	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts – work with Capital RC&D to improve	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K (incentive payment, administration, Capital RC&D	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000
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	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres Conservation Tillage, 1,800 acres Low Residue, 900 acres of cover crops and 30,200 acres of cover crops with fall	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts — work with Capital RC&D to improve Transect Survey Routes Farmers are harvesting cover crops for forage, need accurate efficiency crediting for commodity cover crops Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program Capital RC&D staff to	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K (incentive payment, administration, Capital RC&D reporting) \$50 per acre fall nutrients per year \$1.5M for 5-year total of \$7.55M \$50,000 for improvements to Capital RC&D Transect Survey	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000 acres.
	improve soil health and sustainability (Tillage Management	a county/state cost share program to enhance adoption of the annual practice Implement tillage management and cover crops on an annual rate of 30,300 acres High Residue, 3,600 acres Conservation Tillage, 1,800 acres Low Residue, 900 acres of cover crops and 30,200 acres of cover crops with fall	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Game Commission	Ag Land	investigation 2023 – next	Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts — work with Capital RC&D to improve Transect Survey Routes Farmers are harvesting cover crops for forage, need accurate efficiency crediting for commodity cover crops Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter	survey Landowner education Existing No-Till farm equipment for		Ag Planners to transition farmers to high residue County UCCD – staff to administer the program Capital RC&D staff to complete	\$90 per acre traditional per year: \$81K for a 5-year total of \$405K (incentive payment, administration, Capital RC&D reporting) \$50 per acre fall nutrients per year \$1.5M for 5-year total of \$7.55M \$50,000 for improvements to Capital RC&D Transect Survey	launch a program to help cost-share a cover crop program and in turn will have access to soil sample results. From 2020 to 2021 progress scenario in CAST Union County has increased Cover Crop implementation by over 8,000 acres.
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1.37 Specimen rows Proceeding parties 200 continues				1							Τ.	
In solution for the control persons for forced persons of forced p	3.7	Implement more	Prescribed grazing – 350 acres	UCCD, NRCS,	Countywide ag	2025				6 – additional	\$780,000 per	2022 : The Foundation for Pennsylvania Watersheds applied
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Barrier buffer and re- forestable Marie Ma			·		horses, dairy.					0.		
Description of the parties of the control of 28 acres of the control of 28 acres of the control			Grass huffers on fenced				funding for non-buffer work,			3 – additional		
Late of Procession assessment of the Commission							plan updates, data gathering.				¢200 000 por	awaraca.
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Biparian buffer and some state of the continued of the co				Conservancy							year	· ·
DOUNGS pinn need to be updated to comply eliminary or per acres 1980s (Doll ### After 1971 Bigurian buffer and re 500 rigarian forest buffer acres (275) acres loss since 2017 Creek Wetersteed Contracts					animals		support agriculture planning			technician		and the local NRCS, not a lot has been done to advance these
Byparian buffer and reserve buffer forestimon Millis (Commission, CE) 227 Jacob to since 2017 acres to state 2017 acres to sta							and implementation.				Prescribed	plans.
