

STREAMSTATS--A WEB-BASED TOOL FOR ESTIMATION OF STREAMFLOW CHARACTERISTICS IN GEORGIA

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Abstract. StreamStats is a Web-based Geographic Information System (GIS) application that was developed by the U.S. Geological Survey (USGS) in cooperation with Environmental Systems Research Institute, Inc. (ESRI) to provide access to an assortment of analytical tools that are useful for water-resources planning and management. StreamStats allows users to easily obtain streamflow statistics, basin characteristics, and descriptive information for USGS data-collection sites and selected ungaged sites. StreamStats also allows users to identify stream reaches upstream and downstream from user-selected sites and obtain information for locations along streams where activities occur that can affect streamflow conditions. This functionality can be accessed through a map-based interface with the user's Web browser or through individual functions requested remotely through other Web applications. StreamStats is designed so that each state is implemented as a separate application, with a reliance on local partnerships to fund the individual applications. The USGS in cooperation with the Georgia Department of Transportation and Georgia Environmental Protection Division is currently in the process of implementing StreamStats for the State of Georgia..