			2024	Phase 3 Watershed Imple	ementation Plan (WIP) Plann	ing and Progress Report – JUNIATA COUNTY					
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			·				Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
<b>Priority Initi</b>	ative 1: County Programmatic Initiative	es									
1.1A		Ensure that growth activities address existing water quality impairments through stormwater BMP implementation. Encourage municipalities to follow their existing ordinances. Include priorities of the completed CAP Plan.  Encourage municipalities to plan by watershed.  Encourage minimized fragmentation of forest and ordinances to conserve sensitive natural areas and promote conservation – 450 acres of forest conserved	JCPD, Municipal Officials, Juniata Clear Water Partnership	n Countywide	2022 Plan Funding Secured – Beg Plan 2025 – Finalize Plan	Educating municipalities, updating local plans and ordinances, ensure municipalities understand how ordinances can affect the watershed.  Ordinance enforcement is a challenge.	Education & Coordination		1 – FTE Clean Water Coordinator for Planning Commission	\$300,000 per year \$300,000 funding to support Comprehensive Plan Update \$2,000 per acre of forest easement  \$900K total	2024: No funding is currently available to proceed to update the comprehensive Plan from 2009.  2023: No progress to date.  2022: Funding sources are being investigated by the County Commissioners. No movement at this time.
1.1B		Help ensure the groundwater and surface water resources of the county are protected from overuse or degradation.  Work with municipal authorities to educate on benefit of Source Water Protection Plan – work with DEP on development of Plans where feasible.	Municipalities, Municipal Water Authorities, Mifflintown Municipal Authority	Countywide  Mifflintown – Source Water Protection Plan	2022 - Education	Juniata County has no local (Municipal) land use authority.  Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach and connecting landowners with water quality needs with available resources.			1 – FTE Clean Water Coordinator for Planning Commission Source Water Protection Plan development	\$130,000 per year \$100,000 for Plan	2024: No progress to date.  2023: No progress to date.  2022: Outside of one on one discussions, there hasn't been formal training.  Municipalities have other priorities at the moment. Mifflintown Water  Authority SWP Plan is the only one that JCCD is aware of.
1.1C*	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Identify landowners willing to participate and work with the following partners to identify (5) buffer opportunities: JCCD, JCPC, PSU Extension, Juniata Watershed Alliance.  As stated in Juniata County Heritage Plan, look to increase buffer width where feasible and preserve existing buffers.	JCCD, CBF, PPL, DCNR, PFB, PSU Extension, Juniata Watershed Alliance	Countywide	Ongoing	Willing Landowners interested in implementation. "Selling" buffers is tough.  Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.  Tree availability has been an issue the last 2-years. Not enough inventory to plant desired species.	landowner outreach; on the ground riparian project execution	·	5 1 – FTE Clean Water Coordinator for Planning Commission  1 – Additional Watershed Specialis for Conservation District	st \$130,000 per year	Working to identify additional landowners to participate.