B. Signish buffer and re- formation BMS Respective formation group growth and recording construction costs are resulting from the resulting formation of th											grazing \$540	
Under the part of							Old NRCS plans need to be				per acre: \$189K	
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## Realter W ## State							prescribed grazing definition –					
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Volunteer Authority Authority Plantings, buffer			/						_			
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planting include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment. Must revise ordinances to not cut down buffers because of "messy" \$937,500 Tree/Forest Planting \$10,000 per acre \$10,000 per acre: \$1.161M			2017 need reverified 400 riparian grass buffer acres, (25) acres lost since 2017 need reverified 15 acres – Agriculture Tree Planting 60 acres – urban forest buffer	Creek Watershed Alliance, MLC, Chesapeake Conservancy, NRCS, UCCD, PA Game		landowners 2023-2025 – implementati	landowner education, volunteer acceptance of buffer plantings, buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment. Flash grazing must be allowed with buffer		available to be	Ag Planners to provide TA and ag planning 3 – additional FTE environmental	\$390,000 per year Forest Buffer \$10,000 per	MEB for Phase 2 of BMP Verification. If awarded Forest Buffers and Grassed Waterways would be remotely sensed to identify existing BMP implementation. Field verification would occur on remotely sensed BMPs. The grant was not awarded. Buffer easement completed for 15 acres of existing forest buffer and paid to convert cropland to permanent pasture. Established a Riparian Ranger Program in the summer of 2022. The Riparian Ranger Program planted approximately 10-site locations that required maintenance. To date 17 volunteers are currently signed up. It is anticipated additional volunteers will sign up in the fall. There is an additional training opportunity planned for the fall. In the fall of 2022, 5 acres of buffers will be planted. CBF K10 trees are coming in the fall for additional buffer plantings. Lewisburg Borough completed a buffer and
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			2017 need reverified 400 riparian grass buffer acres, (25) acres lost since 2017 need reverified 15 acres – Agriculture Tree Planting 60 acres – urban forest buffer 2 acres – urban tree canopy 100 acres – urban forest	Creek Watershed Alliance, MLC, Chesapeake Conservancy, NRCS, UCCD, PA Game		landowners 2023-2025 – implementati	landowner education, volunteer acceptance of buffer plantings, buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment. Flash grazing must be allowed with buffer installation. Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment. Must revise ordinances to not cut down buffers because of "messy"		available to be	Ag Planners to provide TA and ag planning 3 – additional FTE environmental	\$390,000 per year Forest Buffer \$10,000 per acre: 2.85M Grass Buffer \$2,500 per acre \$937,500 Tree/Forest Planting \$10,000 per	MEB for Phase 2 of BMP Verification. If awarded Forest Buffers and Grassed Waterways would be remotely sensed to identify existing BMP implementation. Field verification would occur on remotely sensed BMPs. The grant was not awarded. Buffer easement completed for 15 acres of existing forest buffer and paid to convert cropland to permanent pasture. Established a Riparian Ranger Program in the summer of 2022. The Riparian Ranger Program planted approximately 10-site locations that required maintenance. To date 17 volunteers are currently signed up. It is anticipated additional volunteers will sign up in the fall. There is an additional training opportunity planned for the fall. In the fall of 2022, 5 acres of buffers will be planted. CBF K10 trees are coming in the fall for additional buffer plantings. Lewisburg Borough completed a buffer and stream restoration project as part of the Bull Run Greenway Plan.
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3.9	Wetland restoration	65 acres of Wetland	Chesapeake	Countywide	2022 –2025	Willing landowner;	Landowner	3 -	– additional	\$390,000 per	2022: UCCD completed the Brown Wetland restoration
	implementation on	Restoration	Conservancy,	,		appropriate siting, design,	outreach	FT			project paid for through CAP Block Grant dollars in Fall of
	marginal production		UCCD, NRCS,			and construction for		en	nvironmental	· ·	2022. East Buffalo Township applied for and was awarded a
	ag land	25 Acres of Wetland	Buffalo Creek			successful restoration			chnician		grant to acquire land and incorporate wetland restoration
		Enhancement and	Watershed			result.					· ·
		Rehabilitation	Alliance, MLC, PA					2 -	– stream	\$280,000	
			Game			Lack of technical assistance		bio	ologist		
		Identify 1 large property owner	Commission			for landowner outreach and					
		from University of Vermont				agriculture planning to				Wetland	
		restorable wetland layer to help				identify potential site				Restoration	
		identify where to implement a				locations.				\$30,000 per	
		large project								acre 🛭 \$2.7M	
						Lead time it takes to secure					
						projects can take years.					
