TETRA TECH

Chesapeake Bay BMP Cost and Efficiency Updates

Presentation to the Watershed Technical Workgroup



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BMP Cost and Efficiency Updates

PRIORITY

Update BMP cost profile data for the full suite of CAST BMPs

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Identify any new pollutant removal efficiencies

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BMP Cost Updates

- BMP cost profile data for the full suite of CAST BMPs (about 300 BMPs)
- Considerations include:
  - design
  - permitting
  - lifespan
  - capital cost/installation
  - operations and maintenance
  - opportunity cost
  - changing environmental conditions
- Provide more region-specific cost estimates for BMP implementation

Forestry BMP Costs - 2018

Forestry BMP	Lifespan	Capital Cost ($/acre implemented)	O&M Cost ($/acre/year)	Opportunity Cost ($/acre converted)
Forest harvesting practices	1	$56	NA	NA
Tree planting (ag)	40	$1,100	$16.50	$1,446
Forest buffers (ag)	40	$2,900	$58	$1,446
FB on fenced pasture (ag)	30	$5,569	$191	$557
Tree planting (urban)	40	$1,101	$17	$0
Forest planting (urban)	28	$518	$7.77	NA
Forest buffers (urban)	40	$3,062	$0	$0

BMP Efficiency Updates

- Will include a literature review of CAST BMPs to determine if new or updated pollutant removal efficiency information is available
- Changing environmental conditions will be considered
- Will provide a dataset of new pollutant removal efficiency studies where available
- New information will be brought to the Partnership for update consideration

BMP Cost and Efficiency Updates

PHASE I

- **BMP Literature Collection**
- Now – December 2026
- Assessment of the information currently being used
- Outreach to workgroups and other parties that provided input in the past and/or that will need to approve the update
- ***Exploration of new available literature***

PHASE II

- **Literature Review**
- January – July 2027
- Full literature review and analysis
- Discussions with and approvals by appropriate workgroups and other parties
- Preparation of a database and documentation

Workgroup asks…

- What are your priority BMPs?
- Do you have any cost data you can share? Post-2018
- Do you have any recent BMP nutrient and sediment efficiency data you can share? These dates vary.
- Peer reviewed literature, reports, white papers, databases, etc.
- Send info to eugenia.hart@tetratech.com

