

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

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

Action #	Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 + 2022)
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Priority Initiative 1: County Programmatic Initiatives: Blair, Cambria, Fulton, and Huntingdon											
1.1A	Implement County Comprehensive Plan policies and actions	<p>Ensure that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance</p> <p>Protect natural resources, protect wetlands through use of zoning ordinances</p> <p>Promote the inclusion of recreational opportunities counties have to offer, look to build local economies of tourism</p> <p>-Conserve 3,000 acres of forest (B) -Conserve 1,600 acres of forest (C) -Conserve 1,500 acres of forest (F) -Conserve 5,800 acres of forest (H)</p> <p>-Conserve 60 acres of wetlands (B) -Conserve 25 acres of wetlands (C) -Conserve 40 acres of wetlands (F) -Conserve 110 acres of wetlands (H)</p>	<p>Planning Commissions, growth boundary municipalities, Southern Alleghenies Bicycle and Pedestrian Plan, ACT 167 Plans, Huntingdon County Heritage Plan, Fulton County Heritage Plan, Convention and Visitors Bureau, Chamber of Commerce, Cambria County Conservation and Recreation Authority, Southern Alleghenies Greenways and Open Space Network Plan</p>	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	ongoing	<p>Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas</p> <p>Local governments willing to propose ordinances to protect economically and environmentally friendly landscapes</p>	Education, outreach		<p>4 – FTE Clean Water Coordinator for Planning Commission</p>	<p>\$520,000 per year</p> <p>\$2,000 per acre of forest conserved through easement: Total \$23.8M</p> <p>\$2,000 per acre of wetland conserved through easement: Total \$470K</p>	<p>2022: Blair County is engaging in a minor update on the Comprehensive Plan in 2023. Will not change major focus points, but will change some action items under the major focus points. Will overlap Comprehensive Plan with other existing plans.</p> <p>Cambria County Conservation District has had meetings with Planning and Redevelopment Authority about partnership opportunities to remove blighted properties. Additionally, the Cambria County Conservation, County Planning, and Recreation Authority. CCCD identified 1 location that requires some streambank stabilization and have included this potential project as a deliverable in a growing greener application.</p> <p>Fulton County: Fulton County implements the comprehensive plan when reviewing and approving projects that come into the county. If a project does not meet the requirements of the comprehensive plan it will not be approved.</p>
1.1B	<p>Advance local comprehensive planning efforts</p> <p>Implement existing Source Water Protection Plan</p>	<p>An annual review of the document and setting 1 goal, Partner with NRCS regarding source water protection and the 2018 Farm Bill</p> <p>Work with identified partners to support implementation of source water protection plans mirrored with CAP goals.</p>	<p>Interested Municipalities and Townships, NRCS</p> <p>Altoona Water Authority, McConnellsburg Borough, Huntingdon Borough Fulton County Heritage Plan</p>	Multi Township and Municipality	2022-2025	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach.			<p>4 – FTE Clean Water Coordinator for Planning Commission</p>	<p>\$520,000 per year</p> <p>\$ TBD for new Source Water Protection Plans</p>	<p>2022: In the fall of 2022 review documents, meet with interested municipalities and set a goal for 2022/2023. HRG did speak with PA DEP to about supporting new SWPP development. PADEP is available and able to assist with development of plans, must identify interested parties.</p> <p>Blair County would like to explore Source Water Protection paired with a Stormwater Management Plan or Hazard Mitigation Plan. Look to explore potential options late in 2022 or early 2023.</p>

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1.1C*	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Utilize Chesapeake Conservancy data set to identify buffer gap project opportunities Utilize Public Fishing Easement agreements to conserve buffers Conserve Riparian buffers where feasible through zoning ordinances	Municipalities, Conservation District, CBF, Pheasants Forever, National Trout Unlimited, Prince Gallitzin State Park, WPC, PA Foundation of Watersheds, Watershed Organizations, Fulton County ACT 167 Plan, Fulton County Heritage Plan, DCNR	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	ongoing	Adopting ordinances, may require a pilot project in a willing municipality to demonstrate success. Lack of technical assistance to support implementation goals for forest buffers. Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.	Can apply for Landscape Scale Restoration (LSR) Grant Program	Utilize PFBC Incentive Program to pay landowners for fishing access	4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District Buffer Funding Incentive Program	\$520,000 per year \$520,000 per year Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract \$2.05 M total	2022: Blair County will complete buffer site evaluations based on the budget of the current INSR and staff time availability. Cambria County: no progress to date. Fulton County is utilizing CAP funding to implement buffers on Big Cove Creek and Keeper Tract. Huntingdon County: Huntingdon Borough's tree commission planted approximately 40 trees this year and will continue efforts into 2023. HCCD implemented approximately 31 acres of new riparian buffer in 2022.
1.2	Implement County Hazard Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality (B) (F) (H) Retrofit existing flood prone areas with new culverts, ditches, etc. (B) (F) (H) Report and verify projects that are implemented for Floodplain management, but can address nutrients and sediment (B) (F) (H) Identify all public lands with flood hazards, Create a land bank (B) Look to develop and adopt ordinance to protect floodplain management (F)	County Planning Commission, municipalities, MPO's Unified Planning Work Program, Southern Alleghenies Comprehensive Plan, County Redevelopment Authorities	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2023-2025	Funding, land for BMPs, funding for engineering feasibility studies Enforcement and compliance of stormwater ordinances Current Requirements by PEMA/FEMA are tough to receive funding – funding available only if hazard is identified by FEMA/PEMA and needs to be extremely project specific.			4 – FTE Clean Water Coordinator for Planning Commission \$2,000,000 hazard mitigation plan	\$520,000 per year	2022: Blair County: Hazard Mitigation Committee is meeting 3 times per year. Recently the committee performed a few amendments in July of 2022. The amendments added additional action items and hazards to the plan. Action item #20 regarding the flood buyout program sparked renewed interest and municipalities are seeking interested parties to participate in the program. This ties into the CAP item on converting impervious cover to parkland. Cambria County: just completed an update to the Hazard Mitigation Plan. Fulton County: The plan was updated in 2020, next plan update will occur in 2025. Exploring H2O grant for funding for stormwater mitigation on Fulton County Fair Grounds. Huntingdon County: completing update to the plan currently.

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1.3*	Update/draft Act 167 Plans	<p>Look to modify existing stormwater ordinances and ACT 167 Plans where feasible or create new model stormwater ordinance or ACT 167 plans that would require/incentivize additional protections for streams</p> <p>Encourage municipal officials to enact stormwater management ordinances consistent with ACT 167 and ACT 102 (F) (H) (C)</p> <p>Implement Fulton County Act 167 Plan</p>	Municipal engineers, Municipalities, Southern Allegheny Comprehensive Plan, Juniata River Watershed Act 167, Bobs Creek and Dunning Creek, Beaverdam Branch 167	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022 – discuss interest to pursue and funding opportunities	Should local involvement exist, funding for Plan update Additional stormwater engineering resources at county level (C)	Institutional knowledge		<p>Act 167 Plan Development</p> <p>4 – FTE Clean Water Coordinator for Planning Commission</p>	<p>\$350,000 per county à \$1.4 Million total</p> <p>\$520,000 per year</p>	<p>2022: The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Huntingdon, Blair and Cambria County currently has no or partial Act 167 plan(s), but with new funding plans to explore opportunities to develop an Act 167 Plan.</p> <p>Hold municipal meetings in the fall of 2022 to discuss potential ordinance updates and explore ACT 167 feasibility. Fulton County has been in meetings with DEP regarding updating their plan but is waiting on grant widow to open to apply for funds.</p>
1.4	Utilize Existing TMDLs to leverage the need for water quality improvements	<p>Leverage TMDLs to help educate municipalities on the need for water quality improvements and potential stormwater ordinance updates</p> <p>Explore the potential feasibility of developing 319 WIPs or Alternative Restoration Plans for TMDL watersheds currently without plans</p> <p>2023 – municipal educational campaign</p>	<p>Beaverdam - Conservation District and City of Altoona (B)</p> <p>Chest Creek Watershed Association (C)</p> <p>Little Trough – Conservation District, NRCS (H)</p>	<p>Beaverdam Branch (B)</p> <p>Cambria County: Chest Creek and Clearfield Creek (C)</p> <p>Little Trough Creek – AG, tough to work with landowners</p>	2023	<p>Financial and Technical assistance to develop 319 or ARP plans for TMDL watersheds</p> <p>Willingness of local volunteers to support in implementation of 319 plans.</p> <p>Lack of existing watershed organizations</p>			<p>3 – FTE Clean Water Coordinator for Planning Commission</p> <p>3 – FTE Clean Water Coordinator for Conservation District</p>	<p>\$390,000 per year</p> <p>\$390,000 per year</p> <p>\$450,000 to develop 3 watershed plans</p>	<p>2022: Blair County: Intergovernmental Stormwater Committee is working to determine if a watershed restoration plan is feasible for Beaverdam Branch (Route 36 to Route 22). Focus of the study is on floodplain restoration and streambank stabilization, geared toward PRP sediment reductions to meet MS4 requirements. Engineer has completed initial modelling.</p> <p>Fulton County is working on 319 plan for Upper Big Cove Creek. Received Growing Greener funding in 2021 to develop the plan, by the end of 2024 the plan will be complete.</p>

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1.5	Juniata River Watershed Management Plan Look to identify a rapid delisting watershed as part of the plan.	WPC applied for DCNR C2P2 grant to update the Juniata River Watershed Management Plan. CAP can help leverage funding for the Juniata River Watershed Management Plan. Work with the Chesapeake Conservancy to rapidly delist a watershed within the Juniata River Watershed Plan.	Western Pennsylvania Conservancy, Chesapeake Conservancy	Juniata River Watershed (Blair, Fulton, Huntingdon, Juniata, Mifflin, Perry)	2021 – Conservancy Exploring options 2022 – outreach 2023 implementation	Performance Target continued: Our goal is basically to update the existing plan with work that has been done since the original plan, do some more in-depth GIS analysis, and get public and municipal input into what they see are the issues in the watershed. I think the GIS analysis will be a big part of the process. We’re planning on using the new 1-meter resolution data set, incorporating some of the buffer gap analysis work from Chesapeake Conservancy, etc.		Huntingdon County AG BMPs \$442,305	3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District	\$390,000 per year \$390,000 per year WPC applied for \$37,785 with \$37,286 match Rapid Delisting Approach Budget \$2,000,000	2022- Juniata Watershed Management Plan update is a DCNR grant that will cover the entire Juniata River watershed. The planning process will include partners from the county conservation districts in the watershed, Juniata College, St. Francis University, Chesapeake Conservancy, HRG, Foundation for PA Watersheds, Little Juniata River Association, and county planning commissions. Project will start with a kick-off meeting late in October of 2022.