3.1	Stream Restoration	10,400 Linear feet (2 miles)	CBF, Chesapeake	Rapid delisting	2022 – 2025	Design/permit/construction	GIS	De	esign, permit,	Assume	2022 : Stream restoration projects completed in 2022:
0.2	(Urban and	Urban Stream Restoration	Conservancy, TU			cycle seems to work in two-				\$900/LF -	
	Agriculture)		National, NFWS,			year increments, there is an	Design/GP-1				Unnamed tributary to Turtle Creek - 2 stream crossings,
	G ,	15,000 Linear feet (~3 mile)	Buffalo Creek	and		assumption that	permit				1,500 linear feet of stream restoration, and riparian buffer
		Agriculture Stream Restoration		Countywide		eroded/degraded streams	ľ			Assume	planting
		-	Alliance, MLC,	·		exist based upon 403(d)				\$400/LF -\$6.0M	-
			PFBC Stream			listing – should that not be					Beaver Run - 1,315 linear feet of stream restoration, riparian
			Restoration			the case in the field, adjust					buffer planting, 2 stabilized stream crossings, and stream
			Team, NRCS			quantitative goal down and					exclusion fencing
						ensure buffers are in place.				\$280,000 per	
								2 -	– Municipal	year	SGL 252 - 2,100 linear feet of stream and habitat restoration
						Lack of funding to cover		En	ngineers		
						engineering design.					Mifflinburg Borough - 600 linear feet of riparian buffer
										\$420,000	
									– FTE Design,		
								Pe	ermit		
									nstruction		
								Se	ervices		
										\$280,000	
									– stream		
								bio	ologist		
	1	1				1					

barnyard runoff	32 acres of barnyard runoff controls. (18 acres need reverified)	UCCD, Chesapeake Conservancy, NRCS, Union County Farm Bureau, NRCS	Countywide Farms	2022-2025	Lack of Technical assistance to support agriculture planning and implementation Lack of funding to cover engineering design Increasing construction costs are cancelling NRCS contracts		6 – additional Ag Planners to provide TA and ag planning 3 – FTE Design, Engineer. Permit 3 – FTE inspector construction Services		2022: The Foundation for Pennsylvania Watersheds applied to NFWF MEB for Phase 2 of BMP Verification. If awarded Barnyard Runoff Controls would be remotely sensed to identify existing BMP implementation. Field verification would occur on remotely sensed BMPs. The grant was not awarded. In the fall of 2021 completed a barnyard runoff project in Turtle Creek Watershed. Upcoming project opportunity in the Turtle Creek Watershed. Walter has planned project in Growing Greener grant to implement Barnyard Runoff Controls.
Systems	20,000 Animal Units of Animal Waste Management Systems (10,000 new AUs of livestock & 10,000 new AUs of poultry)	Program, County		2022-2025	Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value for small farms; readiness to plan/implement projects when outreach efforts yield willing landowners. Lack of funding to cover engineering design.	Project implementatio n – 5 farms per year	6 – additional Ag Planners to provide TA and ag planning 3 – FTE Design, Engineer. Permit 3 – FTE inspector construction Services	\$420,000 per year \$315,000 per year Animal waste	

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3.13*	Urban SWM Non-	Document existing ordinances	UCPC, UCCD,	Countywide	Ongoing	Coordination/ training for	Reporting		5 – Summer	\$50,000 – paid	2022: Working with the Buffalo Valley Lutheran Village
	Regulated	and BMPs associated with	developing			municipal staff, FieldDoc	platform		interns for	internships	Campus Master Greening Plan to retrofit existing stormwater
	Communities	implementation at local	municipalities,			batch upload opportunity,			reporting and		basins. East Buffalo Township completed a raingarden,
		municipal level	CKCOG		2022-2025	non-MS4 engagement			verification		pervious pavement and wetland to control stormwater
						(what's in it for them?),					runoff.
		Catalogue existing BMPs that fit				difficulty obtaining past					
		into this category and newly				information (MS4s typically			2 – Municipal	\$280,000 per	
		built ones				have databases from 2003-			Engineers	year	
						present).					
