

DOWNLOAD PDF AUGUST MEDIAN STREAMFLOWS IN MASSACHUSETTS

Chapter 1 : August median streamflows in Massachusetts: Kernell G. Ries: racedaydvl.com: Books

the unregulated August median streamflow for any Massachusetts stream. This report describes a study done by the U.S. Geological Survey (USGS), in cooperation with the MDEM and MDEP, to better define August median streamflows in Massachusetts.

Geological Survey, who have developed a user-friendly streamflow-estimating system called "StreamStats. A pilot project has been completed in Massachusetts. They need only to select a site on a stream to get estimates of streamflow statistics", said USGS hydrologist Kernell Ries, the principal investigator. The estimating method and the web page are described in a report and a fact sheet that have been recently released. Federal, state, and local agencies need streamflow statistics for such activities as 1 developing environmentally sound river basin management plans, 2 siting and permitting of new water withdrawals, interbasin transfers, and discharges of pollutants, 3 determining the streamflow needs of aquatic plants and animals, 4 designing structures such as bridges, culverts, spillways or floodwalls, 5 land-use planning and 6 developing flood insurance rate maps. Municipalities and other groups also need streamflow statistics for the design and management of water supplies, waste discharges, and power generation. Also, Streamstats allows us to determine how much industrial waste a given river or stream can handle. One of the equations can be used to estimate the 7-day, year low flow -- a statistic used by the U. Environmental Protection Agency and State agencies for permitting of pollutant discharges. Another equation estimates the August median flow, which is used by the U. Fish and Wildlife Service in New England as the minimum flow needed to protect aquatic animals and plants. At present, this website only provides low-flow statistics, but work is underway to incorporate flood statistics as well. At the web site, users are shown a map of Massachusetts with town boundaries and locations of USGS data-collection sites. Users can zoom in on areas of interest and add more information to the map, such as roads, and streams, and images of USGS topographic maps. Users can select the location of a data-collection site to get streamflow statistics for the site from a database or they can select any site on a stream to automatically get estimated streamflow statistics and prediction intervals that indicate the accuracy of the estimates for the site they selected. This website is an example of future enhancements to the USGS mission of providing streamflow information to the nation. The report describes methods for estimating streamflow statistics for data-collection sites as well as for sites where no data are available. Ries III, and P. Friesz, is published as U. It also contains estimated streamflow statistics, drainage-basin characteristics, measured streamflows, and information on the locations of sites in or near Massachusetts. All projects must have been in the design or construction phase over the last 18 months.

Chapter 2 : USGS Develops Faster Method for Estimating Streamflows | Water & Wastes Digest

Description iv, 27 p.:ill., maps ;28 cm. Part or all of this report is presented in Portable Document Format (PDF). For best results viewing and printing PDF documents, it is recommended that you download the documents to your computer and open them with Adobe Reader. PDF documents opened from your.

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August median streamflows in Massachusetts / by Kernell G. Ries III ; prepared in cooperation with the Massachusetts Department of Environmental Management, Office of Water Resources, and the Massachusetts Department of Environmental Protection, Office of Watershed Management.

Chapter 6 : USGS Current Conditions for Massachusetts_ Streamflow

June and August Median Streamflows Estimated for Ungaged Streams in Southern Maine By Pamela J. Lombard Prepared in cooperation with the Maine Department of Environmental Protection.

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By Kernell G. Ries, Geological Survey (U.S.), Massachusetts. Dept. of Environmental Protection. Office of Watershed Management. and Massachusetts. Office of Water.

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Streamflows for selected flow durations from 1 to 99 percent and the August median streamflows were estimated for 11 long-term streamflow-gaging stations in and near the study area.