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1.6*	Implement County Farmland Preservation Program with farmland preservation program incentives enhancement Preservation of agriculture lands, boosting local agriculture economy, Purchase of Agricultural Easements (PACE)	<p>Total preservation Blair County 56 farms and 8,400 acres –Goal 4 farms per year 16 total. 12-15 are on a backlog list -Conserve 1,500 acres of farmland</p> <p>Total preservation Cambria County 19 farms and 3,296 acres. Goal is to add 1-2 farmers each year, (8) total– about 150 acres per farm. -Conserve 690 acres of farmland</p> <p>Total preservation Fulton County 2 farms and 240 acres. Goal is to add 1-2 farms each year, (8) total farms (20 farms in waiting) -Conserve 1,500 acres of farmland</p> <p>Total preservation Huntingdon County 11 farms and 1,392 acres – Currently 1 farm every 2-3 years, 2 Farms total, could do 2 farms per year with additional funding (8) total -Conserve 2,000 acres of farmland</p>	Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Huntingdon County Heritage Plan, Fulton County Heritage Plan, SCC Ombudsman, Southern Alleghenies RC&D Council	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022-2023 – explore incentive opportunities Ongoing	Funding to support additional BMP implementation. Technical assistance to coordinate preservation plans with funding and technical assistance. 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. Sharing NRCS data is challenging, must comply with 1619 form. Lack of funding to preserve farms each year. Many farmers stop applying because of limited funding and competitive process. Additional staff time would be needed to significantly increase the number of farms per year and continue to inspect the farms annually.	Priority recommendations, easement revision recommendations, supplemental BMP funding research		<p>4 – FTE Clean Water Coordinator for CD</p> <p>4 – administrative assistant</p> <p>21 – Ag planners to assist with technical assistance</p> <p>1 – FTE for Ag Land Preservation Program Assistance</p>	<p>\$520,000 per year</p> <p>\$300,000 per year</p> <p>\$2,730,000 per year</p> <p>\$130,000 per year</p> <p>Assume \$250K per farm: \$4M (B)</p> <p>Assume \$250K per farm: \$2M(C)</p> <p>Assume \$250K per farm: \$2M (F)</p> <p>Assume \$250K per farm: \$2M (H)</p>	<p>2022: Blair County: Preserved 2 farms in 2021 utilizing state funds. Will use federal funds to preserve a farm in 2022, and state funds to preserve an additional farm. Approximately 9,000 acres have been preserved to date. Average around 12 applications per year, more funding would support additional farm preservation.</p> <p>Cambria County: preserved two farms this past year totaling approximately 122 acres. Preserving another farm in 2023, going through the survey process now. More applications than the program can fund.</p> <p>Fulton County: The Conservation District turned the program back over to the county to administer, Chief Clerk is considering administering the program. Currently they're only 2 farms in the county that are preserved. Funding is limited for the program, no local match.</p> <p>Huntingdon County: Looking to preserve one farm in the 2023 program year.</p>

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1.7*	Establish funding/staff support to assist the Agricultural community 496 farms in Blair County (2017 Census) 557 farms in Cambria County (2017 Census) 545 farms in Fulton County (2017 Census) 714 farms in Huntingdon County (2017 Census)	Approximately 75 farms have their plans in Blair County, goal is to complete 200 by 2025. (B) Approximately 5 farms have their plans reported in Cambria County, goal is to complete/report 100 by 2025. (C) Approximately 100 farms have their plans in Fulton County, goal is to complete 200 by 2025. Preparing to enter phase 2 of inspections. (F) Approximately 100 farms have their plans in Huntingdon County, goal is to complete 200 by 2025. (H)	Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Private Ag Consultants	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022-2025	Limited compliance activities by DEP. Lack of Technical assistance to support the farming community. Private sector Ag plans are not required to be shared with District staff. All counties will work with ACT 38, Preserved farms and organic farms to report AG E&S and NRCS Conservation Plans. These operations are required to have them, but no requirement to report the plans. It is recommended state agencies make changes to ACT 38 and Persevered Farm programs to require PracticeKeeper reporting.	38 Inspections performed per year (B) 75 Inspections performed per year, NRCS 20 plans per year (F) 12 Inspections performed per year (H) - Could do 50 inspections per year with additional funding Field verification, troubleshooting, site visits and plan review		21– additional Ag Planners to provide TA and ag planning 11 – FTE Design, Engineers, permits 11 – FTE Construction Inspector 4 – FTE Clean Water Coordinator for CD 0.5 FTE – Bay Technician to expand this position to a full-time position 4 – administrative assistant	\$2,730,000 per year \$1,540,000 per year \$1,155,000 per year \$520,000 per year \$65,000 per year \$300,000 per year	2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant totaling \$1.6 million to support additional ag engineering needs along with increased farm visits. In 2022 the Lancaster Farmland Trust will complete 28 farm visits across the region. Agriculture Conservation Assistance Program (ACAP) was announced in the Pennsylvania State Budget in July of 2022. This program will provide all counties in Pennsylvania with funding totaling \$154 million over the next 3-years to support Ag project implementation and technical assistance needs. Blair County: The INSR grant is supporting farm lane stabilization, applied to GG for technical support to 4-farms to implement manure storages. Cambria County: has NACD technical assistance grant funded by NRCS. Received the grant in 2021, reapplied for additional funds in 2022. Will support hiring of a position to provide technical assistance. Explore opportunities to contract out for technical assistance support. Huntingdon County: Chesapeake Conservancy applied for an RCPP application to add additional technical assistance to Huntingdon County. Additionally, the Cons. submitted multiple GG applications to increase technical assistance in the Rapid Delisting Watersheds in Huntingdon County.

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1.8A*	Continue to address and support existing Acid Mine Drainage (AMD) treatment systems and streams impaired by AMD	Continue to provide funding to both active and passive treatment systems that are reducing the impacts of AMD impairments. If funding recedes water quality could degrade. (B) (C) (H)	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS, Stream Restoration INC. Office of Surface Mining,	<p>Shaw Run – Blair County</p> <p>Glen White Run – Blair County</p> <p>Chest Creek – Cambria County</p> <p>Miller Run – Huntingdon, in stream dosing</p> <p>Shoups Run – Huntingdon (delisted area) still needs maintenance</p> <p>Hartman Run – Huntingdon</p>		<p>Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems.</p> <p>Lack of technical assistance to support restoration efforts</p>	<p>Coordination of restoration</p> <p>Monitoring</p>		<p>3 – FTE Clean Water Coordinator for CD</p> <p>Maintenance on AMD site locations (B)</p> <p>Monitoring on treated AMD Streams (B)</p> <p>Maintenance on AMD site locations (C)</p> <p>Monitoring on treated AMD Streams (C)</p> <p>Maintenance on AMD site locations (H)</p> <p>Monitoring on treated AMD Streams (H)</p>	<p>\$390,000 per year</p> <p>\$75,000 per year</p> <p>\$25,000 per year</p> <p>\$75,000 per year</p> <p>\$25,000 per year</p> <p>\$75,000 per year</p> <p>\$25,000 per year</p>	<p>2022: Pennsylvania is expected to receive \$297.9 million in 2022 to assist in AMD restoration of which a significant portion will go to maintaining existing systems with proper operation and maintenance. We will continue to work with PADEP and local partners to ensure these existing remediation sites stay operational.</p> <p>Blair County: North Slope AMD Treatment System (20 years old), needs repaired. Is a top priority to receive funding.</p> <p>Cambria County: Clearfield Creek is a top priority for maintaining existing systems.</p> <p>Huntingdon County: just completed repair on Minersville facility. Used emergency funding to support project. Need to complete same repairs on Miller Run #1 and Miller Run #2. Green Garden Road will need repaired in the future. Old Never Sweat system needs analyzed for repair needs.</p>

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1.8B*	Identify new funding to support the implementation of Acid Mine Drainage treatment systems	<p>Opportunities still exist to address AMD runoff into local streams. New passive and active treatment systems are needed to support water quality improvements. Work with DEP and other identified partners to find funding to support the implementation of new treatment systems</p> <p>Geographic Location (continued): Sugar Run– Needs AMD system, Kittanning Run – Water Authority Property, Bakerton is currently designed for use but is not being used by active mine site, Sankerton needs additional help. (B)</p>	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS	<p>Dudley discharge, Hartman Run (H)</p> <p>Pantee Run – AMD impaired (needs watershed plan), Clearfield Creek, West Branch of Susq. could use additional work (C)</p>	2022-2025	<p>Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems.</p> <p>Lack of technical assistance to support restoration efforts</p> <p>Landowner in Hartman Run would need to be paid for land in order to install systems</p>			<p>3 – FTE Clean Water Coordinator for CD</p> <p>Coordination of restoration</p>	<p>\$390,000 per year</p> <p>\$5,000,000 Total for restoration to Kittanning Run and Sugar Run (B)</p> <p>\$10,000,000 for Clearfield Creek, West Branch of Susquehanna and Pantee Run (C)</p> <p>\$10,000,000 for Dudley Discharge (H)</p> <p>\$300,000 for Hartman Run (H)</p>	<p>2022: Blair County: Kittanning Run Watershed needs AMD treatment (reforestation analysis is needed from BAMR). One main discharge still needs treated, need to determine appropriate project for the location.</p> <p>Cambria County: Working on one system with PADEP to capture discharge and pipe water into an existing system. Half of the piping system is paid from an SRBC Consumptive Use Grant. CCCD is working with the Western Pa Coalition for AMD to apply to OSM for remaining funding (West Branch Susquehanna). Clearfield Creek Watershed Association has potential project opportunities to implement projects. Challenge is getting landowner on board with the project.</p> <p>Huntingdon County: Dudley discharge still needs a system, Trough Creek PADEP is working on addressing the discharge.</p>
1.9A	Partner with Penn State Altoona, Mount Aloysius (B), Juniata College (H) and Saint Francis University © to support implementation of the CAP.	<p>Juniata College Tree Advisory Committee includes multidisciplinary team of students and faculty, could help to administer other BMPS</p> <p>Saint Francis University</p> <p>Penn State Altoona</p> <p>Mount Aloysius</p> <p>Develop a program with university students to support PracticeKeeper reporting for summer of 2022.</p>	Juniata College, Saint Francis University, Penn State Altoona, Mount Aloysius	<p>319 Priority Watershed</p> <p>Riparian properties</p> <p>Preserved farms</p> <p>Priority Corridor Watersheds</p>	2022-2025	<p>Continued undergraduate/graduate engagement as students graduate through program, implementation funding</p> <p>Lack of technical assistance professionals to mentor students and develop workforce development.</p> <p>Lack of competitive paying job opportunities that ensure long term sustainable for recently graduated students</p>	Outreach boots on the ground		<p>18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)</p>	\$180,000 per year	<p>2022: Blair County: CAP Intern is from University Pitt Johnstown. Has worked hard to enter approximately 100 plans and practices in PracticeKeeper.</p> <p>Cambria County: is hiring a fall intern to enter BMPs into PracticeKeeper, utilizing same intern Blair County hired in the Summer.</p> <p>Huntingdon County: working with Juniata College on riparian buffer maintenance and live staking . Planted close to 1,000 live stakes across 1,900 feet of stream. Has intern from Juniata College, who has been entering plans and practices into PK. The Foundation for PA Watersheds applied for funding to support Phase 2 of BMP verification. Phase 2 includes partnering with Susquehanna University to provide interns to Huntingdon County in the Summer of 2023 and 2024.</p>