		Stormwater Treatment									
		Performance Standard – 80							1 – municipal		
		acres treated							planner	\$130,000 per	
										year	
										ĺ	
										Stormwater	
										Treatment	
										\$1,815:	
										\$145,200	
										, , , ,	
3.14	Conservation	Promote new program and	UCPC, DCNR,	Developed	2022 - 2025	Landowner education and	Planting plan		1 – FTE	\$130,000 per	2022 : Working to identify projects for pasture to
	Landscaping/Turf to	enable one large tract	UCCD,	areas in		acceptance	assistance		Municipal	year	forest/meadow conversion. A project that was identified
	Meadow Conversion	landowners' participation	Chesapeake	County		·			Planner	ĺ	stalled out due to the landowner not liking the aesthetics of
		i i	Conservancy,	, municipalities		Existing mowing ordinances					the conversion. This seems to be an underlying concern of
		80 new acres of Conservation	Buffalo Creek			and weed ordinances can			3 – additional	\$130,000 per	landowners and this initiative.
		Landscaping	Watershed			be a challenge to			FTE	vear	
		, , , , , , , , , , , , , , , , , , ,	Alliance, MLC			implementation			environmental	,	
			,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			technician		
3.15*	Continue dirt and	21 miles overall restored	UCCD, Trout	Countywide	2025	Continue D&G Road	Education,	\$1.4 Million	_!!	\$130,000 per	2022 : 2 projects will be completed by June of next year. An
"	gravel road program	through past projects	Unlimited	county mac	2023	program funding	technical	since 1998	Water	year	additional project to be completed in the fall of this year.
	O. S. C Cad biobiaiii					L0. 2 2 2	assistance,	2330	Coordinator for	,	Advertising for new applications in fall of 2022. \$100,000 for
		Continue to implement the				Expand Dirt and Gravel	project		UCCD		dirt and gravel and \$46,000 for low volume for next year.
		program annually				Road Program to include	oversight				and and Braver and 9-10,000 for 10% volume for meat year.
		program annually				farm lanes	Oversignit			Dirt and Gravel	
						iaiiii iaiics	1 – technical			Roads \$10 per	
							staff			foot@ TBD	
										טטניי ויטט	
							administering				
							the program				

3.16*	and local municipalities to improve roadside ditch and embankment	Educate local municipal leaders and work with PennDOT to address state owned roads on the importance of maintaining healthy vegetation along roadside ditches and embankments to prevent erosion and increase nutrient uptake and reduce Invasive species.	Municipalities, DEP and PennDOT	Countywide	2023	PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay Program will need to assist in the education of PennDOT.		Water Coord UCPC 1 – FT Water	r linator for E Clean r linator for	\$130,000 per year \$130,000 per year	2022 : No progress to date.
3.17*	Commission to	Approximately 3,200 acres of state Game Lands are managed in Union County.	PA Game Commission, UCCD, MLC	PA Game Lands 193, 201, 252 and 317	2025	Coordination with Game commission often challenging, requiring leases to implement plans when not currently required by lease contract.		Wate	r linator for	\$130,000 per year	2022 : HRG had several discussion with the regional office. Most farming operations have ceased on state game lands. PA DEP was looking into crediting or land retirement statewide.
3.18	Grant Administration	Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders, continue to work with partners to facilitate additional funding.	Existing project implementer networks	Countywide	2022-2025	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known). Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration.	Financial services	Grant 1 – FT Grant 2 – sta	Manager E UCPC Manager	\$130,000 per year \$130,000 per year \$140,000 per year	2022: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases adoption of conservation practices. potential grant application would bolster farm visits in Unio County to increase the adoption of Conservation Practices. UCCD has an existing grant from foundation for Pa Watersheds to support easements in the county.

