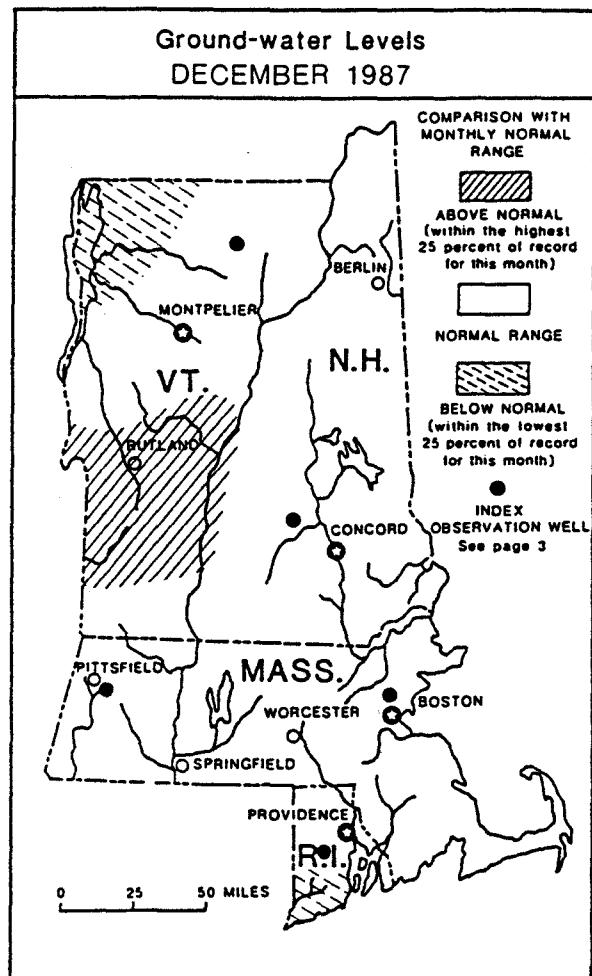
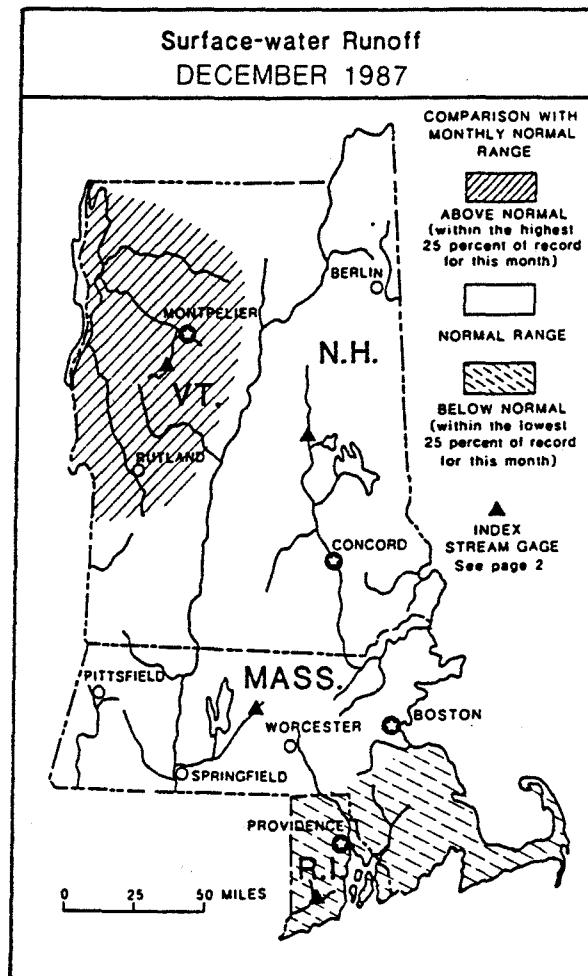


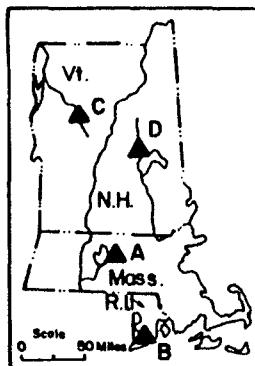


CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND



WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY
IN COOPERATION WITH THE STATES OF
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND AND VERMONT