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1.9B	Quantify Land/BMPs Managed by Penn State Altoona, Juniata College and Saint Francis University	Work with Penn State Altoona, Mount Aloysius, Juniata College and Saint Francis University to ensure that water quality improvements that they manage are captured in CAST/FieldDoc	Penn State Altoona (B), Mount Aloysius, Juniata College (H) and Saint Francis University (C)	Penn State Altoona owned Lands in Blair County Mount Aloysius owned lands in Blair County Juniata College owned Lands in Huntingdon County Saint Francis University owned Lands in Cambria County	2022	Getting maximum credits for experimental BMPs	Institutional knowledge		3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District 18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)	\$390,000 per year \$390,000 per year \$180,000 per year	2022: No progress to date.
1.10A	Create a regional water quality communication plan, leveraging existing documents and covering topics including Southern Allegheny Comprehensive Plan, Hazard Mitigation Plans, Cold Water Conservation Plans, 319 Watershed Plans, Greenways and Open Space Plans	Develop regional messages and audience; execute plan and distribute messaging through staff and partners	Multi-partner, Southern Allegheny Planning Commission as lead entity building upon environmental aspects?	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – plan development 2023 – plan implementation	Simplifying the resources that are available, focusing on farmers and other landowners			Website development and continued maintenance 4 – FTE Marketing and Outreach Coordinator 4 – FTE Clean Water Coordinator for Planning Commission	\$60,000 per year \$520,000 per year \$520,000 per year	2022: In May HRG discussed with the counties a WQ Communication Plan. All counties elected a plan was too complicated and messaging could be shortened to a few news articles/social media posts a year. In the fall HRG will help to develop a messaging schedule with support on drafting outreach materials. Additionally, the SAPDC website still remains operational with information, and the group is exploring options of setting up a GIS website to also relay information. Huntingdon County: completed a river conservation tour with the visitor bureau to educate local citizens on water quality.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 + 2022)
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1.10B	Agricultural Communication Strategy	<p>Develop a plan to complete one on one farm visits outside the regulatory framework.</p> <p>Develop a communication plan to engage integrators.</p> <p>Partner with pesticide meetings and other AG meetings to provide information.</p> <p>Utilize Farm Bureau Newsletter for announcements</p>	CD, County Farm Bureau, Integrators, Ag Land Preservation, PSU Extension, NRCS, Ombudsman	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022-2025	<p>One on one farm outreach is the best way to communicate with farmers in addition to reporting practices.</p> <p>Funding to support the technical assistance required to complete one on one farm outreach</p> <p>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.</p> <p>Districts can be viewed as regulatory agencies can be tough for some farmers to be willing to work with the District</p>			<p>21 – additional Ag Planners to provide TA and ag planning</p> <p>4 – FTE Marketing and Outreach Coordinator</p> <p>4 – FTE Clean Water Coordinator for CD</p>	<p>\$2,730,000 per year</p> <p>\$520,000 per year</p> <p>\$520,000 per year</p> <p>See 1.10A for website costs.</p> <p>Costs for meeting attendance and administration is covered through other funding requests.</p>	<p>2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In 2022 28 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 visits for all counties. Scaling up of farm visits would allow for additional outreach to occur.</p> <p>Huntingdon County: The Chesapeake Conservancy is conducting outreach in the Rapid Delisting Watershed in Huntingdon County. Additionally, the Conservancy applied for an RCPP application to increase technical assistance and outreach across the county.</p> <p>Blair County: is exploring different communications methods (radio communication, social media) to outreach about agricultural initiatives.</p>

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1.11*	Countywide WQ Credit Offset Pilot	Demonstrate success of a pilot project area where MS4-regulated areas and non-regulated areas can benefit from achieving sediment and nutrient goals	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission	Blair County MS4 Municipalities	2022-2023	Municipal capacity to implement plans (technical, financial) DEP acceptance of approach, permit compliance coordination among sectors, farmers in compliance with state and federal regulations		\$644,428 (grant)	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year	2022: No progress to date.

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1.12*	Keep High Quality Water High Quality – Protect Headwater Watersheds	Work to preserve and protect high quality and exceptional value streams with preservation and conservation initiatives. The goal is to prevent further degradation to healthy stream segments.	Conservation District, Planning Commission, Watershed organizations, Trout Unlimited.	Blair, Cambria, Fulton and Huntingdon County HQ and EV watersheds.	2022	Funding is not typically available to preserve high quality watersheds. Most funding is dedicated to impaired watersheds. Ensure funding is available to support implementation in HQ and EV watersheds. Ensure dedicated and predictable funding for Tier 3&4 counties is available.			4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District	\$520,000 per year \$520,000 per year	<p>2022: The Foundation for Pennsylvania Watersheds included language about keeping high quality waters high quality in the Growing Greener technical assistance grant. Continue to explore opportunities to include this in funding applications to support the context of the statement.</p> <p>Blair County: included language within Growing Greener application. Continues to communicate importance of message in daily outreach efforts.</p> <p>Fulton County: targeted farm visits in HQ Watershed. Lancaster Farmland Trust visiting 6 farms and identified two farms that would like to have projects completed.</p> <p>Huntingdon County - included EV within the standing Stone Creek Coldwater Conservation Plan. Helped WPC apply for a stream restoration project in an HQ watershed.</p>

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Priority Initiative 2: Reporting and Tracking – Blair, Cambria, Fulton and Huntingdon											
2.1*	Existing BMP cataloguing (quantity and location) for select BMPs, expanding on general recommendations provided in QAPP BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, wet ponds and wetlands, fencing, cover crop and tillage management	Expand use of existing buffer layer with urban hydrology layer R&D into distinguishing ag, pasture, and turf covers from grassed buffers Manual digitizing where leaf-off <1 ft resolution imagery is available Back check with staff field views where required Add data to Practice Keeper (PK) or another batch upload option	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – Practice Keeper batch upload processing and field views	EPA acceptance of the approach, further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of counties, utilize the approach to catalogue existing BMPs and do on the ground verification where required for reporting purposes, this is an accelerated BMP catch up approach while we continue to provide support to farmers on planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operations Farmers’ willingness to share data with PK due to right to know	Precision Conservation Tools General methodology outline BMP field backcheck	N/A	Further GIS and data processing/method refinement 21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,)[18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	\$46,000 (2022 only) per county à\$184,000 \$2,730,000 per year \$180,000 per year	2022: In December of 2021, all counties were awarded \$30,000 to support BMP verification. The counties elected to conduct Phase 1 of a multiphase BMP verification remote sensing effort. All counties elected to put a portion of money to remotely sense the following priority BMPs: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and Streambank Exclusion Fencing in all counties and Wet Ponds/ Detention Basins in Blair County. . Remote sensing data analysis performed by the Chesapeake Conservancy is being finalized in August of 2022 and results are provided in an online ARC Gis Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts. In April of 2022, the Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant to support Phase 2 of the BMP verification analysis in the MEB in Huntingdon County. Initial results from Phase 1 look excellent in providing opportunities to take credit for practices on the ground that are not currently reported.

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2.2*	Identify future 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 Batch upload to FieldDoc to calculate credit opportunity	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS, MS4 Municipalities in Blair County County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – batch upload processing and field views 2024 – 2025 – implementation focus	Different data set scales/precision Willingness of landowners to implement BMPs	Precision Conservation Tools Batch upload processing BMP field backcheck	N/A	Further GIS and data processing/method refinement 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	\$46,000 (2022 only) per county à\$184,000 \$180,000 per year	2022: No progress to date.
2.3*	Develop a local system to capture data collection on urban structural and non-structural practices	Add urban stormwater BMPs to FieldDoc or reported to DEP so that as land use data sets are updated, there are accompanying BMPs Work with municipalities that are implementing stormwater management ordinances for less than an acre stormwater management to report practices	Municipal engineers, Chesapeake Conservancy, Municipalities, Planning Commission,	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022	Currently municipalities are not collecting BMP data because it is not required in non-MS4 communities. Must incentivize communities to report, no existing system in place Lack of technical assistance to report and verify practices to DEP	Reporting platform		Training 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5) 4 – municipal planner	N/A \$180,000 per year \$520,000 per year	2022: By early fall the Chesapeake Conservancy will release remotely sensed Wet Ponds and Detention Basins for Blair County. Field Verification will occur and practices will either be entered into PracticeKeeper or FieldDoc. The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant in April of 2022 to support Phase 2 of BMP verification remote sensing analysis. Phase 2 will include analyzing wet ponds and detention basins in urban areas across Huntingdon County. PA DEP has updated FieldDoc to allow for additional reporting of urban practices.

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2.4*	<p>Implement a documentation program for commercial and homeowner nutrient applications in developed lands</p> <p>Support current legislation for fertilizer bill.</p>	<p>Support fertilizer legislation – where legislation requires reporting</p> <p>Legislation will support the implementation of Urban Nutrient Management – 2,000 acres (B)</p> <p>Urban Nutrient Management – 1,400 acres (C)</p> <p>Urban Nutrient Management – 1,000 acres (F)</p> <p>Urban Nutrient Management – 2,000 acres (H)</p>	PSU Extension	<p>Blair Countywide</p> <p>Cambria</p> <p>Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022	<p>Education of responsible parties, receiving timely information, training on reporting system.</p> <p>Partners will need direction from State on what’s expected and any reporting system that’s developed.</p> <p>Counties aren’t equipped with technology or field experience to manage this initiative.</p> <p>Fertilizer Legislation has failed to pass the legislature in the last two years.</p>	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	4 – FTE Clean Water Coordinator for Planning Commission	\$520,000 per year Urban Nutrient Management \$10 per acre à \$64,000	<p>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.</p>

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2.5*	Improve Agricultural BMP reporting utilizing PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure Transport Reporting and Remote Sensing	<p>Increase reporting of agriculture plans into PracticeKeeper, provide incentives/requirements to private sector Ag planners to report.</p> <p>Work with Capital RC&D to improve current transect survey routes to be more inclusive of cover crop locations, improve data analysis so that all acres are appropriately credited</p> <p>Work with PSU to produce better response rates to the PSU survey for each county</p> <p>Work with PDA/DEP/SCC to improve manure transport reporting</p>	DEP, Conservation District, NRCS, PDA, NRCS, County Farm Bureau, Capital RC&D, Chesapeake Conservancy, PSU Survey, Manure Brokers,	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022-2025	<p>Private sector ag planners do not have access to PracticeKeeper. Ag planners do not have time to report into PK.</p> <p>Current Capital RC&D routes are not all inclusive and could be improved.</p> <p>Current response rates are low and miss a large demographic of County farmers.</p> <p>Manure brokers are not required to report data annually. Data is not inclusive. Consider a regulatory change.</p> <p>Farmers' willingness to share data with PK due to right to know</p>			18 – Student Internships to Support CAP Implementation (Blair - 5, Cambria - 3, Huntingdon - 5, Fulton - 5)	\$180,000 per year	<p>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 for Huntingdon County. Interns in Blair and Cambria County have been actively entering information into PracticeKeeper. For Fulton County a newly higher administrative assistance will be entering information into PracticeKeeper. HRG will provide one on one assistance with data entry going into 2023.</p> <p>Blair County: intern has been entering older plans into PracticeKeeper along with older practices. Over 100 plans entered to date.</p> <p>Cambria County: Intern has continued entering old plans and practices into PK. Concerns about cover crop transect survey points need to be addressed to accurately report cover crop acres.</p> <p>Fulton County: Administrative Assistant started starting to enter old files in August of 2022.</p> <p>Huntingdon County: intern is entering plans into PracticeKeeper, and writing manure management/Ag E&S Plans and entering them into PK.</p>
2.6*	Standardized Reporting for Dairy Precision Feeding	<p>Counties would like to utilize the dairy precision feeding BMP. However, current reporting guidelines do not allow for clear reporting standards on feed reduction amounts, how to report, and who is qualified to report. Changes to reporting would result in the following Dairy Precision Feeding BMP Implementation:</p> <p>5,000 dairy cow animal units (B)</p> <p>1,000 dairy cow animal units (C)</p> <p>5,000 dairy cow animal units (F)</p> <p>6,500 dairy cow animal units (H)</p>	Chesapeake Bay Program, Penn State Extension, Dairy co-ops	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	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.	Research	N/A	Reporting protocol	N/A	2022: No progress to date, reporting standards still remain an issue to utilize the BMP.