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1.1D	Look to revise existing Act 537 plans in Juniat County	Existing Act 537 plans range in age from 1968 – 2010. Look at the feasibility of updating plans or plan creation for municipalities for those who do not have a plan, look to incorporate new pumping guidelines.		Municipalities	2022 Municipal Meeting to discuss options	Landowner education will be needed to promote proper on-lot septic system maintenance. Municipal enforcement will also be needed. Juniata County has no local land use authority.  Lack of timely DEP enforcement of the Act 537 Program		1 – FTE Clean Water Coordinator for Planning Commission	\$1,000,000 funding t update Act 537 plan with willing	2024: No progress to date.  2023: No progress to date.  2022: No updated plans at this time. Look to hold a municipal meeting in the of fall of 2022. Funding still remains an issue.
									municipalities	
1.2*	Act 167 Stormwater Management	Secure funding to develop new Municipal Act 167 plan for willing municipalities.	JCPD, JCCD, Municipal Officials	Interested Municipalities	2022 -Municipal Meeting to discus options	Should local involvement exist, funding for Plan update, Juniata County has no local (Municipal) land use authority  Need for technical assistance to develop Act 167 Plan		Act 167 Plan Development  1 – FTE Clean Water Coordinator for Planning Commission	\$1,000,000 \$130,000 per year	2024: There is currently no funding available to develop Act 167 for Juniata County.  2023: No progress to date.  2022: The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Juniata county currently has no Act 167 plan, but with new funding plans to explore opportunities to develop an Act 167 Plan.  With Juniata County having no ordinances, JCCD is investigating how the process and requirements will work for the County. Hold municipal meeting in the fall of 2022.
1.3	Implement County Hazard Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality.  Refer to the 2020 Juniata County Hazard Mitigation Plan Update.  Ensure all municipalities have updated their floodplain management ordinances.	County Planning Commission, Emergency Management agencies, municipalities	Countywide	in HMP for funding	Funding, mitigation projects as submitted by Municipalities.  Current Requirements by PEMA/FEMA are tough to receive funding – funding available only if hazard is identified by FEMA/PEMA and needs extremely project specific.	JCPD, JCEMS	Engineering Feasibility Study  1 – FTE Clean Water Coordinator for Planning Commission  Project Implementation	\$150,000 \$130,000 per year \$500,000	2024: Currently updating the 2025 Juniata County Hazard Mitigation Plan.  2023: No progress to date.  2022: The 2022 plan update was completed in June and has gone to the Commissioners for review. There was robust township participation in the update.  With update in hand, funding will need to be secured to bring plan projects to shovel readiness for implementation.
1.4*	Continue to Implement County Farmland Preservation Program.	Total farmland preservation (26 farms in program currently – approx. 3100 acres)  Look to fund 1 additional farm per year in preservation program.  – 3,000 acres of farmland conservation  As stated in the Juniata Heritage Plan & Open Space Plan look to create Ag Preservation Zones  Work to identify additional funding for Agriculture Conservation Easement program with goal to double acreage preserved.	Heritage Plan, Juniata County Greenways and Open Space Plan	Agricultural Security Area farms that fit farmland preservation criteria	Ongoing	Preserved farms in Juniata Co. are inspected annually for Nutrient Management, Ag E&S, etc., and are kept in compliance with current regs as per easement conditions.  Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide.  Lack of funds to preserve land. Landowner willingness decreases due to the reality of the limited funds, if they don't rank at the "top" of the list, over years they quit applying.		JCALP Administrator  Easement Purchases  1 – FTE Clean Water Coordinator for Conservation District	\$160,000 state funding per year and \$15,000 from county per year 2 total \$875,000	2024: Two farms are planned to be preserved in 2024 & 2025 with an estimated Acreage of 128.76 acres.  2023: Two farms preserved in 2023. One easement is 108.5 acres, the other is 38.5 acres. The next application round will open in November 2023.  2022: There are about two farms, roughly 143 acres, are to be preserved. JCCD is waiting on the landowners to accept their offers and submit deposits. JCCD is securing encumbering funds and they are expected to close in summer of 2023.  The application period is advertised in the local paper and online. The application period is every other year from December to the end of January. 13 applications came in for this round. JCCD was able to select 2. It is a popular program that doesn't need a lot of outreach to identify participants.  Landowners who aren't selected receive a letter to reapply in future rounds. If there was more money in the pipeline, there would be more applicants.
1.5*	Establish funding/staff support to assist the Agricultural community.  670 farms exist in Juniata County	Approximately 100 have their plans in Juniata County, goal is to complete 200 by 2025.  Work with private ag consultants to document plan reporting.  Implementation challenges (continued): In order to communicate effectively with the farming community one on one farmer outreach must be conducted.  The most effective way to capture and report BMPs is through one-on-one farm visits. Farmers do not participate in surveys or other methods.	farms, West Branch Association, certified organic farmers, Integrators, Private AG Consultants	Countywide	2022-2025			6 – additional Ag Planners to provide technical assistance and ag planning  3 – FTE Design, Engineer, Permit  3 – FTE Inspector Construction Services  1 – FTE Clean Water Coordinator for Conservation District  1 – Administrative Assistant  1 – agronomist	\$780,000 per year \$420,000 per year \$315,000 per year \$130,000 per year \$75,000 per year \$130,000 per year	2024: The Foundation for Pennsylvania Watersheds finalized their Growing Greener grant agreement and set up contracts with HRG, Lancaster Farmland Trust, and Clearwater Conservancy for outreach and technical assistance. Work orders for ag I&Es, permits, and full designs are underway for the regional service area.  2023: FPW was awarded a Growing Greener grant for \$800,000 that will support 12 counties, including Juniata, with farm outreach, planning, permitting, and project design. Outreach is planned to begin in the fall. JCCD has hired a new District Manager, a Chapter 102/Ag E&S Tech, and a Chapter 102/DGLVR Tech to assist in this goal.  2022: The Foundation for Pennsylvania Watersheds (FPW) applied for a Growing Greener grant totaling \$1.6 million to support additional ag engineering needs along with increased farm visits. In 2021 Lancaster Farmland Trust completed 20 farm visits. In 2022 the Lancaster Farmland Trust completed an additional 10 farm visits.

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1.6	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 for funding  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.		Applied for \$37,785 & 37,286 of match	1 – FTE Clean Water Coordinator for Planning Commission  1 – FTE Clean Water Coordinator for Conservation District	Rapid Delisting	2024: The draft of Juniata Forward: Building on 25 Years of Conservation, an update to the Juniata Watershed Management Plan, is complete and will be available for public comment starting October 1, 2024 and lasting for 30 days. Each municipality will be emailed with a link to the plan to provide comments. WPC will also put out a press release and social media posts to garner comments. Comments will be detailed in the final version of the plan. The final plan will be completed by the end of 2024.  2023: Update from WPC:  Developed a public survey to garner input from constituents in the watershed. So far, 67 people have filled out the survey. Survey was advertised on social media by WPC and all members of the steering committee. A flyer was made with a QR code for advertising. WTAJ also featured a snippet on television and their website advertising the public meeting and the survey. A few signs featuring the QR code were developed and set up at Nature Works Park and the Blair County Conservation District.  Developed a municipal survey to get specific input from municipal officials. 35
											municipalities have participated.  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 summer/early fall.

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			. aranasampa				Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
1.7	Utilize Existing TMDLs to leverage the need for water quality improvement plans  Juniata College, PSU, or other nearby institution Partnership - Implementation	Leverage TMDLs to help educate local citizens on the need for water quality improvements  Explore the potential feasibility of developing 319 WIPs, Coldwater Conservation Plans or Alternative Restoration Plans for TMDL watersheds  Develop undergraduate and graduate students to support staff with implementation	Juniata College, PSU University or other nearby institution, Water4Ag	Markee Creek, Hunters Creek, West Branch Mahantango, Warble Run, Cedar Spring Run  Working in Little Lost Creek  319 Priority Watershed  Riparian properties  Preserved farms  Priority Corridor Watersheds - Markee Creek, Hunters Creek, West Branch Mahantango, Warble Run, Cedar Spring Run, Little Lost Creek	2022-2025	Financial and Technical assistance to develop 319 or Alternative Restoration Plan plans for TMDL watersheds.  Willingness of local volunteers to support in implementation of 319 plans.  Lack of existing watershed organizations and dwindling membership.  Continued undergraduate/graduate engagement as students graduate, distance for students to travel.  Lack of technical assistance professionals to mentor students.  Lack of competitive paying job opportunities that ensure long term sustainable for recently graduated students.			1 – FTE Clean Water Coordinator for Planning Commission  1 – FTE Clean Water Coordinator for Conservation District Additional staff for PFBC  5 – Student Internships to Support CAP Implementation	\$130,000 per year	2024: No Progress to date.  2023: No progress to date.  2022: Cocolamus Creek is undergoing the development of an alternative restoration plan to address nutrients and sediment. The plan is set to be finished by the end of 2022.  2024: JCCD hired Sarah Hershey as a summer intern in 2024. Sarah is a current Agribusiness student at Delaware Valley University. Sarah assisted JCCD staff from May 2024 to August 2024 before continuing her undergraduate education at Delaware Valley University. Sarah learned about the programs the Conservation District offers including surveying stream restoration projects completed through CAP funding.  2023: JCCD hired Cora Musser as an intern from April to August of 2023. Cora is currently enrolled in PSU Monte Alto Campus and graduated from Juniata High School.  2022: No progress at this time.

