



US Army Corps of Engineers

Institute for Water Resources

BUILDING STRONG®

Multi-metrics for budget (2013)

Status: **Project Manager:**

In Progress [Paul Wagner](#)

Purpose: The purpose of the multimetric project is to develop metrics for indicating environmental and social benefits to complement economic benefits. .

Objective: 1. Complete implementation guidance for applying the Biodiversity Security Index in the context of the Corps project planning process. a. Complete "protocol" for calibrating the risk term of the BSI b. Complete directions for enumerating the number of viable populations c. Complete directions for cost effectiveness and incremental cost analysis d. Complete step by step guidance for use in the project planning process.

2. Assess the inclusion of information on socially vulnerable populations in WIDT a. Determine how/if SOVI can contribute to WIDT b. Protocol for technical input from SOVI to WIDT

Benefits: Better informed project planning and budgeting process.

Develop multi-metric budgeting criteria for ecosystem restoration and economic development projects.

Progress: Two technical reports have been completed. Three more are in review and will be completed. All five are to be published through ERDC, but no funding exists to complete the publications, which is an aspect of the 2013 PMP. A journal publication also has been nearly completed for submittal.

Considerable progress has been made in developing guidance specifically for BSI use in incremental cost analysis and in managing risks during plan formulation.

Steps have been initiated to involve the National Wildlife Federation and the Nature Conservancy in vetting of the BSI.

Completion of the risk management guide for plan formulation is part of anticipated 2013 work. In addition, a draft guide for using the BSI in each of the planning steps will incorporate the risk management and incremental cost guides in a complete document that will address all planning steps.

Products:

- *The Biodiversity Security Index: A New Metric for Benefits from USACE Ecosystem Restoration Projects*
 - *Concept Acceptability of Non-monetary Environmental Benefits Metrics for Ecosystem Restoration Projects Planned By the US Army Corps of Engineers*
 - *Case Study Application of the Biodiversity Security Index to Ranking Feasibility Studies for Ecosystem Restoration Projects of the U. S. Army Corps of Engineers*
 - *Application of the Biodiversity Security Index in Army Corps of Engineers Ecosystem Restoration Planning (interim)*
-

**Related
Links:****Partners:**