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2.7*	Water, Sewer and Wastewater Treatment Plants reporting and upgrades	Work with Water, Sewer and Waste Treatment facilities to accurately document plant upgrades. Upcoming plant upgrades: Brown and Union Township, Saltillo (H) Altoona Digester (B) Tipton/Plane and Nine/Mill Run, Petersburg Borough (H) McConnellsburg composts biosolids (F)	DEP Brown and Union Township, Saltillo (H), Altoona Digester (B), Tipton/Plane and Nine/Mill Run, Petersburg Borough McConnellsburg Borough	CSO and Waste Treatment Facilities	Ongoing	Need DEP to work with waste facilities to accurately document plant upgrades. Need reductions to be accurately captured in CAST. Work with DEP to determine how composting helps to reduce nitrogen and phosphorus. Accurately document the results and report in CAST.			4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District	\$520,000 per year \$520,000 per year	2022: In the fall collect upgraded facilities data and coordinate with PADEP to ensure reductions are being credited in CAST. Utilize the monthly meeting to coordinate efforts.
Priority Initiative 3B: Achieve New Pollutant Reductions Blair County											
3.1B*	Implement Plum Creek and Sugar Run Watershed Assessment, Restoration and Preservation Plan	Implement federal, state and local programs that support the establishment of riparian buffers in the headwaters. Look to support the implementation of streambank fencing, no-till planting, and cover crops. Implement appropriate AMD restoration practices to address AMD issues.	BCCD, JK Chapter of TU, PAFBC, AG land preservation program	Plum Creek and Sugar Run Watershed	Ongoing	Technical assistance to support implementation and landowner outreach. Lack of funding to support implementation of projects.		JK Chapter of TU has funding available for AG Practices and Stream Restoration – needs project leads	1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$500,000 to support continued implementation of restoration initiatives	2022: No progress to date.
3.2B*	Trout Unlimited Non-point source Technical Assistance Program	8 proposals were submitted for streambank and in-stream practices in Blair County Waterways Currently in the process of being implemented	JK Chapter TU, BCCD	Gillans Run Nature Works Park	2021 – Gillans Run 2022 Implementation of additional projects	Permitting process is underway, hoping to have permits by spring of 2022. Work with South Central Office on Permitting Meeting. Current funding minimum of \$25,000 for prevailing wage trigger drastically increases project budget.	Trout Unlimited	Partial	TU Technical Assistance 1 – FTE Clean Water Coordinator for Conservation District	\$50,000 in design \$130,000 per year	2022: BCCD is extensively using technical assistance program. BCCD completed 4 stream restoration projects this year utilizing the TU Program. Continues to utilize TU for technical assistance and plans to use them going forward. Projects are in Gillans Run, Spencer Run, Nature Works Park (Beaverdam Branch).

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3.3Ba	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Expand partners to accelerate the installation of eight stream bank restoration and riparian buffer projects in the MS4 regulated regions 8,885 ft stream restoration 4-acre riparian buffer planting	Blair County Conservation District, PA Intergovernmental Stormwater Committee (ISC), ISC Engineers, John Kennedy Local Trout Unlimited, Tri-Run Watershed Association, Little Juniata Watershed association, PA DCNR, Maple Hollow Townhouses Homeowners association, Master Gardeners	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority MS4 Regulated Area	2021-2023	ISC has no capacity to scale up. Identifying additional partners to support with implementation. Expand geographic scale of implementation outside of defined urbanized area. Outreach to non-MS4 communities Limited budget for ISC, limited budget prevents outreach to non-MS4 communities	Engineers (ISC) Staff Time to support efforts (CD) Volunteer Buffer Plantings, and other work (St Francis University, LJRA, TU, TRWA, DCNR)	\$41,000 \$78,000 \$350,500, free trees	2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide TA and ag planning 3 – FTE inspector construction Services	\$280,000 per year \$420,000 \$280,000 per year \$780,000 per year \$315,000 per year	2022: Soliciting farmers for farm lane stabilization through farm visits, fliers, presentations, and Farm Bureau newsletter articles. Hopefully starting on construction in the spring of 2023. INSR supported action 3.2B stream restoration construction. The District is holding 2 CREP workshops for INSR outreach this fall and early in 2023.

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3.3Bb	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR) Strengthen the partnership with Blair County Municipalities by scaling up Dirt and Gravel/Low Volume Road Program	Develop cost share program to fund Green Infrastructure and riparian buffer practices Target stormwater practice implementation upstream of D&G Roads Offer cost shared program to reduce sediment pollution from unpaved roads and culvert outlets in the AG sector – 10 projects total Implement Stormwater Practices in Tyrone Township and Borough	Blair County Conservation District, Blair County Municipalities, NRCS, Tyrone Township and Tyrone Borough, Blair County Farm Bureau	Non-MS4 communities of Beaverdam Watershed	2021 - 2023	Will work with NRCS staff to identify farms needing road/culvert repair; however, NRCS staff is limited and working beyond their scope is difficult	Volunteer Time	\$183,000	2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE inspector construction Services	\$280,000 per year \$420,000 \$280,000 per year \$780,000 per year \$315,000 per year	2022: see 3.2Ba
3.3Bc	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Accelerate the adoption of regenerative agriculture practices on farms in Blair County and establish a Regional Soil Health Hub in partnership with Pa Soil Health Coalition Conduct 5 farmers workshops Utilize multi-county grazing group to further promote the use of prescribed grazing	Blair County Conservation District, Blair County Municipalities, NRCS, PA Soil Health Coalition, Project Grass, PAGLC, PA No-Till Alliance,	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority	2021 - 2023	NRCS Staff is limited The principal gap that limits our capacity to scale up is the lack of funding and farmer understanding of the need to adopt regenerative ag related practices	Plan Writers		2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE inspector construction Services	\$280,000 per year \$420,000 \$280,000 per year \$780,000 per year \$315,000 per year	2022: see 3.2Ba

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3.4B	Exploring opportunities to develop a plan for Spencer Run	Need to conduct a watershed assessment for Spencer Run. Funding already established Already conducted a flood assessment	JK Chapter of TU, Army Core of Engineers	Spencer Run Watershed	2022 complete watershed assessment	Lack of staffing with quick grant turnaround. Plan development can take time	Technical assistance		6 – additional Ag Planners to provide technical assistance and ag planning	\$780,000 per year \$150,000 to develop a plan for Spencer Run	2022: Streambank stabilization implemented in Spencer Run. Considering a floodplain reconnection project on Spencer Run.
3.5B	Altoona Water Authority Regional Digester	Altoona Water Authority is currently in the process of building a new regional digester to handle biosolids and manure from regional facilities within 50 miles. The facility will process nutrients and produce a low concentration Class A waste that will be land applied.	Altoona Water Authority, Regional waste producers who transport to digester,	Altoona, PA Glen White Run Watershed – Biosolid Application	2022	There is potential the digester will be processing manure generated outside of the Chesapeake Bay Watershed. These nutrients will be contributed to Blair County loads.	Day to day operation	\$36 million	1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year	2022: No progress to date. In the fall follow-up with AWA to document progress on the regional digester.

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Priority Initiative 3C: Achieve New Pollutant Reductions Cambria County											
3.1Ca	Implement the 2020 Cambria County Conservation District Strategic Plan	<p>Increase the number of stream restoration BMPS installed, submit grants once a year to implement AMD and AG impaired waters (2 miles of AMD stream by 2025, Glendale Lake streambank stabilization)</p> <p>Conduct 10 comprehensive farm evaluations for BMPs (assume 60 acres per farm – 600 acres of new potential planning), Funding by 2025</p> <p>Assist 5 farmers per year with soil conservation and nutrient management plans (portion of 10,000 acres of new soil conservation and water quality plan goal)</p>	<p>CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, EPCAMR, WPC, AmeriCorps, Bens Creek Canoe Club, PAFBC, PSU Extension, Clearfield Creek Watershed Association, Chest Creek Watershed Association</p>	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives, landowner issues			<p>1 – Municipal Engineers</p> <p>2 – FTE Design, Engineer, Permits</p> <p>1 – stream biologists</p> <p>3 – additional Ag Planners to provide TA and ag planning</p> <p>2 – FTE Construction Inspector</p> <p>1 – FTE Clean Water Coordinator for Planning Commission</p> <p>1 – FTE Clean Water Coordinator for CD</p>	<p>\$140,000 per year</p> <p>\$280,000 per year</p> <p>\$140,000 per year</p> <p>\$390,000 per year</p> <p>\$280,000 per year</p> <p>\$130,000 per year</p> <p>\$130,000 per year</p>	<p>2022: Due to a lack of qualified applicants and existing grant funds the CCCD was not able to hire additional staff to support implementation of the Conservation District Strategic Plan</p>

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3.1Cb	Implement the 2020 Cambria County Conservation District Strategic Plan	<p>Develop MOUs with municipalities on E&S, meet with 12 municipalities per year</p> <p>Meet with 15 municipalities in 3 years to promote stormwater management planning</p> <p>Meet with county agencies to promote stormwater planning and ACT 167 requirements</p> <p>Have at least 1 demonstration project by 2022 to showcase stormwater BMPs</p> <p>Achieve addition of 2 staff to district employees by 2025</p> <p>Increase 1 FTE for program support, environmental education, and accounting</p>	<p>CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, WPCAMR, WPC, AmeriCorps, Bens Creek Canoe Club, PAFBC, PSU Extension</p>	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives			See 3.1Ca	See 3.1Ca	2022: See 3.1Ca
3.2C*	Implement Brubaker Run Cold Water Conservation Plan	<p>Address remaining AMD and AML issues through restoration efforts</p> <p>Culvert replacement projects</p> <p>Opportunities for stream restoration near Hastings</p> <p>Work with farmers to educate them on erosion and sediment control</p> <p>Continue to fund Dirt and Gravel Road projects</p>	<p>CCPC, Municipalities, CCCD, PAFBC</p> <p>Work with municipal officials, business owners, residents and PennDOT for stormwater BMPs</p>	Brubaker Run Watershed	Ongoing	<p>Lack of technical assistance to support with implementation of restoration initiatives</p> <p>Lack of funding to support restoration efforts</p> <p>Need to secure AMD/AML funding</p>			<p>1 – FTE Clean Water Coordinator for Planning Commission</p> <p>\$130,000 per year</p> <p>1 – FTE Clean Water Coordinator for Conservation District</p> <p>\$500,000 to support implementation of Plan</p> <p>Other funding is identified throughout initiatives</p>	<p>\$130,000 per year</p> <p>\$130,000 per year</p> <p>\$500,000 to support implementation of Plan</p> <p>Other funding is identified throughout initiatives</p>	2022: implemented a streambank stabilization project at 3 separate locations in Brubaker Run. 655 linear feet were stabilized.