timing, identify responsible staff

2022 – develop local content, Simplifying the resources that are available

Sharing staff resources across the 4-county region

CBF, Chesapeake Conservancy, NRCS, Countywide

JCCD, JCPC, Private Sector Agriculture

Farm Visits, Juniata Watershed

Develop messages and audience; execute plan and distribute messaging through

Plans, Comprehensive Plan, Heritage Plan,
Hazard Mitigation Plan, and Greenways Plan

Utilize the DPJM County Countywide Action Plan (arcgis.com) - ARC GIS website as a source of consistent communication

Alliance, municipalities, Farm Bureau, Juniata College

1.9A Work to develop a Juniata County Water

quality communication plan, leveraging

Utilize existing TMDLs as part of the

existing documents, Coldwater Conservation

Arc GIS Hub Website

1 – lead county contact

development and

maintenance

and Outreach Coordinator

Commission

1 – FTE Clean Water

2024: Numerous social media posts have been made regarding water quality.

highlighted water quality improvements in the annual report. The Delaware

Creek stream restoration project at the Thompsontown AMVETS was featured

newsletter title "Conservation Conversations" that will highlight water quality.

2022: The DPJM Countywide Action Plan website listed in the Performance

Countywide Action Plans. Additionally, a GIS tracking data base has been

JCCD has released the "Conservation Conversations" Newsletter and

JCCD utilizes its annual report for outreach as well.

added to capture the location of potential projects.

in the Juniata Sentinel.

1 – FTE Marketing \$130,000 per year 2023: JCCD is very active with social media and is starting a quarterly

Coordinator for \$130,000 per year Targets has been updated to include information about implementation of the

