GIT Funding Summary

NOVEMBER 18TH, 2016

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FY14 HWGIT Funding Projects

Identification of Additional Healthy Watersheds in West Virginia

- This project expanded a watershed assessment pilot project into the Chesapeake Bay Watershed portion of West Virginia
- Created a more robust Healthy Watersheds dataset was that can be used to expand West Virginia's identified healthy waters and watersheds.

Demonstrating the Value of Retaining Forestland in the Chesapeake Bay Watershed Phase I

- Assessed growth trends in the Rappahannock River Basin region, evaluated the spatial variability of forest ecosystem service value by simulating the loading impact of alternative development scenarios, and compared the cost of additional urban BMP implementation to show the value of a forestland retention BMP in the TMDL model

FY15 HWGIT Funding Projects

Demonstrating the Value of Retaining Forestland in the Chesapeake Bay Watershed Phase II

- Uses findings from Phase I
- Negotiate with local officials to implement land use policies and decisions that retain forestland in healthy watersheds
- Includes the creation of a toolbox incentive that can be used to stimulate forestland retention throughout the watershed

Evaluation of Land Use Policy Options, Incentives, and Planning Tools to Reduce the Rate of Conversion of Agricultural Lands, Forests, and Wetlands

- Comprehensive study to implement one of the Management Strategy tasks in the Land Use Options Evaluation Management Strategy
  - "determine the spectrum of existing policy options, incentives and planning tools currently being implemented at the local and state level"

FY16 HWGIT Funding Projects

Back Creek Watershed Demo – Getting Water Off of the Road

- Back Creek is a highly rural watershed and contains many miles of dirt and gravel roads in regular need of maintenance and could threaten the watershed.
- Grade breaks and cross pipes will be installed along a gravel road to reduce erosion and sediment runoff. Throughout the process, a training demonstration will be conducted and offered to a broad audience in order to facilitate continued erosion and sediment runoff control.
- A brochure on best practices will be created so other organizations can duplicate the project.

Methodology for Developing High-Resolution Stream and Waterbody Datasets for the Chesapeake Bay Watershed

- Spatially accurate stream maps are necessary for defining the streams that have been or could be restored to achieve habitat and water quality outcomes.
- This project will investigate and evaluate existing and novel methods for deriving streams from LiDAR imagery and recommend a mapping approach that is customized by physiographic province and meets the management needs of the CBP Partners for tracking riparian forest buffers, monitoring stream health, assessing habitat for brook trout, and modeling hydrology and sediment.

FY 2014	THEME MS Topic / Gap / Action
TNC Study: Healthy Watersheds in West Virginia	Management Approach #1: Tracking, Inventory of healthy watersheds Gap: Lack of **information for assessing health** as opposed to degradation (p. 6)
Rappahannock Demonstration of the value of forestland retention (phase 1)	Crediting Conservation (p. 14) Management Approach #1: Tracking, Prioritize for protection

FY 2015	THEME MS Topic / Gap / Action
Rappahannock Demonstration of the value of forestland retention (phase 2)	Management Approach #2: Local leadership: Local commitment and capacity to protect healthy watersheds (key action) Identify tools that may be used by locals to protect healthy watersheds
Evaluation of Land Use Policy Options, Incentives, and Planning Tools to Reduce the Rate of Conversion of Agricultural Lands, Forests, and Wetlands	Local leadership: Local commitment and capacity to protect healthy watersheds (key action) Identify tools that may be used by locals to protect healthy watersheds

FY 2016	THEME MS Topic / Gap / Action
Back Creek Watershed Demo – Getting Water Off of the Road Project aimed at addressing transportation infrastructure in a rural healthy watershed, while also educating, engaging and involving the local community within a healthy watershed.	Factors Influencing Success: 2. Federal, State and Local Regulatory Framework: “Increasing urban development, including transportation infrastructure is the most significant influence on watershed health through changing land use and other modifications.”
Methodology for Developing High-Resolution Stream and Waterbody Datasets for the Chesapeake Bay Watershed (Land Use workgroup – Land Use Methods and Metrics Outcome)	Management Approach 1: Tracking: Related to watershed health and assessment information.

Future GIT Funding – Brainstorming Session

Summary of present and past GIT funding

- Management Approach #1 Tracking (3 projects)
- Management Approach #2 Local Leadership (2 projects)
- Cross cutting pilot project related to local engagement (1 project)

Gaps – Brainstorming ideas "Seeds"

- Vulnerability
  - Several studies, projects and datasets were identified in the work plan (Climate resiliency, Land Change Model, Review and incorporate findings of various studies, as well as individual state based studies related to vulnerability (MD).
- Tracking
  - Maintain and Expand assessment activities