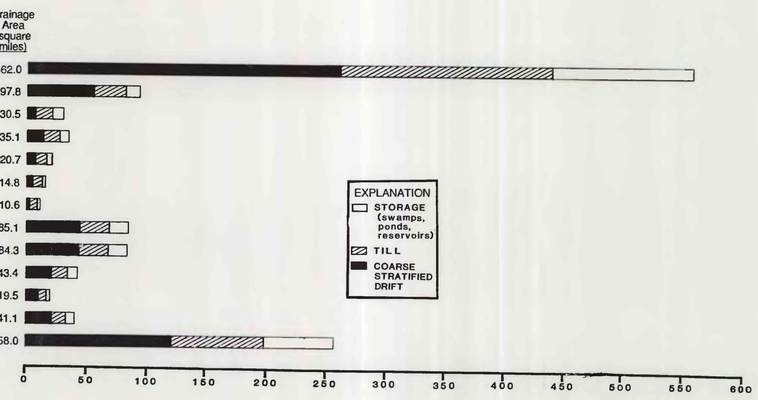
PREPARED IN COOPERATION WITH THE
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



| Subbasin Code | Subbasin | Site Location | Urban Area (percent) | Stream Slope (feet/mile) | Stream Length (miles) | Drainage Area (square miles) |
|---|---|---|---|---|---|---|
| 1201 | Taunton River* | Mouth (Interstate Route 195) | 17.8 | | 60.4 | 562.0 |
| -- | Intervening Area | -- | 23.0 | -- | -- | 97.8 |
| 1202 | Quequechan River | Mouth | 24.7 | 0.0 | 9.0 | 30.5 |
| 1203 | Assonet River | Mouth | 2.9 | 5.8 | 11.5 | 35.1 |
| 1204 | Assonet River | Locust Street, Assonet, MA | 1.9 | 4.4 | 7.7 | 20.7 |
| 1205 | Segregansett River | Mouth | 5.0 | 11.5 | 9.9 | 14.8 |
| 1206 | Segregansett River | near Dighton, MA | 5.4 | 10.2 | 6.9 | 10.6 |
| 1207 | Threemile River | Mouth | 18.0 | 8.8 | 30.4 | 85.1 |
| 1208 | Threemile River | North Dighton, MA | 17.8 | 6.9 | 29.0 | 84.3 |
| 1209 | Wading River | near Norton, MA | 15.3 | 13.1 | 17.4 | 43.4 |
| 1210 | Wading River | West Mansfield, MA | 16.7 | 18.6 | 9.0 | 19.5 |
| 1211 | Mill River | Whittenton Street, Whittenton, MA | 8.0 | 8.6 | 21.3 | 41.1 |
| 1212 | Taunton River | State Farm, near Bridgewater, MA | 19.3 | 3.7 | 30.8 | 258.0 |

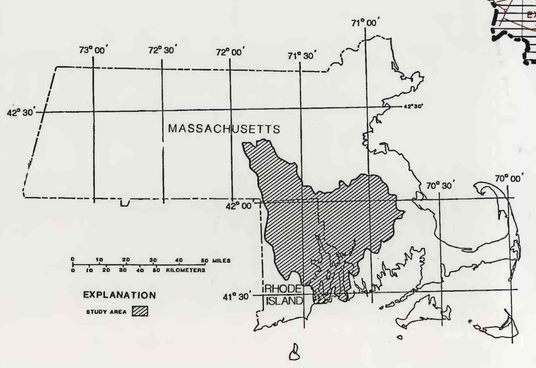



* Major river basins are listed in order of drainage area size. The drainage area, stream length, and areas of surfical features listed for each subbasin are inclusive of upstream or tributary subbasins with names indented below it. The site locations listed are the lowest downstream points in the subbasin.

--Data not available or not applicable. Stream slopes and stream lengths for the intervening area in the Taunton River basin and ungaged subbasin 0601 are not available because these areas are composed from several small subbasins.