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			Partnersnips				Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
1.9B	Agricultural Communication Strategy	One on one farm outreach is the best way to communicate with farmers. Work to develop a plan to complete one on one farm visits.  Work to develop a communication plan to engage integrators.  Partner with pesticide meetings and other AG meetings to provide information.  Utilize Farm Bureau Newsletter for announcements	CD, County Farm Bureau, Integrators, Ag Land Preservation, PSU Extension, NRCS, 4R Alliance	Countywide	2022-2025	Funding to support the technical assistance required to complete one on one farm outreach.  Outreach to integrators is a challenge due to the number of integrators and multiple country boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages.			6 – additional Ag Planners to provide technical assistance and ag planning  1 – FTE Marketing and Outreach Coordinator  1 – FTE Clean Wate Coordinator for Conservation Distri  1 – agronomist	\$130,000 per year	2024: 15 LFT farm visits are planned for the fall of 2024 to propose BMPs for farms and gather information for Inventory and Evaluations (I&Es)  2023: 25 LFT farm visits are planned for the year, in addition to the FPW Growing Greener grant.  2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In 2021 20 farm visits were conducted and in 2022 an additional 10 visits were completed. 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 within Juniata County. Scaling up of farm visits would allow for additional outreach to occur.
<b>Priority Initia</b>	ative 2: Reporting and Tracking										
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, manure	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 or another batch upload option (FieldDoc)	Juniata College, Chesapeake Conservancy, Stakeholder peer review - USGS, Farm Bureau, PDA, EPA	Countywide	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		N/A	Further GIS and data processing/method refinement  2 staff people to follow up on BMP verification annuall (staffers are a part the identified 6 – as planners identified elsewhere)  5 – Student Internships to Support CAP Implementation	\$260,000 per year ly of	2024: JCCD Staff have been introduced to Practice Keeper and FieldDoc, however more time for training will need allotted prior to reporting BMPs through Practice Keeper.  2023: No progress to date, but with new District staff brought in during the year, it will be explored how to integrate BMP verification into their roles and capacity.  2022: In December of 2021, Juniata County was awarded \$30,000 to conduct Phase 1 of a multiphased BMP verification remote sensing effort. Juniata County elected to use all of the money on the remote sensing analysis focusing on five priority BMPs including: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and Streambank Exclusion Fencing. 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 Juniata 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*		BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest	Lead - Chesapeake Conservancy	Countywide	2022 – cataloguing	Different data set scales/precision, processing time	Precision Conservation Tools	N/A		\$46,000 (2022 only)	2024: No progress to date.
		conservation, stream restoration	Stakeholder peer review – Juniata		2023 – batch upload processing and	d			processing/method refinement		2023: As a part of the Chesapeake Conservancy's Cooperative Agreement
		Back check with staff field views	College, USGS, Farm Bureau, PDA, Municipal Engineers,		field views		Batch upload processing		5 – Student	\$50,000 per year	with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and
		Batch upload to FieldDoc to calculate credit opportunity	municipalities		2024 – 2025 – implementation		BMP field backcheck		Internships to	, , ,	produce its related GIS conservation practice opportunity outputs for the
					focus				Support CAP Implementation		entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale some have direct equivalents to Bay Program
											BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are
											not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground
											input. The outputs are expected to be publicly available after June 2024.
											2022: No progress to date.
2 3*	Dovolon a local system to canture data	Add dovelopment related PMPs to DK/FieldDes so that as land use data sets are	Municipal anginoers Charanaaka	Urban/suburban landscape	202	2 Currently municipalities are not collecting PMP data because it is	Poparting platform	N/A	Training	NI/A	2024: No progress to date
2.5	Develop a local system to capture data collection on urban structural and non-	Add development related BMPs to PK/FieldDoc so that as land use data sets are updated, there are accompanying BMPs	Municipal engineers, Chesapeake Conservancy, JCPC, Municipalities,	or barry suburbarr lariuscape	202	2 Currently municipalities are not collecting BMP data because it is not required in non-MS4 communities. Must incentivize	Reporting platform	IN/A	Training		2024: No progress to date.
	structural practices		student interns			communities to report, no existing system in place.			5 – Student Internships to	\$50,000 per year	2023: No progress to date.
									Support CAP Implementation		2022: The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant in April of 2022 to support Phase 2 of BMP verification
									·	4.00.000	remote sensing analysis. Phase 2 would include analyzing wet ponds and
									1 – Municipal Planner	\$130,000 per year	detention basins in urban areas across Juniata County. PA DEP has updated FieldDoc to allow for additional reporting of urban practices. The grant was
											not awarded.
2.4*	Implement a documentation program for	Cupport fortilizar logislation, where logislation requires reporting he the data	DCII Futoncian	Countywide	TRD	Education of responsible parties, receiving timely information	TBD based on fertilizer	TDD based or	1 – FTE Clean Water	¢120,000 por year	2022. On July 11. Covernor Welf signed SP 251, a hipartisan hill spansared by
<del>2.4*</del>	commercial and homeowner nutrient	Support fertilizer legislation – where legislation requires reporting, be the data clearinghouse	PSU Extension	Countywide	<del>180</del>	Education of responsible parties, receiving timely information, training on reporting system, will need direction from State on	legislation if passed	<del>fertilizer</del>	Coordinator for	\$130,000 per year	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
	applications in developed lands	Legislation will support the implementation of <b>Urban Nutrient Management – 1,200</b>				what's expected and any reporting system that's developed.		legislation if passed	Planning Commission		now has a law governing turfgrass fertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and
	Support current legislation for fertilizer bill.	acres						ľ			crediting will occur with the new bill.
										Urban Nutrient	
										Management \$10 per acre 2 \$12,000	<del>r</del>
2.5*	Improve Agricultural BMP reporting utilizing	Increase reporting of agriculture plans into Practice/Copper	DEP, JCCD, NRCS, PDA, NRCS, Juniata	Countravido	2022-2025	Private sector ag planners do not have access to PracticeKeeper.			5 – Summer interns	\$50,000 – per year	2024: JCCD Staff have been introduced to Practice Keeper and FieldDoc,
2.5*	PracticeKeeper, Capital RC&D Transect	Increase reporting of agriculture plans into PracticeKeeper	County Farm Bureau, Capital RC&D,	Countywide	2022-2025	Ag planners do not have time to report into PK.			for reporting and		however more time for training will need allotted prior to reporting BMPs
	Survey, PSU Survey, Manure Transport Reporting and Remote Sensing	Work with Capital RC&D to improve current transect survey routes to be more inclusive	Chesapeake Conservancy, PSU Survey, Manure Brokers			Current Capital RC&D routes are not all inclusive.			verification	See 3.5 for funding needs to improve	through Practice Keeper.
		Work with PSU to produce better response rate to the PSU survey for Juniata County				Current response rates are low and miss a large demographic of				cover crop reporting for Capital RC&D	2023: Capital RC&D Cover Crop Survey held in June 2023.
						Juniata County farmers.				Tor capital nead	2022: In the Spring of 2022 HRG participated in a beta testing group for the
		Work with PDA/DEP to improve manure transport reporting				Manure brokers are not required to report data annually. Data is	;				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
						not all inclusive.					BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into
											PracticeKeeper.
<del>2.6*</del>	Standardized Reporting for Dairy Precision	Counties would like to utilize the dairy precision feeding BMP. However, current	Chesapeake Bay Program, Penn State-	Countywide	202	2 It is recommended that milk urea nitrogen (MUN) be an	N/A	N/A	Reporting protocol	N/A	2022: No progress to date, reporting standards still remain an issue to utilize
	Feeding	reporting guidelines do not allow for clear reporting standards on feed reduction amounts, how to report, and who is qualified to report. Improved reporting	Extension, Dairy co-ops			acceptable standard for reporting dairy precision feeding.  Guidelines need to be posted on acceptable MUN rates and work	<del>(</del>				the BMP.
		standards would allow 3,400 Animal Units of Dairy Precision Feeding				with dairy integrators to receive MUN data to report to DEP.					
Priority Initiat	ive 3: Achieve New Pollutant Reduct	tions									
3.1		Potential agriculture BMP restoration on a CAFO located in Dougherty Run	JCCD, Juniata Watershed Alliance,	Willow Run Watershed	Ongoing	Lack of volunteers to support Juniata Watershed Alliance. Ensure	Technical Support and plan		1 – FTE Clean Water	\$130,000 per year	2024: PA Fish & Boat has been contacted about Willow Run and possible
	Conservation Plan	Look at requiring timber management plans for lumber mills in the watershed	Municipalities	Dougherty Run		support of watershed alliance moving forward.	development		Coordinator for Planning		stream restoration projects. A site visit is to be performed in the near future to determine project scoping. The Willow Run Conservation Plan is also being
		Widen forest buffer at State Game Land 215 to 100 feet in width		Lack and Tuscarora Townships		Lack of technical assistance and funding to support BMP implementation.			Commission		partnered with PA Game Commission
				Luck and Tuscalora TOWNSNIPS		implementation.			1 – FTE Clean Water	4400	2023: No progress at this time.
		Plant a buffer in Willow Run and Dougherty Run							Coordinator for Conservation District	\$130,000 per year	2022: No progress at this time.
		Work with landowners to improve riparian areas									
		Increase water quality monitoring								\$25,000 to increase	
										water quality monitoring	
										\$500,000 for BMP	
									1	Implementation	

