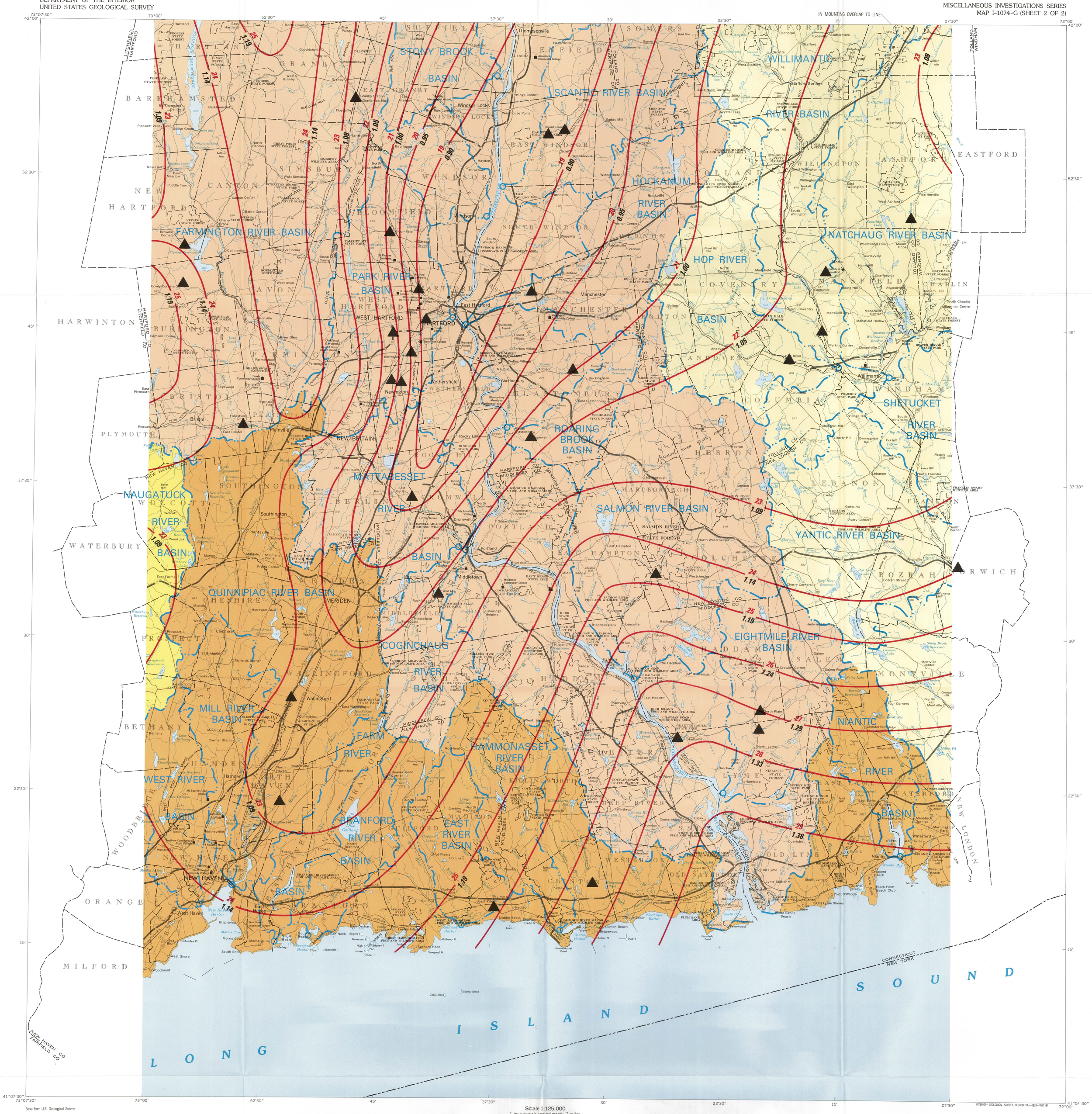


Base from U.S. Geological Survey

Scale 1:125,000
1 inch equals approximately 2 miles

5 4 3 2 1 0 5 MILES

5 4 3 2 1 0 5 10 KILOMETERS

DATUM IS MEAN SEA LEVEL

EXPLANATION

This map shows the areas within the Connecticut Valley Urban Area that are drained by major stream systems, the boundaries of large drainage basins and the distribution of mean annual runoff. This information is intended to be of use to the planner and water-resources manager at the regional level. Measurements of drainage area and detailed drainage-area delineations are contained in the published maps and reports of the U.S. Geological Survey and in the files of the U.S. Geological Survey offices at Hartford, Connecticut, and Boston, Massachusetts.

Runoff is that part of precipitation that appears in surface streams as streamflow. It consists of both surface runoff and ground water runoff and varies from place to place and with time. The mean annual runoff is a measure of the total quantity of water available over a relatively long period of time.

AREA DRAINED BY THE CONNECTICUT RIVER AND ITS TRIBUTARIES

AREA DRAINED BY STREAMS TRIBUTARY TO THE THAMES RIVER

AREA DRAINED BY STREAMS TRIBUTARY TO THE HOUSATONIC RIVER

AREA DRAINED BY SMALLER COASTAL STREAMS

BASIN BOUNDARIES (SURFACE WATER)—Names of selected basins with drainage areas larger than 25 square miles are shown on the map. Some of the delineated drainage basins are located entirely within the Connecticut Valley Urban Area while others are partly outside the area.

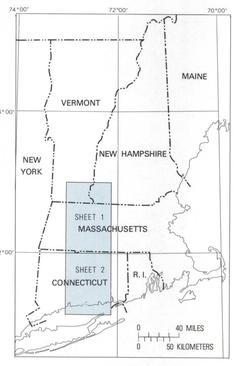
MOUTH OF DRAINAGE BASIN

26
1.24

LINE OF EQUAL MEAN ANNUAL RUNOFF, 1941–70 WATER YEARS, IN INCHES (UPPER NUMBER) AND MILLIONS OF GALLONS PER DAY PER SQUARE MILE (LOWER NUMBER). INTERVAL 1 INCH[1]—Mean annual runoff for any site on a stream is not the value shown at the site but is the weighted average for the upstream drainage area as expressed by the lines of equal runoff.

CONTINUOUS-RECORD STREAM-GAGING STATION—The distribution of mean-annual runoff shown on the map is based on streamflow data collected at these sites.

[1]1 inch of runoff equals 0.0476 million gallons per day per square mile.



CONNECTICUT VALLEY URBAN STUDY AREA

MEAN ANNUAL RUNOFF AND MAJOR DRAINAGE BASINS IN THE CONNECTICUT VALLEY URBAN AREA, CENTRAL NEW ENGLAND

By
R. A. BRACKLEY AND M. P. THOMAS

1978

For sale by Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202