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Status Update on the USGS StreamStats Web Application

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ABSTRACT

The ability to estimate streamflow statistics is important for water management, environmental protection, hazard mitigation, and other hydrologic applications. StreamStats is a partnership between the U.S. Geological Survey (USGS) and the Environmental Systems Research Institute (ESRI) to develop an online application that links USGS digital map data, streamflow statistics, and regression equations with ESRI's ArcHydro. tools . The application delineates the drainage basin above a user-selected point on a stream, calculates the basin characteristics (such as area, slope, elevation, and precipitation), and applies USGS regression equations to those characteristics to estimate a variety of low, mean, and peak streamflow statistics. StreamStats implementation involves extensive development of geospatial data sets, the application of existing regression equations, and, frequently, the development of new regression equations. Implementation is proceeding on a state-by-state basis. Development efforts are underway in more than half of all states. This session presents a description of StreamStats functionality and an update of the current implementation status.

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