2024 Phase 3 Watershed Im	plementation Plan (V	VIP) Planning	and Progress Re	port – JUNIATA COUNTY
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Action #	Description	Performance Target(s)	Green - action has been completed o  Responsible Party(is) and	or is moving forward as planned Geographic Location	Yellow - action has encountered m  Expected Timeline	ninor obstacles Red - action has not been taken or has encounter  Potential Implementation Challenges or Recommendations	red a serious barrier  Resources <u>Available</u>	Resources <u>Needed</u>	
	·		Partnerships		· ·		Technical Financial		ancial Annual Progress to Date
3.2	Implement Lost Creek Cold Water Conservation Plan	Opportunities for streambank restoration especially in lower portions of lost creek watershed  Riparian buffers and agriculture BMPs are also a way to restore lost creek  Potential formation of a new watershed group  2 — potential new restoration opportunities to explore  1 — stream restoration project to be completed soon	JCCD, Juniata Watershed Alliance, WPC, PFBC	Lost Creek Watershed	Ongoing	Lack of volunteers to support Juniata Watershed Alliance. Ensure support of watershed alliance moving forward.  Lack of technical assistance and funding to support BMP implementation.		1 – FTE Clean Water \$130,000 Coordinator for	per year 2024: The Lost Creek Stream Restoration at Mark Amig's property was completed on 7/19/2024. JCCD & PA Fish and Boat are also working to complete stream restoration on Bob Kratzer's property (just upstream of
3.3*	Help farmers and operators to be in compliance with state and federal requirements: Conservation and Nutrient Management Plans	Soil and Water Quality Conservation Plans (Ag E&S) 30,000-15,000 acres  Nutrient Management (Manure Management) 22,000 25,000 new acres of Core N and 16,200 30,000 new acres of Core P  Work with Act 38 operators (54), Preserved Farms (26), and certified organic farms to document plans already required by the respective program	PSU Extension, West Branch Association, Integrators (Bell and		2022-2025	Lack of DEP inspections.  Reporting and verification of Ag Plans, NRCS plans expire and do not get reverified, private plans are never entered.  Lack of technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans.  Act 38 and Preserved Farms not required to enter plans in PK, Recommendations to require programs to enter plans into PK  State agencies must work with integrators to require compliance by farmers. Some integrators require compliance, but not all, great way to communicate with farmers as well.		\$15 per ad	6 new MM plans, and conducted 5 status reviews on MM plans. Newly hired staff are working towards Nutrient Management certifications to increase capacity at for Technical Assistance.  of \$450,000  2023: New staffing at JCCD will expand plan compliance review.
3.4	Advanced Nutrient Management (4R) Practice Education and Implementation	Transition manure management plans to nutrient management plans and incentivize implementation  Increase reporting of supplemental nutrient management BMPs through existing programs and initiatives.  Increase existing 4R practice (N & P Rate, Placement and Timing by 6,000 scres per year)  Explore the idea of increasing pre-sides nitrogen testing (PSNT) or Chlorophyl testing to District program participants	Bureau, NRCS, Private Sector Agriculture Farm Visits, Juniata County PSU Extension, West Branch Association Crop Management		2022-2025	Landowner interest, BMP verification (annual).  Lack of Technical assistance to support agriculture planning and implementation.  Additional funding to support soil testing. Soil testing is key to meeting the recommendations of supplemental BMPs.  Machine dependent for most farming operations.  Cost of fertilizer is self-regulating farmers to use less fertilizer; therefore, lower rates are applied.	Educational support CBF grant	6 – additional Ag Planners to work with farmers to meet 4R standards  1 – agronomist  \$10 per ad advanced managem planning p total cost \$360,000	2023: HRG has worked with the counties on methods to integrate suppleme NM reporting into current workflows in the Chesapeake bay Contract, Nutrient Management Contract, current PSNT programs, and equipment rental programs. HRG also provided outreach at several events to increase adoption of 4R practices within the region.  2022: No progress at this time.  2022: No progress at this time.  2023: HRG has worked with the counties on methods to integrate suppleme NM reporting into current workflows in the Chesapeake bay Contract, Nutrient PSNT programs, and equipment rental programs. HRG also provided outreach at several events to increase adoption of 4R practices within the region.
3.5*	Implement Practice to improve soil health and sustainability (Tillage Management and Cover Crops)	Determine feasibility of having a county/state cost share program to enhance adoption of the annual practice  Implement tillage management and cover crops on an annual rate of 26,500-28,000 acres High Residue, 3,200 6,300 acres Conservation Tillage, 1,500 2,600 acres Low Residue, 8,300 21,000 acres of cover crops and 12,600 acres of cover crops with fall nutrients  Implementation challenges (continued): Organic farmers are using tillage to manage weeds and vertical tillage is becoming more popular among farmers, younger generation is "trying" tillage for experience	NRCS, Private Sector Agriculture Farm Visits, Juniata County PSU Extension, West Branch Association Crop Management	Countywide Ag Land	2022 – investigation 2023 – next steps	Capacity to manage the program, landowner interest  Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage  Current verification methods do not accurately capture implemented amounts – work with Capital RC&D to improve Transect Survey Routes  Farmers are harvesting cover crops for forage, need accurate efficiency crediting for commodity cover crops  Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter years	The state of the s	transition farmers to high residue  County JCCD – staff to administer the program \$747K for total of \$3 (incentive administra Capital RC reporting) \$50 per aconstructions	completed in 2024. The Soil Health Workgroup held two workshops.  2023: Ongoing through NRCS. Soil Health workgroup led by NRCS. Soil statio at Join Juniata-Snyder County Envirocamp. JCCD is interested in creating a Cover Crop program in County.  I per year ② a 5-year 2022: Ongoing through NRCS through their CSP program.  Soil Health Workshop planned for October of 2022. Soil health was highlighted at the Enviro-camp. Ongoing meetings with Soil Health Group which meets 3 times a year.  Through these efforts, willing landowners will be identified to implement the practices.  5-year total