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

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Priority Initiative 3F: Achieve New Pollutant Reductions Fulton County											
3.1F	Develop a watershed implementation plan for Big Cove Creek	Conservation District received a Growing Greener grant to develop a Plan for Big Cove Creek. Ensure the goals of this WIP align with CAP goals. Use the plans to leverage funding. Mainly AG Implementation, some urban implementation, and forest management.	FCCD, Center for Watershed Protection	Big Cove Creek Upper portion of Big Cove Creek is primary focus for impaired restoration efforts	2022 Plan Development 2023 Secure funding 2024 begin implementation	District is focusing many of the AG activities and stream restoration in this watershed. Ensure the Plan allows the CD to utilize 319 funding to support implementation. Consider utilizing rapid delisting approach to identify most cost-effective landowners to pursue.		Plan Writing Dollars	Implementation Support	\$1,000,000 to support implementation of the plan	2022: FCCD is assisted with a stream restoration project on Buchanan State Forest along Big Cove Creek. 2019-2021 Growing Greener Grant (extension granted through December 2022) - Approximately \$560,000 left to expend in the grant (\$555,000 construction/\$5,000 administrative). - Big Cove Creek Stream Corridor Restoration, Big Cove Creek (ag-impaired section). Final designs have been completed; permit was approved in July, Construction to begin in the fall of 2023. 2020-2022 Growing Greener Grant - \$112,000 awarded (contractual). - Assessment of Upper Big Cove Creek. Working with the Center for Watershed Protection and Ecosystem Planning and Restoration to implement the assessment. Plan needs to be developed by December of 2024.
3.2F	Exploring opportunities to develop a plan for Cove Run Watershed	Look to secure funding to write a develop either a 319 WIP, Alternative Restoration Plan or Cold-Water Conservation Plan to support implementation goals of the Phase 3 WIP.	FCCD, NRCS,	Cove Run Watershed	2022 – secure funding for plan development 2023 – begin plan writing	Securing funding to support the development of an additional watershed plan. Might be able to move forward with some implementation projects without plan development.			Rapid Delisting approach	\$150,000 for plan development	2022: no progress to date. Explore funding opportunities, target farm visits in the future.

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Priority Initiative 3H: Achieve New Pollutant Reductions Huntingdon County											
3.1H*	Implement the Miller Run Cold Water Heritage Conservation Plan	<p>Continue semiannual water quality monitoring</p> <p>Continue to Address remaining AMD and AML issues through restoration efforts, ongoing maintenance of existing systems</p> <p>Ensure farmland managed by Game Commission has BMPs and are properly managed</p> <p>Reporting and Verification of existing projects implemented 2000-2010</p>	Shoups Run Watershed Association, HCCD, PA Game Commission	Miller Run Watershed	Ongoing	<p>Lack of technical assistance to support with implementation of restoration initiatives</p> <p>Lack of funding to support restoration efforts</p> <p>If existing AMD system fail water quality will return to hazardous levels</p> <p>Miller Run has been delisted, but macros still need improvement.</p> <p>Work with Juniata College to perform additional monitoring efforts.</p>			<p>1 – FTE Clean Water Coordinator for Planning Commission</p> <p>1 – FTE Clean Water Coordinator for Conservation District</p>	<p>\$130,000 per year</p> <p>\$130,000 per year</p> <p>\$50,000 for funding and technical assistance to continue monitoring and maintenance</p>	<p>2022: Need to maintain existing AMD systems, major flooding in 2021 has increased the need for more restoration in the future. Semiannual water quality monitoring showed decreased treatment/failure which led to funding search.</p> <p>Applied for WPCAMR and received \$29,800 in funding for repairs/major cleaning. HCCD applied for two more grants to repair these systems in the fall of 2022.</p>

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3.2H	Implement Standing Stone Creek Coldwater Conservation Plan	Plan is currently under development and set to be finished in September of 2021 This plan is an opportunity to help implement CAP Initiatives	HCCD	Standing Stone Creek Watershed	9/2021 completion Ongoing implementation	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$500,000 to support implementation of the plan	2022: Community Foundation for the Alleghenies; \$18,000: Standing Stone Wetland Restoration Project, Miller Twp., Huntingdon County. Proposed to be completed in October 2022. Proposed activities include construction of a vernal pool and implementation of 8 acres of buffer restoration. Planned to implement buffer in October 2022. Partners include BluAcres, LLC, Huntingdon Co. Conservation District, DCNR, Cold Water Heritage Program, and the landowner. Status: A stream assessment was undertaken by HCCD; design has been completed by BluAcres; Pre-application meetings with DEP have taken place; E & S Plan has been compiled. HCCD and WPC put in application to Growing Greener for stream restoration on Harod Run for 3,800 linear feet. Applying for buffer funding for 13.5 acres on Harod Run. Couple of projects gaining landowner interest, need to identify funding.
3.3H	Juniata University Urban Tree Initiative	Juniata College has established a “Tree Care Plan” along with a tree advisory committee to further implementation of trees on campus. Partner with Huntingdon Borough Tree Commission	Juniata College, Tree Advisory Committee, Huntingdon Borough Tree Commission and service	Juniata College	Ongoing	Partner with Huntingdon Borough tree commission and borough to implement projects. If the tree commission has more funding, they could implement more projects.	Volunteer services		1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for CD	\$130,000 per year \$130,000 per year \$50,000 to support Huntingdon Borough Tree Commission	2022: no progress to date.

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3.4H*	Explore options for developing a watershed restoration plan at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run	A desire to implement plans at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run. DEP developing a plan on Great Trough Creek to address the Dudley Run Discharge.	SRBC, Chesapeake Conservancy, Conservation District	Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run, Sadler Creek	2024-2025	Funds are available to address Great Trough Creek; however, funds are in general services and there is a legal battle transferring these funds to Bureau of Mining. This must be accomplished before a plan can be developed.			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$150,000 per plan à \$600,000 total for four plans	2022: Dudley discharge could be supported through new AMD funding. Lancaster Farmland Trust completed 7 farm visits in Fort Run watershed and identified several projects on farms to be completed in the future.
3.5H*	Shoups Run 319 WIP	BAMR is currently in the design phases of an abandoned mine land reclamation project in the Great Trough Creek watershed approximately 4 miles south of Dudley. Streambank stabilization projects and dirt and gravel road BMP's using high calcium limestone have been identified as possible solutions to the acidic deposition problem Plans to construct a wastewater treatment facility for the remaining populated areas of Dudley, Coalmont Borough, and Carbon Township have been completed, funding has been secured, and construction has begun.	BAMR, Conservation District	Great Trough Creek and Dudley Discharge, Shoups Run	Ongoing	DEP must be successful with the implantation of the Dudley Discharge AMD site.			1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$500,000 for plan implementation	2022: Continuing to maintain the systems, maintenance completed on Minersville in 2022.

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Priority Initiative 4: Achieve New Pollutant Reductions (Blair, Cambria, Fulton, Huntingdon)											
4.1	Rapid Delisting Catchment Strategy through the Precision Conservation Partnership	Rapid delisting will identify priority areas and BMPs	Chesapeake Conservancy and partners	<p>Plum Creek and Tributary to Piney Creek (B)</p> <p>Duclos Run – Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no-till) (C)</p> <p>Cove Run and Big Cove Creek (F)</p> <p>Warriors Mark Run and North Branch of the Little Aughwick Creek (H)</p>	2021-2024	Reinvigorating landowner interest, design/permit/construction schedules,	<p>Program management and GIS</p> <p>Landowner outreach</p>	\$500,000	11 – additional FTE municipal/ environmental planners	<p>\$1,430,000 per year</p> <p>\$100,000 dollars to complete rapid delisting program management per year per county à total cost \$2,000,000</p> <p>Other funding identified in below initiatives</p>	<p>2022: Huntingdon County: spoke with the Conservancy to add Harod Run to the rapid delisting list. Chesapeake Conservancy continues to advance Rapid Delisting efforts on Warriors Mark Run. In April, the Conservancy applied for an RCPP application to support additional technical assistance and AG outreach on two Growing Greener grants. Western Pa Conservancy also applied for funding to support stream restoration projects in Warriors Mark Run. For all grant applications HRG provided letters of supports to applicants. Additionally, for RCPP the counties are contributing a significant portion of funding as match to the application.</p>

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4.2(B)*	Help farmers and operators to be in compliance with state and federal requirements: Conservation and Nutrient Management Plans	<p>Soil and Water Quality Conservation Plans (AG E&S) 25,000 new acres</p> <p>Nutrient Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P</p> <p>Work with ACT 38 operators (8), Preserved Farms (56), enter existing plans that were inspected but not reported to PK and certified organics to document plans already required</p>	4R Alliance, BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	<p>Lack of DEP inspections.</p> <p>Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered.</p> <p>Lack of Technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans.</p> <p>Act 38 and Preserved Farms not required to enter plans in PK, Recommendations to require programs to enter plans into PK</p> <p>State agencies must work with integrators to ensure they are requiring compliance by farmers. Some integrators require compliance, but not all, great way to communicate with farmers as well.</p>			<p>6 – additional Ag Planners to work with farmers to develop required plans</p> <p>Private Sector Ag Planners – farmers more willing to work with them opposed to district</p>	<p>\$780,000 per year</p> <p>\$15 per acre for a total cost of \$375,000</p> <p>\$15 per acre for a total cost of \$225,000</p>	<p>2022: From 2020 to 2021 progress Blair County increased nutrient management reporting by over 4,100 acres across the county. For Conservation Plan Blair County increased reporting by 2,400 acres. Increase in voluntary acres is believed to e a result of competitive ranking for the NRCS EQIP program.</p> <p>PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Blair 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.</p> <p>Blair County: Intern has entered over 100 plans into PracticeKeeper for reporting. District is continuing to write plans for farmers. Inspected 38 farms before June of 2022. 2022-2023, 38 additional farms will be inspected.</p>

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4.2(C)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 10,000 new acres</p> <p>Nutrient Management (Manure Management) 15,000 new acres of Core N and 5,500 new acres of Core P</p> <p>Work with ACT 38 operators (1 currently), Preserved Farms (20), and certified organics to document plans already required</p>	4R Alliance, CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag Land – Chesapeake Bay Portion	2022-2025	<p>See 4.2 B</p> <p>Rented ground changing hands every year, hard to keep plans up to date each year.</p> <p>PA One Stop Needs Revised to include the most modern farming practices. Some farmers are using this program to develop their own plans.</p>	50 inspections completed per year for last 3-years (150 total)		<p>3 – additional Ag Planners to work with farmers to develop required plans.</p> <p>\$390,000 per year</p> <p>\$15 per acre for a total cost of \$150,000</p> <p>\$15 per acre for a total cost of \$82,500</p>	<p>2022: PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Cambria 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.</p> <p>Cambria County: nutrient management tech is writing manure management plans and AG E&S plans. Intern will be entering plans into PK in the fall. Completed 50 Inspections last year, will complete 13 inspections in 2022-2023.</p>	
4.2(F)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 15,500 new acres</p> <p>Nutrient Management (Manure Management) 24,500 new acres of Core N and 18,500 new acres of Core P</p> <p>Work with ACT 38 operators (12), Preserved Farms (240 acres), and certified organics to document plans already required</p>	4R Alliance, FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	<p>See 4.2B</p> <p>Better information sharing with NRCS.</p> <p>Chesapeake Bay Inspections are the best way to capture and document Plan Compliance</p> <p>Prefer additional District staff over a consultant to conduct one on one farm outreach</p>	<p>75 inspections performed per year; 17 plans developed per year</p> <p>NRCS can develop and update about 20 plans per years.</p>		<p>6 – additional Ag Planners to work with farmers to develop required plans.</p> <p>\$780,000 per year</p> <p>\$15 per acre for a total cost of \$232,500</p> <p>\$15 per acre for a total cost of \$277,500</p>	<p>2022: From 2020 to 2021 progress Fulton County increased nutrient management Core P reporting by over 18,400 acres across the county. For Conservation Plan Fulton County increased reporting by 8,400 acres.</p> <p>PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Fulton 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.</p> <p>Nutrient Management Technician has developed 20 AG E&S Plans and 20 Manure Management Plans to date in 2022, goal was 17 for both by the end of 2022. Information is entered in PK.</p> <p>Fulton has completed 20 Phase 2 Inspection to date, 38 inspections will be complete in 2022-2023. Inspections are being complete in Big Cove Creek.</p>	

