



RESERVOIR SEDIMENTATION

U.S. Army Corps of Engineers (USACE) adaptation pilots identified altered reservoir sedimentation rates resulting from a changing climate and land use change as a critical area for agency missions and operations. Evaluating reservoir vulnerabilities to changes in sedimentation rates is critical to the long-term management and reliable performance of reservoirs. This project's objective is to enhance reservoir storage information and improve climate preparedness and resilience at USACE reservoirs.



WE'VE MADE PROGRESS

CONNECTED CENTRALIZED RESERVOIR SEDIMENT DATABASE that contains reservoir sediment surveys and associated information with three other databases (National Inventory of Dams, Corps Water Management System, and Drought Information Portal) to leverage existing information and maximize knowledge of data related to reservoir sedimentation and associated impacts.

CREATED WEB-ACCESSIBLE BUSINESS INTELLIGENCE dashboards allowing users to analyze and visualize data, including overview information on reservoir sediment status and volume loss by reservoir zone.

SUPPORTED INTERAGENCY RESSED DATABASE by enabling bulk loading of USACE reservoir sedimentation data into the US Geological Survey (USGS) operated interagency Reservoir Sedimentation Database (RESSED).

CURRENT DATA COLLECTION EFFORTS have been assessed at five districts to determine the quality and availability of reservoir sedimentation data throughout USACE and to assess data gaps.



MOVING FORWARD

DEVELOPING BASELINE REPORT on USACE reservoir sedimentation status and projected climate change impacts to reservoirs.

PRODUCING RESERVOIR SEDIMENTATION INDICATORS of future sedimentation rates and how they are changing with observed and projected climate changes for use in Watershed Screening Level Climate Vulnerability Analysis Tool.

EXPANDING database to incorporate Bureau of Reclamation data starting in FY16 as part of the multi-agency Project Development Team. The data will be used to explore correlations for climate indicators. This provides a more complete view of reservoir sustainability in systems where both agencies operate.

ESTABLISHING SUB-TEAMS to perform quality control on reservoir sediment data and review new and emerging sediment survey techniques.

MAKING reservoir sediment information available to additional Federal partners for expanded visibility.