Base from U.S. Geological Survey Maps:
Boston SE (Provincetown) 1:100,000
Boston SW (Boston) 1:100,000
Providence NE (New Bedford) 1:100,000
Providence NW (Providence) 1:100,000
Providence SW (Block Island) 1:100,000

INDEX MAP OF MASSACHUSETTS AND RHODE ISLAND




EXPLANATION

Data-collection network for the study period (1987 water year)

- Area from which runoff was measured at a gaging station
- Area from which runoff was measured at a partial-record station
- Ungaged area - no data collected
- NARRAGANSETT BAY BASIN BOUNDARY
- MAJOR RIVER BASIN BOUNDARY
- SUBBASIN BOUNDARY
- 0601 SUBBASIN CODE
- ▲ 01117000 U. S. GEOLOGICAL SURVEY GAGING STATION AND IDENTIFICATION NUMBER stream stage recorded continuously
- △ 01106000 U. S. GEOLOGICAL SURVEY PARTIAL-RECORD STATION AND IDENTIFICATION NUMBER streamflow measured at least once monthly

NATIONAL WEATHER SERVICE WEATHER STATION

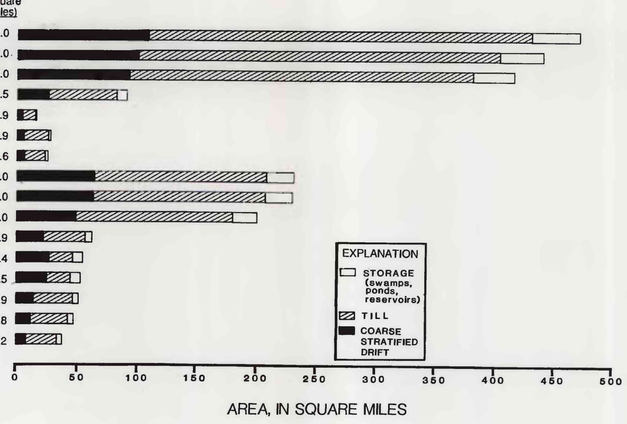
- Precipitation, Evaporation, Temperature
- Precipitation, Temperature
- Precipitation

Scale 1:125,000

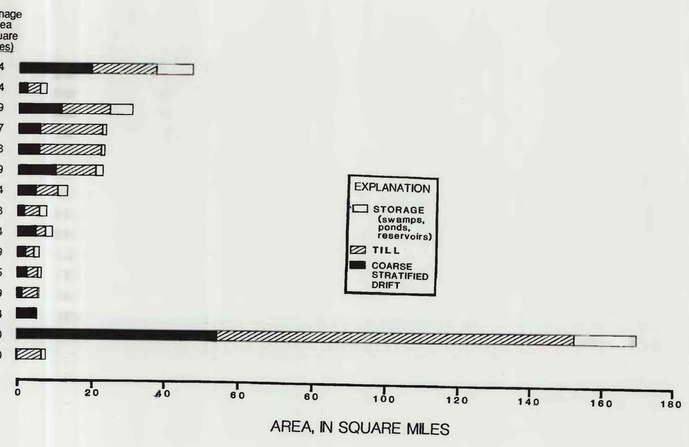
5 0 5 10 MILES
5 0 5 10 KILOMETERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