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4.2(H)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 30,000 new acres</p> <p>Nutrient Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P</p> <p>Work with ACT 38 operators (24), Preserved Farms (11), and certified organics to document plans already required</p>	4R Alliance, HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	Huntingdon County Ag Land	2022-2025	See 4.2B	12 Inspections completed per year for a total of about 50 completed over the last 4 years		<p>6 – additional Ag Planners to work with farmers to meet 4R standards</p> <p>Cost share support for equipment (Spreaders)</p> <p>0.5 FTE – Chesapeake Bay Technician to expand this position to a full-time position</p>	<p>\$780,000 per year</p> <p>\$250,000 cost share budget (maintenance, staff support and cost)</p> <p>\$65,000 per year</p> <p>\$15 per acre for a total cost of \$450,000</p> <p>\$15 per acre for a total cost of \$225,000</p>	<p>2022:From 2020 to 2021 progress Huntingdon County increased nutrient management Core N reporting by over 2,600 acres and Core P by 13,700 acres.</p> <p>PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Huntingdon 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.</p> <p>Completed 13 ag inspection last year and planned for an additional 13 farms next year. Intern is writing manure management and ag E&S plans. Have seen an increase in number of voluntary and involuntary nutrient management plans.</p>

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4.3	Advanced Nutrient Management (4R) Practice Education and Implementation	<p>Transition manure management plans to nutrient management plans and incentivize implementation</p> <p>Increase existing 4R practice (N Rate, N Timing and N Placement by 5,000 acres per year) (B)</p> <p>(N/P Rate, N/P Timing and N/P Placement by 1,000 acres per year) (C)</p> <p>(N Rate by 500 acres, N Timing by 6,000 acres, N Placement by 6,000 acres and P Placement/rate/ timing by 4,000 acres) (F)</p> <p>(N Rate by 4,000, P Rate by 8,000, N/P, Timing and Placement by 8,000 acres per year) (H)</p>	4R Alliance, CD, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022-2025	<p>Landowner interest, BMP verification (annual)</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p> <p>Additional funding to support soil testing. Soil testing is key to meeting the recommendations of supplemental BMPs.</p> <p>Machine dependent for most farming operations</p> <p>Cost of fertilizer is self-regulating farmers to use less fertilizer; therefore, lower rates</p>	Educational support		<p>21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>Cost share support for equipment – precision AG Spreader (C)</p> <p>Cost share support for equipment (Spreaders) (H)</p>	<p>\$2,730,000 per year</p> <p>\$250,000 cost share budget</p> <p>\$250,000 cost share budget (maintenance, staff support and cost)</p> <p>\$10 per acre of advanced nutrient management planning per type: total cost for all is \$895,000</p>	<p>2022: HRG will provide one on one trainings related to reporting of NM practices based around the Clearfield County approach. NM practice reporting will be enhanced and increased.</p>

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4.4*	Implement Practice to improve soil health and sustainability (Tillage Management and Cover Crops)	Determine feasibility of having a county cost share program to enhance adoption of the annual practice, pay incentive per acre Implement tillage management and cover crops on an annual rate of 19,000 acres High Residue, 12,000 acres Conservation Tillage, 5,200 acres Low Residue, 8,500 acres cover crops, and 12,500 acres cover crops with fall nutrients (B) 8,000 acres HR 6,500 acres CT, 3,000 acres LR, 6,300 acres of CC and 1,000 acres CC with fall nutrients (C) 10,000 acres HR, 7,700 acres CT, 5,000 acres LR 7,700 acres CC and 8,700 acres CC with fall nutrients (F) 20,000 acres HR, 10,000 acres CT, 4,000 acres LR, 8,000 acres CC and 10,000 acres CC with fall nutrients (H)	CD, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022-2023	Current verification methods do not accurately capture implemented amounts - work with Capital RC&D & DEP to improve transect survey routes and data collection methodology. Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage. Farmers are harvesting cover crops for animals, need accurate crediting for commodity cover crops. Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter years. Organic farmers are using tillage to manage weeds and vertical tillage is becoming more popular among farmers, younger generation is “trying” tillage for experience. Potato farmers use tillage as part of their operations.	Transect survey 2 – No till drills for rent 1 – No till drill for rent	EQIP – pays \$50 per acre for single species, \$60 per acre for 3 species	21 – additional Ag Planners to provide TA and ag planning (B-6, C-3, F-6, H-6,) Cost share support for equipment – no-till drill (F) Cost share support for no-till drill (H)	\$2,730,000 per year \$250,000 cost share budget (maintenance, staff support and storage) \$250,000 cost share budget \$90 per acre traditional per year \$2.745M for a 5-year total of \$13.725M (incentive payment, capital RC&D) \$50 per acre fall nutrients per year \$1.61M for 5-year total of \$8.05M \$150,000	2022: Blair and Huntingdon County are using the CAP Block Grant to administer a Cover Crop Program. The Cover Crop Program registration will be closing soon and counties will know the status of how many acres will be funded for 2022. From 2020 to 2021 CAST progress, Blair County increased cover crops by 5,500 acres. Cambria County increased High Residue Tillage Management by 4,500 acres and cover crops by 4,000 acres. Fulton County increased High Residue Tillage Management by 11,500 acres and cover crops by 4,900 acres. Huntingdon County increased High Residue Tillage Management by 4,600 acres and cover crops by 11,500 acres. Cambria County rented out the no-till drill this spring to farmers totalling 355.7 acres planted. Fulton County is developing a future Cover Crop Program, going through board approval to request CAP funding for 2023 to implement the program. Rented out the no-till drill in 2022 for 260 acres. Additional acres will be planted in the fall.

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4.5B*	Implement more pasture management BMPs	<p>Prescribed grazing – 80 acres</p> <p>Forest buffers on fenced pasture corridor – 35 acres</p> <p>Grass buffers on fenced pasture corridor – 35 acres</p> <p>Land retirement to AG Open Space – 300 acres</p>	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	<p>Landowner education, BMP funding for non-buffer work, plan updates, data gathering</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p>	Landowner education	CBF grant	<p>6 – additional Ag Planners \$780,000 per year</p> <p>\$390,000 per year</p> <p>3 – additional FTE environmental technician</p> <p>Prescribed grazing \$540 per acre: \$43,200 total</p> <p>FB Buffer with Exclusion \$10,500 per acre: \$367,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre = \$96,250 total</p> <p>Land Retirement \$500 per acre: \$150K total</p>	<p>2022: Phase 1 of BMP verification identified 90 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.</p> <p>Blair County is working with a farmer to implement BMPs with CAP Block Grant funding. The district is coordinating with NRCS on additional projects. Grazing system installation project will be completed by spring of 2023 and reported into Practicekeeper.</p>	

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

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4.5C*	Implement more pasture management BMPs	<p>Prescribed grazing – 125 acres</p> <p>Pasture Alternative Watering – 250 acres</p> <p>Forest buffers on fenced pasture corridor – 10 acres</p> <p>Grass buffers on fenced pasture corridor – 12 acres</p> <p>Land retirement to AG Open Space – 200 acres</p>	<p>CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension</p>	<p>Cambria County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals – Chesapeake Bay Portion</p>	<p>2022-2025</p>	<p>See 4.5B</p> <p>Old NRCS plans need to be updated to comply with prescribed grazing definition – difficult to get landowner buy-in – fund alternative watering and fencing; most pastures are streamside</p>	<p>Landowner education</p>	<p>CBF grant</p>	<p>3 – additional Ag Planners</p> <p>2 – additional FTE environmental technician</p>	<p>\$390,000 per year</p> <p>\$260,000 per year</p> <p>Prescribed grazing \$540 per acre: \$67,500 total</p> <p>FB Buffer with Excl. \$10,500 per acre: \$105,000 total</p> <p>GB Buffer with Excl. \$2,750 per acre: \$33,000 total</p> <p>Land Retirement \$500 per acre: \$200K total</p> <p>Pasture Alternative Watering \$500 per acre: \$125,000 total</p>	<p>2022: Phase 1 of BMP verification identified 50 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.</p> <p>Shifting CAP funding to cover gap in EQIP funding on an implementation project. Planning to apply for 2023 CAP Block Grant funding for a project. The district has an additional project opportunity they are exploring.</p>

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4.5F*	Implement more pasture management BMPs	<p>Prescribed grazing – 100 acres</p> <p>Forest buffers on fenced pasture corridor – 5 acres</p> <p>Grass buffers on fenced pasture corridor – 5 acres</p> <p>Land retirement to Ag Open Space – 70 acres</p>	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	See 4.5B Increasing construction costs are resulting in canceled NRCS contracts	Landowner education	CBF grant	<p>6 – additional Ag Planners</p> <p>3 – additional FTE environmental technician</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre: \$54,000 total</p> <p>FB Buffer with Exclusion \$10,500 per acre: \$52,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre: \$13,750 total</p> <p>Land Retirement \$500 per acre: \$35K total</p>	2022: Phase 1 of BMP verification identified 181 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.
4.5H*	Implement more pasture management BMPs	<p>Prescribed grazing – 4,600 acres</p> <p>Forest buffers on fenced pasture corridor – 25 acres</p> <p>Grass buffers on fenced pasture corridor – 25 acres</p>	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	Huntingdon County Ag landowners who raise horses, dairy, beef and other pasture grazing animals	2022-2025	See 4.5B	Landowner education	CBF grant	<p>6 – additional Ag Planners</p> <p>3 – additional FTE environmental technician</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre: \$2,484,000 total</p> <p>FB Buffer with Exclusion \$10,500 per acre: \$262,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre: \$68,750 total</p>	<p>2022: Huntingdon County AG BMPs is a GG grant that implements AG BMPs (mainly rotational grazing systems) on farms in Huntingdon County. BMPs include fence, watering systems, stream crossings, riparian buffer plantings, roof runoff structure, streambank fencing etc. Partners for the project include NRCS and HCCD. HCCD is about 75% completed with the project.</p> <p>Phase 1 of BMP verification identified 164 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.</p> <p>Pasture Alternative Watering increased by 1,000 acres from 2020 to 2021 progress in CAST.</p>