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Action #	Description	Performance Target(s)	Green - action has been completed or Responsible Party(is) and	r is moving forward as planned Y Geographic Location	' <u>ellow</u> - action has encountered mir Expected Timeline	nor obstacles Red - action has not been taken or has encounter Potential Implementation Challenges or Recommendations	red a serious barrier Resources <u>Ava</u>	ailable	Resour	ces <u>Needed</u>	
			Partnerships				Technical	Financial	Technical	Financial	Annual Progress to Date
3.6	Implement more pasture management BMPs	Prescribed grazing – 3,200 acres  Off Stream Watering – 150 4,000 acres  Forest buffers on fenced pasture corridor – 20 acres  Grass buffers on fenced pasture corridor – 20 80 acres  Land Retirement to Ag Open Space – 170 400 Acres	JCCD, NRCS, Private Ag Consultants, CBF, Chesapeake Conservancy, Juniata County PSU Extension, West Branch Association	The state of the s	202	Landowner education, BMP funding for non-buffer work, plan updates, data gathering.  Lack of Technical assistance to support agriculture planning and implementation.  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.  Increasing construction costs are resulting in canceled NRCS contracts.	Landowner education		6 – additional Ag Planners to provide technical assistance and ag planning  3 – additional FTE environmental technician	\$780,000 per year  \$390,000 per year  Prescribed Grazing \$54 per acre 2 \$1.728M tot  Off stream Watering \$500 per acre 2 \$75K total  FB Buffer W/ Exclusion \$10,500 per acre 2 \$210K total  GB Buffer W/ Exclusion \$2,750 per acre 2 \$55K total  Land Retirement \$500 per acre 2 \$85K total	JCCD is discussing the potential to reactivate the Streambank Fencing Program. There is a concern for JCCD capacity to hit targets by 2025.
3.7*	Riparian buffer and re-forestation BMPs	320 riparian forest buffer acres, (260) acres lost since 2017 need reverified  100 150 riparian grass buffer acres – (25) acres lost since 2017 need reverified  25 acres – Agriculture Tree Planting  50 10 acres – urban forest buffer  1 2 acres – urban tree canopy  70 2 acres – urban forest planting	West Branch Association, PPL		2022 – line up landowners 2023-2025 – implementation	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.  Flash grazing must be allowed with buffer installation.  Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment.	Materials	be determined	6 – additional Ag Planners to provide technical assistance and ag planning 3 – additional FTE environmental technician	per acre 2 \$1.1M  Grass Buffer \$2,500 per acre 2 \$187,500  Tree Canopy \$5,500 per acre 2 \$5.5K	2024: JCCD Staff is planning to reach out to Riparian Rangers before the end of 2024 to help promote construction of new buffers. Newly planted riparian buffers were installed on 2 ACAP projects with 1 more buffer to be installed at a later date.  2023: Riparian Ranger workshop held in June 2023 to gain volunteers and interest.  0 2022: Applied for in 2022, 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.  Juniata County's Riparian Ranger Program has been up and running since June of 2021. The program helps to maintain existing forest buffers around the county with 5 volunteers.  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.
3.8	Wetland restoration implementation on marginal production ag land	18 acres of Wetland Restoration  Identify 1 large property owner from University of Vermont restorable wetland layer to help identify where wetland restoration is feasible	Chesapeake Conservancy, JCCD, NRCS, Private Sector Agriculture Farm Visits, Juniata Watershed Alliance	Countywide	2022 –2025	Willing landowner; appropriate siting, design, and construction for successful restoration result  Lack of technical assistance for landowner outreach and agriculture planning	Landowner outreach		3 – additional FTE environmental technician 2 – stream biologist	\$390,000 per year \$280,000 per year Wetland Restoration \$30,000 per acre 2	2024: HRG has been utilizing existing maps and outreach to determine potential locations for wetland restoration projects. From there HRG plans to develop a regional grant application for the SRBC Consumptive Use Grant.  2023: No progress to date.  2022: No progress at this time.
3.9	Stream Restoration (Urban and Agriculture)	11,000 5,000 Linear feet (~2 miles) Urban Stream Restoration  4,400 Linear feet (<1 mile) Agriculture Stream Restoration		Rapid delisting areas top priority & Countywide	2022 – 2025	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  Lack of funding to cover engineering design			Design, permit, construction service  2 – Municipal Engineers  3 – FTE Design, Engineering, Permit  2 – stream biologists	Assume urban s \$900/LF - \$9.9M Assume rural \$400/L -\$1.8M \$280,000 per year \$420,000 per year	2024: Two stream restoration projects were completed in July 2024 in the Lost Creek and Delaware Creek watersheds totaling 2,500 linear feet. Partners involved included WPC, PFBC, JCCD, HRG. Additional stream restoration projects are planned for 2025 on Lost Creek & East Licking Creek.  2023: East Licking Creek / Lion's Club Park project completed. Restored 2,550 linear feet of stream. Have 2 additional projects, one on Lost Creek and another in the upper reaches of East Licking Creek near Zook's Dam.  2022: Western Pennsylvania Conservancy applied to Growing Greener with an application titled South Central Pa Stream Restoration Partnership. The grant is designed to support stream restorations in Juniata County along with three other counties. In total the funding applied for was \$531.8 thousand.  Landowners have been identified, but waiting on implementation funding.