| Subbasin Code | Subbasin | Site Location | Urban Area (percent) | Stream Slope (feet/mile) | Stream Length (miles) | Drainage Area (square miles) |
|---|---|---|---|---|---|---|
| 0301 | Blackstone River | Mouth (Old Slater Mill dam) | 20.3 | 10.0 | 52.5 | 472.0 |
| 0302 | Blackstone River | Lonsdale, RI | 20.2 | 10.5 | 58.9 | 441.0 |
| 0303 | Blackstone River | Woonsocket, RI | 19.3 | 14.0 | 49.5 | 416.0 |
| 0304 | Branch River | Forestdale, RI | 5.5 | 23.6 | 18.1 | 91.5 |
| 0305 | Nipmuc River | near Harrisville, RI | 1.3 | 35.1 | 7.2 | 15.9 |
| 0306 | West River | West Hill Dam, near Uxbridge, MA | 5.1 | 14.9 | 12.5 | 27.9 |
| 0307 | Quinsigamond River | North Grafton, MA | 51.6 | 13.5 | 11.3 | 25.6 |
| 0101 | Pawtuxet River | Mouth | 17.1 | 17.5 | 33.9 | 232.0 |
| 0102 | Pawtuxet River | Warwick Avenue, Cranston, RI | 16.8 | 18.7 | 32.8 | 231.0 |
| 0103 | Pawtuxet River | Cranston, RI | 10.9 | 22.1 | 29.3 | 201.0 |
| 0105 | South Branch,Pawtuxet River | Washington, RI | 4.8 | 35.3 | 12.3 | 62.9 |
| 0901 | Tenmile River | Mouth | 39.8 | 9.0 | 22.2 | 55.4 |
| 0902 | Tenmile River | Pawtucket Avenue, East Providence, RI | 38.0 | 9.3 | 21.0 | 53.5 |
| 0501 | Woonasquatucket River | Mouth | 34.0 | 15.8 | 21.9 | 51.9 |
| 0502 | Woonasquatucket River | Valley Street, Providence, RI | 28.4 | 20.7 | 19.0 | 47.8 |
| 0503 | Woonasquatucket River | Centerdale, RI | 17.4 | 26.2 | 14.0 | 38.2 |




| Subbasin Code | Subbasin | Site Location | Urban Area (percent) | Stream Slope (feet/mile) | Stream Length (miles) | Drainage Area (square miles) |
|---|---|---|---|---|---|---|
| 1701 | Palmer River | Fall River Avenue, North Swansea, MA | 5.4 | 7.7 | 16.5 | 47.4 |
| 1702 | Rocky Run | Davis Street, South Rehoboth, MA | 1.2 | 24.4 | 7.7 | 7.4 |
| 1703 | Palmer River | Reed Street, South Rehoboth, MA | 4.8 | 10.4 | 12.4 | 30.9 |
| 0401 | Moshassuck River | Mouth | 54.2 | 18.9 | 10.3 | 23.7 |
| 0402 | Moshassuck River | Providence, RI | 53.5 | 17.8 | 9.9 | 23.3 |
| 1301 | Hunt River | East Greenwich, RI | 21.9 | 38.2 | 9.1 | 22.9 |
| 2101 | Cole River | Wilbur Avenue, Swansea, MA | 7.6 | 10.5 | 11.2 | 13.4 |
| 2102 | Cole River | Hortonville, MA | 1.0 | 10.6 | 6.3 | 7.8 |
| 1801 | Runnins River | School Street, Seekonk, MA | 36.0 | 13.3 | 7.6 | 9.4 |
| 1802 | Runnins River | Fall River Avenue, Seekonk, MA | 15.0 | 19.8 | 5.1 | 5.9 |
| 1501 | Annaquatucket River | Hamilton, RI | 10.2 | 18.5 | 4.5 | 6.5 |
| 1401 | Maskerchugg River | East Greenwich, RI | 36.4 | 64.6 | 4.4 | 5.9 |
| 1601 | Old Mill Creek | Warwick, RI | 84.6 | 12.2 | 4.4 | 5.4 |
| 0601 | Ungaged area | adjacent to bay | 48.3 | -- | -- | 169.0 |
| 2001 | Adamsville Brook** | Adamsville, R.I. | 2.0 | 32.2 | 6.0 | 8.0 |




** Not part of Narragansett Bay basin, but data from site were used in the regression analyses to estimate long-term runoff.

--Data not available or not applicable. Stream slopes and stream lengths for the intervening area in the Taunton River basin and ungaged subbasin 0601 are not available because these areas are composed from several small subbasins.

# DATA-COLLECTION NETWORK DURING WATER YEAR 1987 AND SURFICIAL FEATURES OF THE NARRAGANSETT BAY DRAINAGE BASIN, RHODE ISLAND AND MASSACHUSETTS

By K. G. Ries III

1990