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4.6(B)*	Riparian buffer and reforestation BMPs	<p>350 riparian forest buffer acres – 50 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>85 riparian grass buffer acres –60 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>15 acres – urban forest buffer</p> <p>2 acres – urban tree canopy</p> <p>40 acres – urban forest planting</p>	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	<p>Landowner partnerships, 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</p> <p>Lack of technical assistance to conduct landowner outreach, implementation, and maintenance of proposed projects</p>	<p>Materials</p> <p>Mapping</p>	<p>Budget available to be determined</p> <p>Utilize PFBC incentive program to pay landowners for fishing access</p>	<p>6 – additional Ag Planners to provide TA and ag planning</p> <p>3 – additional FTE environmental technician</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Forest Buffer \$10,000 per acre: \$650K total</p> <p>Grass Buffer \$2,500 per acre: \$150K total</p> <p>Forest Planting \$10,000 per acre: \$400K total</p> <p>Tree Canopy \$5,000 per acre: \$10K total</p>	<p>2022: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.</p> <p>BCCD, buffer planned for Maple Hollow Townhouses and is in progress to be installed by the end of 2023, A 2-acre riparian buffer was established this Fall at the Newry Lions Club. The Conservation District is serving as an implementation partner for the Newry Lions Club to complete their work. They received funding through DCNR/WPC. Also, at this site in June they completed a stream bank stabilization project.</p>

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							Technical	Financial	Technical	Financial	
4.6(C)*	Riparian buffer and re-forestation BMPs	<p>174 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>113 riparian grass buffer acres –100 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>10 acres – urban forest buffer</p> <p>5 acres – urban tree canopy</p> <p>2 acres – urban forest planting</p> <p>56 acres – agriculture tree planting</p> <p>50 acres – forest harvesting practices</p>	CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag Land – Chesapeake Bay Portion	2022-2025	See 4.6B Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program on the order of \$4K per acre payment to landowner or to offset cost of hiring a contractor to maintain the buffer.	Materials Mapping	Budget available to be determined	3 – additional Ag Planners to provide TA and ag planning 2 – additional FTE environmental technician	<p>\$390,000 per year</p> <p>\$260,000 per year</p> <p>Forest Buffer \$10,000 per acre: \$200K total</p> <p>Grass Buffer \$2,500 per acre: \$250K total</p> <p>Tree/Forest Planting \$10,000 per acre: \$580K total</p> <p>Tree Canopy \$5,000 per acre: \$25K total</p> <p>Forest Harvesting \$60 per acre: \$3K total</p>	2022: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.

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4.6(F)*	Riparian buffer and re-forestation BMPs	<p>305 riparian forest buffer acres – 30 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>45 riparian grass buffer acres –20 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>23 acres – Agriculture Tree Planting</p> <p>40 acres – urban forest buffer</p> <p>10 acres – urban tree canopy</p> <p>1 acre – Urban Forest Planting</p> <p>150 acres – Forest Harvesting Practices</p>	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	See 4.6B Buffer plantings are becoming more expensive, must increase dollars per acre provided.	Materials Mapping	Budget available to be determined	<p>6 – additional Ag Planners to provide TA and ag planning</p> <p>\$780,000 per year</p> <p>3 – additional FTE environmental technician</p> <p>\$390,000 per year</p> <p>Forest Buffer \$10,000 per acre \$700K total</p> <p>Grass Buffer \$2,500 per acre: \$50K total</p> <p>Tree/Forest Planting \$10,000 per acre: \$240K total</p> <p>Tree Canopy \$5,000 per acre: \$50K total</p> <p>Forest Harvesting \$60 per acre: \$9K total</p>	<p>2022: Phase 1 of BMP verification will identified 243 potential hits for grassed waterways in Fulton County. Additionally, analysis will analyze forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.</p>	

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							Technical	Financial	Technical	Financial	
4.6(H)*	Riparian buffer and re-forestation BMPs	<p>414 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>65 riparian grass buffer acres –30 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>24 acres – Agriculture Tree Planting</p> <p>40 acres – urban forest buffer</p> <p>30 acres – urban tree canopy</p> <p>10 acres – Urban Forest Planting</p> <p>850 acres – Forest Harvesting Practices</p>	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering, Huntingdon Borough Tree Commission, Juniata River Blueprint Community, Juniata College, Mount Union Borough	Huntingdon County Ag Land	2022-2025	See 4.6B	Materials Mapping	Budget available to be determined	6 – additional Ag Planners to provide TA and ag planning 3 – additional FTE environmental technician	\$780,000 per year \$390,000 per year Forest Buffer \$10,000 per acre: \$500K total Grass Buffer \$2,500 per acre: \$75K total Tree/Forest Planting \$10,000 per acre; \$340K total Tree Canopy \$5,000 per acre: \$150K total Forest Harvesting \$60 per acre: \$51K total	2022- Huntingdon County AG BMPs is a GG grant that implements AG BMPs on farms in Huntingdon County. BMPs include streambank fence, watering systems, grazing plan implementation, and a silage leachate system. We are about 85% completed with the project. HCCD completed a Water Quality Improvement Project grant that included the construction of a roofed manure stacking area for a turkey operation where field stacking had previously been utilized. Partners for both grants include NRCS and HCCD. Spruce Creek Stream Restoration is a GG grant (held by Western PA Conservancy) that was completed in fall 2022 and included stream restoration and tree planting along Spruce Creek in Huntingdon County. Partners include PFBC and the Little Juniata River Association. DEP Growing Greener - Prioritizing Forested Buffer Incentives - Tier 1 and 2 Counties, Huntingdon, Juniata, and Dauphin - NRCS Codes: 560/575/340/382/561/468/516/367/558/578/580/620/645/360/313/614 - Conservation Districts and NRCS, This project will pickup landowner cost-share for NRCS practices if a buffer is installed, we also pay for site prep and maintenance of buffers. We have 12 projects, still looking for more, and are in the process of contracting with 7 contractors to do site prep and maintenance on buffers. Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported. 3 - acres of buffer planned in North Aughwick, and 2-acre buffer in Emma Creek.
4.7	Wetland restoration implementation on marginal production ag land	<p>26 acres of Wetland Restoration (B)</p> <p>28 acres of Wetland Restoration (C)</p> <p>18 acres of Wetland Restoration (F)</p> <p>14 acres of Wetland Restoration (H)</p>	Conservation Districts, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension, Watershed Organizations	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>Willing landowner; appropriate siting, design, and construction for successful restoration result</p> <p>Lack of technical assistance for landowner outreach and agriculture planning to identify potential site locations</p> <p>Lead time it takes to secure projects can take years</p>	Landowner outreach		11 – additional FTE environmental technician 7 – stream/wetland biologist	\$1,430,000 per year \$980,000 Wetland Restoration \$30,000 per acre: \$2.58M	2022: Huntingdon County - Sydwell project is being implemented this fall. Black farm is interested in pursuing wetland restoration with PAFBC.

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4.8	Stream Restoration (Urban and Agriculture)	<p>31,240 (~6 mile) Linear feet Urban Stream Restoration, 3,000 Linear feet Ag Stream Restoration (B)</p> <p>8,400 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream Restoration (C)</p> <p>3,000 Linear feet Urban Stream Restoration, 10,000 Linear feet Ag Stream Restoration (F)</p> <p>3,000 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream Restoration (H)</p>	<p>CBF, Chesapeake Conservancy, TU National, PFBC Stream Restoration Team, NRCS, Conservation District, Planning Commission, Municipalities, ISC, Watershed Organizations, Trust for Tomorrow, WPC, TU JK Chapter</p>	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 – 2025	<p>Design/permit/construction cycle seems to work in two-year increments, there is an assumption that eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field, adjust quantitative goal down and ensure buffers are in place</p> <p>Lack of funding to cover engineering design</p>	<p>Design/GP-1 permit assistance</p>		<p>Design, permit, construction services</p> <p>7 – Municipal Engineers (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2)</p> <p>11 – FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p> <p>7 – stream biologists (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2)</p>	<p>Urban -Assume \$900/LF - \$41.1 M; Ag - Assume \$400/LF -\$8.40 M</p> <p>-\$980,000 per year</p> <p>\$1,430,000 per year</p> <p>-\$980,000 per year</p>	<p>2022- NFWF Small Watershed Grant: Freedom Twp. Water & Sewer Authority (FTWSA) Stream Rest. Project; Blair and Freedom Twp., Blair County; \$242,904.28. Not announced yet. FTWSA Stream Rest. Project (above). BMPs include channel consolidation; bank full bench construction; channel blocks of back and side channels; bank stabilization through the installation of mudsill cribbing, log vanes, and overhead deflectors; and riparian buffer plantings. Funding needed: \$250,000 (scope has increased to include stab. of a small tributary since submitting the NFWF application). The Waiver 16 that was applied for has been authorized by DEP and USACE.</p> <p>Brubaker Run project, West Branch Susq. has projects was implemented in August 2022, Bradley Run project implemented in Fall 2022. Completed shoreline stabilization on Glenn Dale Lake. 7,340 linear feet were stablized.</p> <p>Big Cove Creek permit was received, construction should occur soon, Kerper Tract stream restoration is complete.</p> <p>Tuscarora Creek project is moving forward with Stream Restoration, North Branch Little Aughwick project is moving forward, Backlog Creek is fall construction. Spruce Creek Stream Restoration is a GG grant that will implement a stream restoration project along Spruce Creek in Huntingdon County. BMPs will include in-stream devices and a tree planting. Partners include PFBC and HCCD. The project is completed.</p>

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4.9	Implement more barnyard runoff control/loafing lot management	<p>30 acres of barnyard runoff controls (16 acres reverified), Work with GIS department to identify barnyards within 150 feet of stream for prioritizing (B)</p> <p>5 acres of barnyard runoff controls (2 acres reverified), 100 acres of agricultural drainage management (C)</p> <p>10 acres of barnyard runoff controls (2 acres reverified), 29 acres of agricultural drainage management (F)</p> <p>40 acres of barnyard runoff controls (10 acres reverified), 30 acres of agricultural drainage management (H)</p>	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>Landowner buy-in and project development/funding</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p> <p>Lack of funding to cover engineering design</p> <p>Increasing construction costs are cancelling NRCS contracts</p>	Engineering Support		<p>21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>11-FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p> <p>11 - FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p>	<p>\$2,730,000 per year</p> <p>\$1,540,000 per year</p> <p>\$1,155,000 per year</p> <p>Barnyard Runoff Control \$175K per project, assume 1 acre per project (\$9.625M)</p> <p>Agriculture SWM \$10,000 per acre (\$1,590,000)</p>	<p>2022: Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. CAST continues to limit the number of opportunities for this BMP.</p> <p>Blair County is continuing to explore project opportunities.</p> <p>Cambria County: utilized 2022 CAP Grants to fund a 2000 sqft roofed HUAP. Final walkthrough with contractor is took place in August of 2022.</p> <p>Fulton County: NRCS EQIP projects are funding new HUAPs and barnyard runoff controls. CAP dollars are "gap" filling 3 project in 2022.</p> <p>Huntingdon County - Growing Greener project will include barnyard runoff controls. Construction will be completed by the end of the year.</p>

