

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

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 Partnerships | Geographic Location | Expected Timeline | Potential Implementation Challenges or Recommendations | Resources Available | | | Resources Needed | | | Review Checklist Comments | | |
|---|---|--|---|-------------------------------|-------------------|--|---|------------------------------------|-----------|------------------|---|--|--|--|------------------|
| | | | | | | | Technical | Source | Financial | Source | Technical | Suggested Source | | Financial | Suggested Source |
| Priority Initiative 1: Agriculture | | | | | | | | | | | | | | | |
| 1.1 | Nutrient Management Planning | Assist producers in obtaining nutrient management planning (including soil samples, manure analysis, and agronomy assistance). BMP's include Nutrient Management Core N, Core P, Timing, Placement, and Rate <u>20 operations per year</u> | LCD, NRCS, Consultant | Agricultural production lands | 2022-2025 | Funding and Producer Participation | Producers must hire consultants themselves or receiving a minimal amount of assistance through local agencies | NRCS, Consultants, LCD | EQIP | US Farm Bill | Contracted Source | Private Consultant willing to complete testing and recommendations for farmers in the county | Dedicated funding to assist in this program | Grants or State Agency funding \$15 per soil sample kit \$40 per manure testing kit \$45,000 per year | |
| 1.2* | Reporting and Verification of Existing BMPs | Collect data and verify existing BMPs on operations <u>50 operations per year</u> | DEP, LCD, NRCS | County | 2021-2025 | Time Capacity, Data Entry, Release of Records, producer participation and resistance | BMPs and plans that were funded through agencies and grants are already known | SCC, PSU Extension, NRCS, LCD, DEP | | | Dedicated staff or contracted staff to compile existing data and complete outreach (e.g., producer survey, records) | LCD outreach staff member, Luzerne County CAP Coordinator | Dedicated and sustainable funding to this position | State funds \$80,000 per year for staffing | |

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| | | | | | | | | | | | research) and data entry | | | | |
| 1.3 | Existing BMP Maintenance Program | Assist producers with education and resources for maintenance of existing BMPs to keep them functioning <u>10 operations per year</u> | LCD, NRCS, PSU Extension | County | 2022-2025 | Funding and Producer participation | Technical specs of BMPs and guidance for BMP maintenance | NRCS, LCD, PSU Extension, Consultants , SCC | | | Compile existing BMP designs, O&M specs and guidance, and review with producers | NRCS, LCD (Ag Program. Staff and additional outreach staff member) | Dedicated and sustainable funding for staff time and funding to assist landowners with costly repairs/maintenance needs | State & Federal grant funds for O&M \$150,000 per year | |
| 1.4* | Riparian Buffer and Stream Fencing | Implement Stream fencing and riparian buffer on crop and pasture lands <u>200 acres per year implemented and verified</u> BMP's include forested riparian buffer with exclusion fencing | LCD, NRCS, DEP | Streams located along crop and pasture lands, targeting impaired watersheds | 2021-2025 | Funding and Producer participation/willingness to enter into long-term agreements | Development of planting specs, coordinating projects with landowners | LCD, NRCS, DEP, Consultants , SCC | Existing grant programs | CBF K-10, DCNR, DEP Stream Bank Fencing Program, FSA CREP | Additional outreach to landowner & coordination/design of buffer projects | LCD Watershed Specialist, Ag Program Staff, & additional outreach staff member | Dedicated and sustainable funding source for district staff positions & implementation of buffer projects | State (DEP, PDA, Growing Greener, CBP block grant) and Federal Funding (EQIP) \$120 per tree (includes tree, planting, maintenance, and survivability warranty) \$4 linear foot for fencing \$250,000 per year | |
| 1.5 | Manure to Mine Lands Program | Evaluate availability of excess manure and potential opportunities to treat abandoned mine lands. | EPCAMR, LCD, Earth Conservancy, DEP BAMR | County | 2022-2025 | Farmer and Landowner Participation, extensive coordination effort, BAMR's modification of | Historic programs | NRCS, EPCAMR | N/A | N/A | Feasibility study, Develop/coordinate program | EPCAMR, LCD | Dedicated and sustainable funding source for staff position(s) | DEP BAMR funds, DCED Abandoned Mine Drainage and Treatment Program (AMDATP) | |

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| | | <u>1 Feasibility study</u> | | | | existing reclamation practices, Availability of excess manure | | | | | | | | \$50,000 for feasibility study | |
| 1.6* | Wetland Creation/Enhancement on Farmlands | Create/enhance wetlands on agricultural lands that are less productive or within environmentally sensitive areas. <u>2 acres per year</u> | LCD, NRCS | County – key environmentally important areas | 2022-2025 | Landowner Participation, permitting hurdles | Design assistance | LCD, NRCS, Wildlife organizations (e.g. DU), DEP, ACOE | Grants | NFWF | Design assistance, landowner outreach, and project design/permitting | LCD Watershed Specialist, Ag Program Staff, & additional outreach staff member | Dedicated and sustainable funding source for district staff positions & implementation of projects | Local, State, Federal, and private funding \$100,000 per year | |
| 1.7 | Soil Health Improvement | Implement soil health practices, (including no-till planting, cover crops, use of pollinator species, etc.) on agricultural lands. <u>500 acres per year, increasing by 25% yearly</u> | LCD, NRCS | Countywide agricultural operations | 2022-2025 | Funding and Producer participation | Existing soil health technical guidance | NRCS, PSU Extension, LCD | Existing grant programs | NRCS, LCD (Soil Health GG Grant) | Additional outreach to landowners & coordination of projects | LCD Ag Program Staff & additional outreach staff member | Dedicated and sustainable funding source for district staff positions & implementation of projects | State & Federal grant funds \$150,000 per year | |
| 1.8* | Barnyard Agricultural BMP Implementation | Continuation of LCD's & NRCS's efforts to stabilize animal feeding and travel areas and to manage manure on existing agricultural operations. <u>Complete 5 projects per year in addition to existing NRCS and County project implementations.</u> | LCD, NRCS | Countywide agricultural operations | 2022-2025 | Funding and Producer participation/financial capabilities, technical designer availability | Project coordination & design | LCD, NRCS, PACD | Existing grant programs | NRCS, DEP Growing Greener, DEP Section 319 Program | Additional outreach to landowner, coordination of projects, project design | LCD Ag Program Staff & PACD TAG Staff | Dedicated and sustainable funding source for district staff positions & implementation of projects | DEP Growing Greener Program, CB Program, PACD/NRCS Funding Agreements, EQIP \$800,000 per year | |

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Each county-based local area will use this template to identify:

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.
3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the “who, what, where, when and how” of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items through outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description).