Incorporate existing	Location identification, financial	ALLARM,	Countywide	2022	Land access, expanded	\$30,000 intern	Volunteers for	N/A	2022: In the spring of 2023, HRG will convene the Waters
water quality	and volunteer budget analysis,	Keystone Water	·		volunteer need,	salary budget	Water quality		Specialist to identify the largest ""gaps"" of water quality
monitoring data into	and initial landowner	Resources			equipment/materials	, ,	monitoring		monitoring data, develop strategies to comprehensively
Chesapeake Data	communication by end of 2021	Center, Bucknell,			budget, Consistent data	QAQC	Ü		incorporate new data to support CAP efforts.
Explorer/ Chesapeake	·	Buffalo Creek			collection, Quality		New monitoring	\$10,000	
Monitoring		Watershed			Assurance Quality Control		equipment	. ,	ALLARM is in the process of developing citizen scientist m
Cooperative database	_	Association,			(QAQC) continuation.		' '		data collection protocols to assist with stream health data
· ·		USGS,			,		3 – additional		collection. Should the protocol be approved, it will be should be should be should be approved.
&	Map existing monitoring	Susquehanna			Data precision, QAQC,			\$130,000 per	all Counties."
	locations	University			opportunity to educate			year	BCWA has been sampling for 15 years and work closely w
Initiate additional	i coutions	orm crarcy			landowners about local		technician	year	Bucknell University to analyze the samples in their lab. BC
water quality	Expand monitoring based on				stream health and what		teennean		working with Bucknell University to sample for E-Coli; san
monitoring sites that	Corridors of Opportunity (COO)				they can do about it.				human, dairy, swine, poultry and waterfowl DNA in the Bu
promote long-term	area monitoring gaps				they can do about it.		2 – stream		Creek Watershed.
trend evaluation at	area monitoring gaps				Ensure USGS/DEP/SU			\$280,000 per	
	Buffalo Creek Watershed						biologist		
· ·					continue monitoring in Turtle Creek.			year	
County	Association shared 10+ years of data with ALLARM				rurde Creek.				
	data with ALLAKIVI								
	Washada Basha II ka askabilah								
	Work with Bucknell to establish								
	monitoring in Turtle Creek								
	Watershed								
Supporting watershed	Develop new or reestablish	Buffalo Creek	Countywide	Ongoing	Continued coordination	Social media	1 – FTE Clean	\$130,000 per	2022: Streamside Tree Stewardship program - Our goal is to f
associations for short-	existing watershed associations	Watershed			among a lot of active	shares	Water	year	volunteers and train them to perform maintenance on buffer
term success and long-	to support with CAP	Alliance, MLC,			groups, keep project leads		Coordinator for		Partners are the Chesapeake Conservancy and the Union Cou
term sustainability	implementation. Watershed	Trout Unlimited,			list active so that watershed	Project	UCPC		Conservation District. Water Quality Monitoring. Our organization monitors 14 sites
aligning with their	organizations can support with	National Trout			approach to grant	development			year, many of them since 2007, all within the Buffalo Creek W
goals	outreach, engagement, new	Unlimited			applications can be	support	1 – FTE Clean	\$130,000 per	With the help of ALLARM of Dickinson College, our data as of
	project identification and				developed well in advance		Water	year	2020 is now available on the Chesapeake Monitoring Coopera
	implementation. Enhance the				of submittal deadlines.		Coordinator for	,	interactive map. We will be contacting ALLARM to add our m
	capacity of local watershed						UCCD		data
	associations for short-term								DOWA is a small still a book waters and in the Anid Domestics
	success and long-term							\$5000 per	BCWA - is completing headwaters project for Acid Deposition, looking into delisting the stream back to a Class A Trout Stream
	sustainability.								Approximately 5 miles of impairment.
	,							produce	r pproximater, a miles of impairment
								promotional	BCWA has a restoration plan. Linn Conservancy is trying to but
								materials (hats,	from PA American water for permanent easement.
								shirts, stickers)	
								for members 2	Recruiting members still remains an issue.
								\$15,000 total	
								per year	
								per year	
						1			