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			Green - action has been completed o	r is moving forward as planned	Vellow - action has encountered m	nor obstacles Red - action has not been taken or has encountered	ed a serious barrier			
Action #	Description	Performance Target(s)	Responsible Party(is) and	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available	Resc	urces <u>Needed</u>	T
	·	5 (7	Partnerships	J .	·	. 2.2				
							Technical F	ancial Technical	Financial	Annual Progress to Date (2021 to 2024)
3.1	Implement more barnyard runoff control/loafing lot management	0-125 acres of barnyard runoff control -see implementation challenge/CAST-model issue	JCCD, NRCS, Private Ag Consultants, CBF, Chesapeake Conservancy, Juniata	Countywide Farms	2022-2025	Lack of Technical assistance to support agriculture planning and implementation		6 – additional Ag Planners to provi		2024: JCCD partnered with NRCS on 3 projects to install barnyard runoff roofed heavy use areas.
		2 acres of loafing lot management	County PSU Extension, West Branch Association			Lack of funding to cover engineering design		technical assistar and ag planning	ce	2023: JCCD partnered with NRCS on 5 projects to install barnyard runoff
		31 acres of agricultural drainage management				Increasing construction costs are cancelling NRCS contracts		3 – FTE Design, Engineer, Permit	\$420,000 per year	roofed heavy use areas. Second round of contracts will add an additional projects (Fall 2030).
						O acres are currently available in CAST and is not accurate, need to address model limitations		3 – FTE Inspector construction Services	\$315,000 per year	2022: Phase 1 of BMP verification will identify where barnyard clusters a located and determine if they are livestock operations or poultry operations. CAST continues to limit the number of opportunities for this BMP. While reporting at 100% as previously reported in 2020. Due to the loss of 7 active BMP is below 100%, but will hit 100% if those 7 acres are reverified.
									Agriculture Stormwater Management \$10K per acre 2 \$310K	does not allow for the reporting of new acres.
3.11	Animal Waste Storage Systems	<del>2,000</del> 67,000 AUs of animal waste management systems	JCCD, NRCS, Private Ag Consultants,	Livestock & Poultry farms	2022-2025	Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value		6 – additional Ag	\$780,000 per year	2024: JCCD partnered with NRCS on 4 projects to install animal waste sto
		3,500 AUs of mortality composters	CBF, Chesapeake Conservancy, Juniata County PSU Extension, West Branch Association			for small farms; readiness to plan/implement projects when outreach efforts yield willing landowners	a farms a year	Planners to provi technical assistar and ag planning		systems. 2 have been completed as of August 2024 and 2 are planned to completed by the end of 2024.
		Current capacity through NRCS and JCCD implements about 5 farms projects per year				Lack of funding to cover engineering design		3 – FTE Design, Engineer, Permit	\$420,000 per year	2023: JCCD partnered with NRCS on 5 projects to install barnyard runoff roofed heavy use areas. Second round will add an additional 2 projects (2023)
								3 – FTE Inspector construction	\$315,000 per year	
								Services	Animal waste management syster	PracticeKeeper.
									\$175,000 per project assume 100 AUs per project \$3.5M in tot	ct, r
3.12*	Urban Stormwater Management Non- Regulated Communities	Implement existing ordinances and Catalogue existing BMPs that fit into this categor	ry JCPC, JCCD, developing municipalities, Keystone Council of Governments, Tri	County-wide	Ongoing	Coordination/ training for municipal staff, FieldDoc batch opportunity, non-MS4 engagement (what's in it for them?),	Reporting platform	5 Summer intern for reporting and		2024: No progress to date.
		Stormwater Treatment – 2 acres treated	County Regional Planning Commission		2022-2025	difficulty obtaining past information (MS4s typically have databases from 2003-present).		verification		2023: No progress to date.
		Wet Ponds and Wetlands – 73 0 acres treated						2 Municipal	¢290,000 por voar	2022: There aren't any MS4's in Juniata County. JCCD is attempting to m PSCM BMP's from NPDES permitted sites into PracticeKeeper - started d
		Dry Detention Ponds – 4-0 acres treated  Dry Extended Detention Ponds - 1 acre treated						2 – Municipal Engineers	\$280,000 per year	this in 2021, will attempt to keep doing this as projects are terminated as staff time permits.
		Impervious surface reduction - 1-0 acre						1 – municipal	\$130,000 per year	
								planner	\$160,000 for all	
									\$160,000 for all stormwater BMPs	