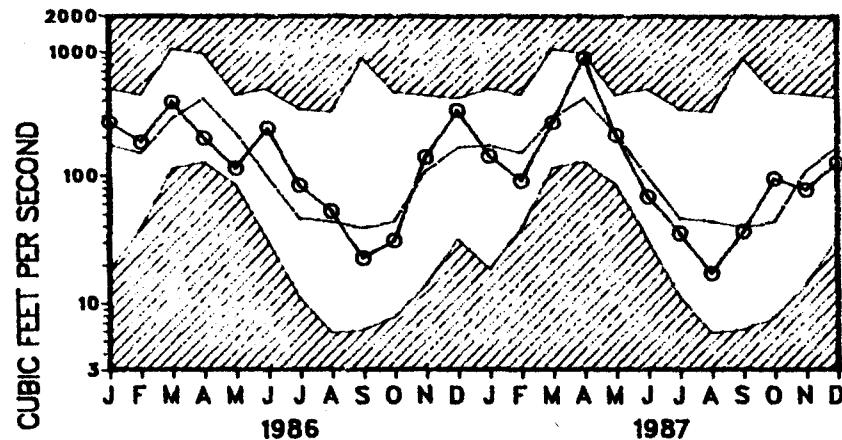


STREAMFLOW AT SELECTED INDEX GAGES

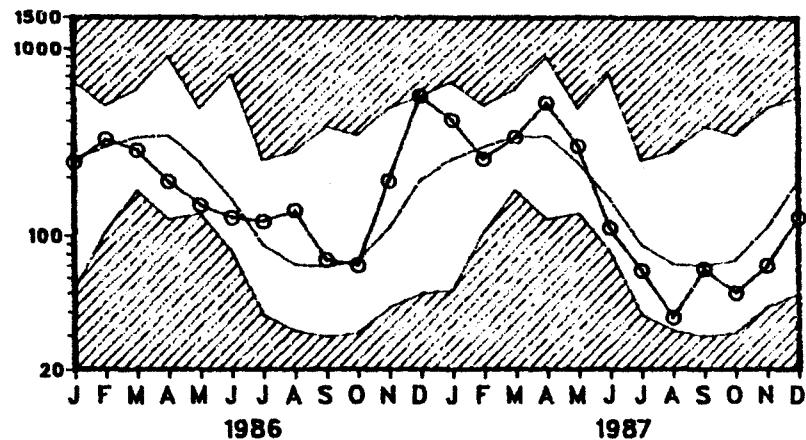
UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTHLY MEAN DISCHARGE OF RECORD

CURRENT RECORDS ————— MEDIAN —————

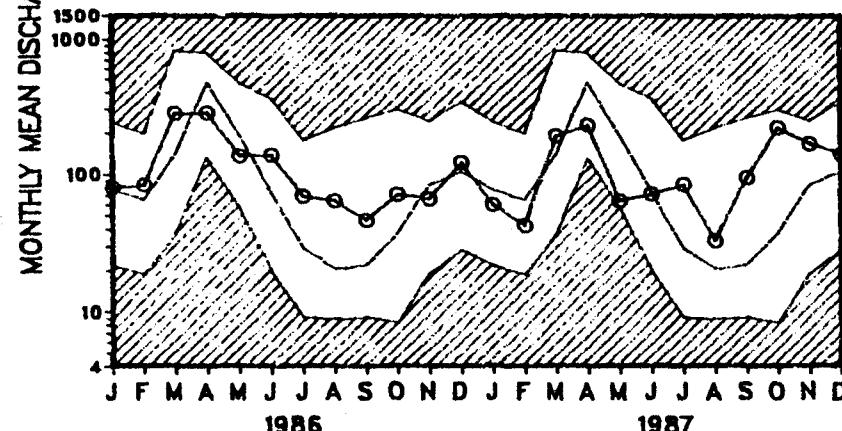
WARE RIVER
AT INTAKE WORKS NEAR BARRE, MASS. (A)



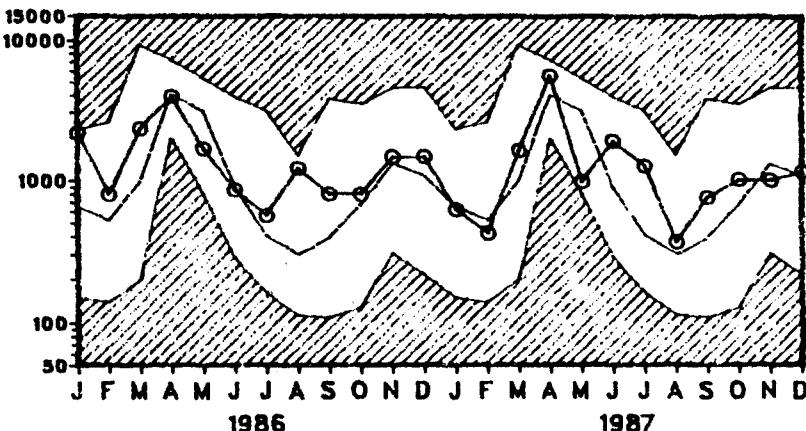
PAWCATUCK RIVER
AT WOOD RIVER JUNCTION, R.I. (B)