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4.1	Additional animal waste management BMP implementation for livestock	<p>10,000 new AUs of animal waste management systems (B)</p> <p>2,800 new AUs of animal waste management systems (C)</p> <p>10,000 new AUs of animal waste management systems (F)</p> <p>10,000 new AUs of animal waste management systems (H)</p>	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>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 result in willing landowners</p> <p>Lack of funding to cover engineering design</p>			<p>21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>11-FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p> <p>11 - FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p>	<p>\$2,730,000 per year</p> <p>\$1,540,000 per year</p> <p>\$1,155,000 per year</p> <p>Animal waste management system \$175,000 per project, assume 100 AUs per project \$57.4M in total</p>	<p>2022: BMP Verification Phase 1, shows the potential to report an additional 52 animal waste storage facilities in Blair County, 4 in Cambria County, 58 in Fulton County, and 53 in Huntingdon County, currently not reported through PracticeKeeper. Field Verification will need to occur on each storage system.</p> <p>Blair County applied to Growing Greener for technical assistance to support 4 manure storages.</p> <p>Huntingdon County: Large project opportunity in Warriors Mark Run. Finishing stacking shed for a farmer in 2022.</p>

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4.11*	Urban Stormwater Management, Non-Regulated (MS4) Communities	<p>Runoff Reduction Performance Standard – 47(F), 13(H) Acres treated</p> <p>Stormwater Treatment Performance Standard – 3(H) acres treated</p> <p>Wet Ponds and Wetlands – 138(B), 90(C), 75(F) Acres treated</p> <p>Advanced Grey Infrastructure – 2,600 (B) Acres treated</p> <p>Bioretention – 5 (B) acres treated</p> <p>Vegetated Open Channels – 492 (B) acres treated</p> <p>Infiltration Practices – 2 (B) acres treated</p> <p>Filtering Practices – 5 (B) Acres treated</p> <p>Dry Detention Ponds – 172 (B) Acres treated</p> <p>Dry Extended Detention Ponds – 39 (B) Acres treated</p>	Planning Commission, ISC, Municipalities	<p>Blair County Developed areas</p> <p>Cambria County Developed areas – Chesapeake Bay Portion</p> <p>Fulton County Developed areas</p> <p>Huntingdon County Developed areas</p>	2022-2025	<p>Coordination/ training for municipal staff, FieldDoc batch upload opportunity, non-MS4 engagement (what’s in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present)</p> <p>Implement existing ordinances at local municipal level</p> <p>Catalogue existing BMPs that fit into this category and newly built ones</p>	Reporting platform		<p>18 Summer interns for reporting and verification</p> <p>7 – Municipal Engineers</p> <p>4 – municipal planner</p>	<p>\$180,000 – per year</p> <p>\$980,000 per year</p> <p>\$520,000 per year</p> <p>\$5 M overall project budget</p>	2022: no progress to date.

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4.12*	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	PRP Plan implementation by end of current permit term Bioretention – 77 acres treated Dry Ponds – 3 acres treated Stream Restoration – 17,940 LF (part of total stream restoration goal)	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission, Engineering Consultants	Blair County MS4 Municipalities	2022-2023	Municipal capacity to implement plans (technical, financial) Develop a grant funding source just for MS4 communities so they are not competing against all stakeholders. Need larger sources of funding. Land available to implement projects. Expanded flexibility to work outside of designated areas	Municipal engineer design/permit, construction readiness	Each Muni is contributing percentage cost to help fund projects, stormwater fees do exist	2 – Municipal Engineers 1 – municipal planner	\$280,000 per year \$130,000 per year Bioretention \$500,000 Dry Ponds \$30,000	2022: Blair County continues to implement PRP BMPs to date 85,661lbs of sediment has been reduced. An additional 700K lbs. of sediment must be reduced to meet the Intergovernmental Stormwater Committees joint PRP allocation.
4.13	Conservation Landscaping/Turf to Meadow Conversion	Promote new program and enable one large tract landowners' participation 140 new acres of Conservation Landscaping (B) 50 new acres of Conservation Landscaping (C) 60 new acres of Conservation Landscaping (F) 50 new acres of Conservation Landscaping (H)	DCNR, Chesapeake Conservancy, municipalities CBF, Conservation District, Planning Commission, ISC, Watershed Organizations	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion Fulton County Developed areas Huntingdon County Developed areas	2022 - 2025	Landowner education and acceptance Existing mowing ordinances or weed ordinances may be a challenge in some communities	Planting plan assistance		4 – FTE Municipal Planner 11 – additional FTE environmental technician	\$520,000 per year \$1,430,000 per year \$2,500 per acre meadow à \$750,000 budget for all	2022: Fulton County: FCCD implemented Conservation Landscaping at the district office.
4.14	Impervious surface reduction project	Identify a flood prone area that could be converted to a park or open space 5 – acres Impervious Surface Reduction (B)	Planning Commission, eligible municipalities	Blair County	2022-2025	Lack of local interest, property purchase/donation	Mapping	Available budget to be determined	4 – FTE Municipal Planner Design, permit, construction	\$520,000 per year \$287,300 for impervious surface reduction	2022: Action item #20 of the Hazard Mitigation Plan was updated regarding the flood buyout program sparked renewed interest and municipalities are seeking interested parties to participate in the program. This ties into the CAP item on converting impervious cover to parkland.

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

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4.15*	Continue dirt and gravel road program for each county Conservation District	<p>21 miles overall restored through past projects and future projects (B)</p> <p>21 miles overall restored through past projects and future projects (C)</p> <p>26 miles overall restored through past projects and future projects (F)</p> <p>88 miles overall restored through past projects and future projects (H)</p>	<p>Blair County Conservation District</p> <p>Cambria County Conservation District</p> <p>Fulton County Conservation District</p> <p>Huntingdon County Conservation District</p>	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	Ongoing	<p>Continue D&G Road program funding</p> <p>Cambria – increase DGLVR education opportunities by 5% over 5 years</p> <p>Education of municipalities can be challenging, need more involvement from all municipalities</p> <p>Expand Dirt and Gravel Road eligible practices to include farm lanes</p>	<p>Education, technical assistance, project oversight</p> <p>Blair County using NFWF Grant for private farm lane improvement implementation</p>	<p>\$1.6 million since 1997</p> <p>\$1.75 million since 1997</p> <p>\$2.0 million since 1997</p> <p>\$4.0 million since 1997</p>	<p>4 – FTE Clean Water Coordinator for Conservation District</p> <p>Dirt and Gravel Roads \$40 per foot TBD</p>	<p>\$520,000 per year</p> <p>\$520,000 per year</p>	<p>2022: Blair County: completed a low volume road and assessed another Dirt and Gravel Road project, continues to receive approximately \$180K per year to support implementation.</p> <p>Cambria County: completed a project for a low volume road, and has an additional contract for more work on the same road. Includes stream crossings, drainage work. All data entered into DGLVR GIS system.</p> <p>Fulton County: active projects for 3-4 locations. May have issues spending low volume roads, due to more stringent stream crossing rules.</p> <p>Huntingdon County - accepting applications through the end of August, expect to do drainage and dirt and gravel projects. Completed two stream crossings fall 2022.</p>
4.16*	Work with PennDOT and local municipalities to reduce frequency of mowing road ditches and along roadways	Educate local municipal leaders and work with PennDOT to address state owned roads on the importance of keeping higher vegetation along roadways to prevent erosion and increase nutrient uptake.	Local Municipalities, DEP and PennDOT	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	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.			<p>4 – FTE Clean Water Coordinator for Conservation District</p> <p>4 – FTE Clean Water Coordinator for Planning Commission</p>	<p>\$520,000 per year</p> <p>\$520,000 per year</p>	2022: No progress to date.

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4.17	Private Funding & 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	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2023	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		4 – FTE Conservation District Grant Manager 4 – FTE Planning Commission Grant Manager 8 – staff accountants	\$520,000 per year \$520,000 per year \$560,000 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. A potential grant application would bolster farm visits in all counties to increase the adoption of Conservation Practices.
Priority Initiative 5: Research, Education, and Training: Blair, Cambria, Fulton and Huntingdon County											
5.1A	Incorporate existing water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative	Successful data input/acceptance by ALLARM program by end of 2021 Work with Foundation of PA Watersheds to establish their data into CMC <i>Work with BCCD and Altoona Water Authority to report data</i> Work with water and sewer authorities that monitor to include data in the Chesapeake Bay Model and/or CMC	ALLARM, Local watershed groups, Pa Foundation of Watersheds, BCCD, Altoona Water Authority, Ridge and Valley Stream Keepers, Stroud, Clearfield Creek Watershed Association, Juniata College	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2023	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it <i>Explore ways to present local data working with Juniata College</i>	Data QAQC and training Data Input Monitoring Support		Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/enviro nmental scientist	N/A \$40,000 \$1,430,000 per year \$980,000 per year	2022: ALLARM is in the process of developing citizen scientist monitoring data collection protocols to assist with stream health data collection. Should the protocol be approved, it will be shared with all Counties.

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5.1B	Initiate additional water quality monitoring sites that promote long-term trend evaluation at key locations	Location identification, financial and volunteer budget analysis, and initial landowner communication by end of 2021 CAST-21 acknowledgement of our data Map existing monitoring locations Expand monitoring based on Corridors of Opportunity area monitoring gaps Have DEP Re-assess Spring Run Fulton County	ALLARM, Keystone Water Resources Center, Local University, Altoona Water Authority	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide, Specifically Fort Run	2023-2024	Land access, expanded volunteer need, equipment/materials budget, Consistent data collection, QAQC continuation Explore ways to present local data working with Juniata College			Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/environmental scientist	N/A \$40,000 \$1,430,000 per year \$980,000 per year	<p>2022: In the fall of 2022, HRG will convene the Watershed Specialist to identify the largest "gaps" of water quality monitoring data, develop strategies to comprehensively incorporate new data to support CAP efforts.</p> <p>Blair County: BBCD is doing water quality monitoring currently within Brush Run along Lakemont Park and the Reservoir. They have two stations out at this time to collect Turbidity, Specific Conductivity, temperature, pH, and dissolved oxygen. Monitoring has been taking place over the past 2-3 years. Data was collected prior to BMPs being installed so there is baseline data to compare to data collected during and after BMP implementation.</p> <p>Cambria County: has data loggers out in various watersheds across the county. Did some monitoring on the WB Susquehanna.</p> <p>Huntingdon County: Finished up 2022 WQ monitoring for district and Conservancy monitoring over 20 different site locations. Will send data to PA DEP soon. 2021 WQ data was accepted by PA DEP after QAQC. Data includes mainly impaired watersheds.</p>

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5.2	Create new and enhance existing local watershed associations for short-term success and long-term sustainability	Develop new or reestablish existing watershed associations to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation	ALLARM, Keystone Water Resources Center, Local University, Tri-Run Watershed Association (Enhance), Little Juniata River Watershed Association, JK TU Chapter	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	Ongoing	Willing volunteers and leaders to establish and run watershed organizations to be successful and support with implementation Enhance the capacity of local watershed associations for short-term success and long-term sustainability	Social media shares Project development support		4 – FTE Clean Water Coordinator for CD 4 – FTE Clean Water Coordinator for Planning Commission	\$520,000 per year \$520,000 per year \$5000 per organization to produce promotional materials (hats, shirts, stickers) for members à \$60,000 per year	2022: Cambria County: District has been assisting Clearfield Creek Watershed Association with AMD project work. Huntingdon County: Little Juniata River Watershed Association has started to meet more frequently.