			Green - action has been completed or	is moving forward as planned	Yellow - action has encountered min	nor obstacles Red - action has not been taken or has encounted	red a serious barrier			
Action #	Description	Performance Target(s)	Responsible Party(is) and	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations			es <u>Needed</u>	
			Partnerships				Technical Financial	Technical	Financial	Annual Progress to Date
										(2021 to 2024)
3.13	Conservation Landscaping/Turf to Meadow Conversion	Promote new program and enable one large tract landowners' participation  70 10 acres of Conservation Landscaping	JCPC, DCNR, Chesapeake Conservancy, municipalities	Developed areas in County municipalities	2022 - 2025	Existing mowing ordinances and weed ordinances can be a	Planting plan assistance	1 – FTE Municipal	\$130,000 per year	2024: JCCD has been in contact with two different landowners interested lawn conversion projects. Both projects are still in the planning phase, wit estimated implementation date sometime in 2025.
						challenge to implementation.		Planner 3 – additional FTE	\$130,000 per year	2023: No progress to date.
								environmental technician	\$2,500 per acre meadow 2 \$175,000 budget for all	2022: No progress to date.
3.14*	Continue dirt and gravel road program	Dirt & Gravel Road Erosion & Sediment Control - Driving Surface Aggregate with Outlets - 25,000 LF (5 miles)  Continue to implement the program annually	JCCD	Countywide	2025	Continue D&G Road program funding.  Expand Dirt and Gravel Road Program to include farm lanes.	Education, technical assistance, project oversight  1 – technical staff administering the program  \$1.4 Million since 1998	1 – FTE Clean Water Coordinator for Conservation District	: Dirt and Gravel Roads \$40 per foot® TBD	2024: One Project was completed on Maze road totaling 3,300 feet with new cross pipes and 769 linear feet of underdrain. 5 Projects are in the wand planned to be completed in the coming years.  2023: 1 DGR project replaced double pipes on Lost Creek (North Ridge Rwith one 15.08 ft aluminum structural plate arch pipe. 4 LVR projects in process. 1st project (Cider Press Road, Beale Township) replaces an undersized driveway pipe and a larger cross pipe to help convey stormwato Markee Creek. Project length is 385 ft. Second project (Maze Road, Delaware Township, 3,300 ft) added 4 additional cross pipes, replaced 3 pipes, and installed 1,070 feet of underdrain to collect spring seeps. The project (Goldie Hollow Road, Greenwood Township, 6,985 ft) installed 6 French Mattresses (570 feet total) and 748 fee of underdrain to collect speeps and road base issues, added 2 new cross pipes, and proposes hydroseeding unstable banks. 4th project (Earnie's Road, Monroe Towns will add one cross pipe, replace 1 cross pipe, install 900 feet of underdrai additional off ROW work on 50 ft of driveway to divert water from flowing onto the road. Next round of applications is open and due Sept. 8, 2023.  2022: The D&G program has one project approximately 2/3 of a mile of driving surface aggregate being replaced in Fall of 2022. A stream crossin the Lost Creek Watershed is slated for Spring 2023 which will replace two pipes with a 14' single span structure.
3.15*	The state of the s	Educate local municipal leaders and PennDOT on the importance of keeping higher vegetation along roadways to prevent erosion and increase nutrient uptake.	Local Municipalities, DEP and PennDOT	Countywide	202	PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay Program will need to assist in the education of PennDOT.	re-		\$130,000 per year	2023: No progress to date.  2022: No progress to date.
3.16	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	Countywide	2022-2023	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known).		1 – FTE Conservation District Grant Manager	\$130,000per year	2024: JCCD partnered with Organic Valley to complete one ACAP project.  JCCD is also currently partnering with Land O' Lakes to complete another ACAP project.
						Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration.		<ul> <li>1 – FTE Planning</li> <li>Commission Grant</li> <li>Manager</li> <li>2 – staff accountants</li> </ul>	\$130,000 per year \$140,000 per year	2023: FFAR and Walton Family Foundation opportunities did not proceed progress to report from County-led activities.  The Alliance for the Chesapeake Bay has partnered and applied for NFWI Most Effective Basins for 3 projects in Juniata County. Should hear back of those grants in October 2023. Land O'Lakes also has a contract with at led one Dairy project that has partnered with NRCS.  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

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – JUNIATA COUNTY  Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier											
										Action #	Description
							Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
Priority Initia	tive 4: Research, Education, and Train	ning									
4.1	Develop new water quality monitoring data	Successful data input/acceptance by ALLARM and other environmental groups	ALLARM, Keystone Water Resources	Countywide	2	Data precision, QAQC, opportunity to educate landowners about	Watershed specialist		Volunteers for	N/A	2024: HRG and JCCD met with ALLARM with interest in starting a Stream
	into Chesapeake Data Explorer/ Chesapeake	program by end of 2025	Center, Juniata College, Juniata			local stream health and what they can do about it.			Water quality		Team to provide local water quality monitoring. This summer time was spent
	Monitoring Cooperative database		Watershed Alliance			Currently no groups doing water quality monitoring.			monitoring		to develop stronger relationships with local watershed groups. ALLARM plans to provide a presentation about the program in the fall.
						Currently no groups doing water quality monitoring.			New monitoring	\$10,000	to provide a presentation about the program in the fail.
									equipment	710,000	2023: Capacity changes with the Coordinator and Conservation Districts has
											pushed the convening of the Watershed Specialists. We will reevaluate in
									1 – watershed	\$130,000 per year	2024 if this should be a priority at the County level or if it should be scaled to
									specialist		the State or Federal level.
									3 – additional FTE	\$130,000 per year	2022: In the fall of 2022, HRG will convene the Watershed Specialist to
									environmental	, ,	identify the largest "gaps" of water quality monitoring data, develop strategies
									technician		to comprehensively incorporate new data to support CAP efforts.
									2 – stream		ALLARM is in the process of developing citizen scientist monitoring data
										ne \$280,000 per year	collection protocols to assist with stream health data collection. Should the
									ntal scientist	, ,	protocol be approved, it will be shared with all Counties.
4.2	Supporting Juniata Watershed Alliance for	Continue to grow the Juniata Watershed Alliance to encompass additional members	Juniata Watershed Alliance	Juniata Watershed Alliance –	Ongoing		Social media shares			er \$130,000 per year	2024: JWA has taken a halt with the introduction of new watershed staff. Nick
		and ensure the Watershed Alliance can maintain 501(c)3 status. Work with the		countywide		organizations to be successful and support with implementation			Coordinator for		is interested in working with JWA on future projects and plans to hold an
	sustainability aligning with their goals	Alliance to support with outreach, engagement, new project identification and implementation				Juniata Watershed Alliance only has 6-8 members and current	Project development suppor	π	Planning Commission		outreach meeting/event in the coming future.
		implementation				scope may be too large. Need to redefine focus and look at			Commission		2023: JWA is actively working with JCCD on many outreach events, Riparian
						establishment of new watershed groups.			1 – FTE Clean		Rangers, Canal House Cleanup (stream side and Riparian Corridor), and will be
						3 Table 2 Tabl				list \$130,000 per year	
						Maintaining 501(c)3 status can be challenging.					
											2022: JWA is actively working with JCCD. There are many outreach events,
										\$5,000 per	riparian installations, and participation in the Riparian Rangers.
										organization to produce promotion	22
										materials (hats, shi	
										stickers) for member	
										2 \$5,000 per year	