



## **NOAA Atlas 14; the new precipitation frequency atlas of the United States**

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The rainfall frequency atlases and technical papers published by the National Oceanic and Atmospheric Administration's (NOAA) National Weather Service (NWS) serve as de-facto national standards for rainfall intensity at specified frequencies and durations in the United States. The previous standards were published between 1961 and 1973. The NWS has published updates to the standards as NOAA Atlas 14 for the semiarid southwest (Volume 1) and the Ohio River basin and surrounding states (Volume 2), and is working on updates to Hawaii, Puerto Rico, and the U.S. Virgin Islands. The Hydrometeorological Design Studies Center located within the NWS Office of Hydrologic Development is responsible for the updates. This poster paper provides an overview of the recent updates demonstrating technology and data improvements including: use of significantly longer data records than were available in the 1960/70s emphasizing data quality control and consistency, use of a regional L-moments analysis technique, a spatial interpolation-based mapping procedure using a statistical-geographic approach, and web-based delivery of the final product.