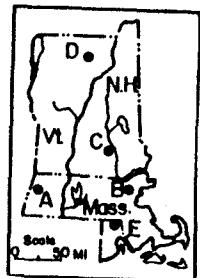
DOG RIVER
AT NORTHFIELD FALLS, VT. (C)



PEMIGEWASSET RIVER
AT PLYMOUTH, N.H. (D)

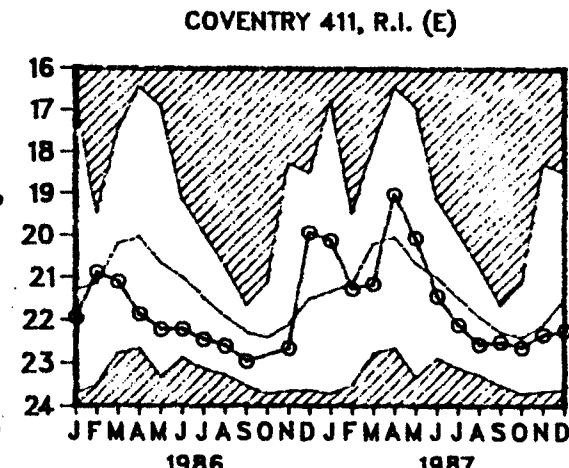
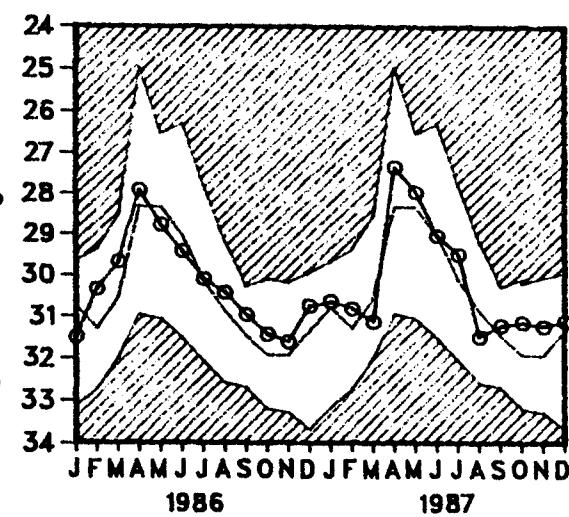
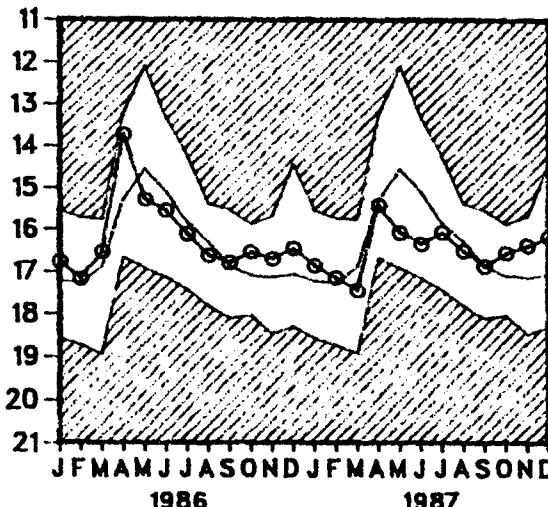
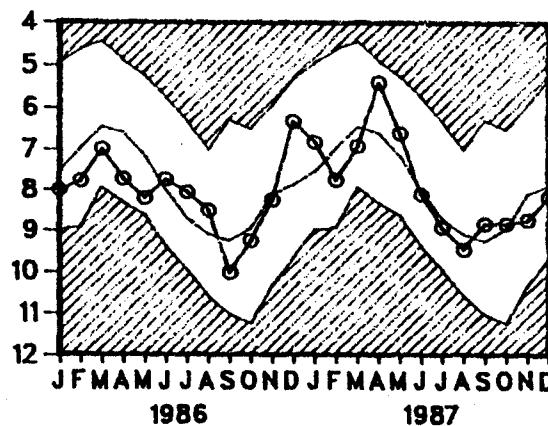
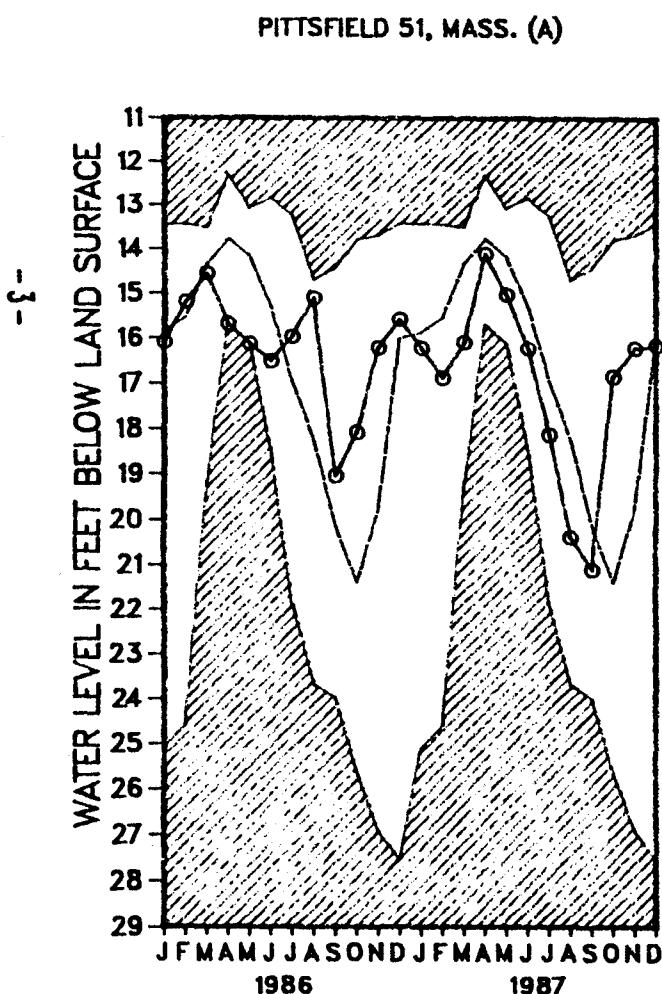


GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS



UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTH-END WATER LEVEL

CURRENT RECORDS — MEDIAN —



SUMMARY OF GROUND-WATER LEVELS

DECEMBER, 1987

PROVISIONAL

| WELL | START OF RECORD | NET CHANGE IN MONTH IN ONE YEAR | DEPARTURE FROM DECEMBER MEDIAN (FEET) | WATER LEVEL BELOW LAND- SURFACE DATUM (FEET) | DAY |
|---------------------|-----------------------|--|---|--|------------|
| | | (FEET) | (FEET) | | |
| MASSACHUSETTS | | | | | |
| ACTON 158 | 1965 | + 0.08 | - 1.35 | - 0.68 | 20.18 22 |
| ANDOVER 26 | 1962 | + 0.94 | - 4.22 | - 1.72 | 11.64 27 |
| ANDOVER 462 | 1968 | + 0.28 | - 1.64 | - 0.63 | 14.67 27 |
| ATTLEBORO 83 | 1964 | - 0.10 | - 0.90 | - 0.02 | 3.53 22 |
| BARNSTABLE 230 | 1957 | - 0.01 | - 0.09 | + 0.37 | 23.99 22 |
| BARNSTABLE 247 | 1962 | - 0.18 | + 1.03 | + 1.00 | 23.93 22 |
| BILLERICA 363 | 1962 | + 1.81 | - 3.91 | - 0.13 | 7.48 22 |
| BOSTON 925 | 1960 | - 0.21 | + 0.37 | + 0.06 | 23.04 22 |
| BOURNE 198 | 1962 | + 0.14 | + 1.02 | + 0.55 | 33.66 22 |
| BREWSTER 21 | 1962 | - 0.15 | + 1.73 | + 0.50 | 9.52 23 |
| BREWSTER 22 | 1962 | - 0.14 | + 1.06 | + 0.70 | 30.89 23 |
| CHATHAM 138 | 1962 | - 0.07 | + 0.03 | + 0.24 | 24.00 23 |
| CHELMSFORD 68 | 1939 | - 1.24 | - 4.48 | - 1.90 | 10.27 22 |
| CHELMSFORD 385 | 1965 | + 0.07 | - 0.97 | + 0.45 | 16.36 22 |
| CHESHIRE 2 | 1951 | + 0.15 | + 0.27 | + 1.33 | 3.79 21 |
| CHICOPEE 95 | 1984 | + 0.03 | + 0.15 | ----- | 22.90 > 21 |
| COLRAIN 8 | 1965 | + 0.78 | + 0.62 | + 1.33 | 19.68 22 |
| CONCORD 165 | 1965 | - 0.37 | + 1.62 | + 0.37 | 41.33 22 |
| CONCORD 167 | 1965 | + 0.64 | - 1.69 | - 0.32 | 7.38 22 |
| DEDHAM 231 | 1965 | + 1.83 | - 1.88 | - 0.02 | 5.59 20 |
| DEERFIELD 44 | 1965 | + 0.23 | - 0.09 | + 0.20 | 2.55 21 |
| DOVER 10 | 1965 | + 0.17 | - 0.68 | + 0.04 | 34.49 25 |
| DUXBURY 79 | 1965 | + 0.20 | - 0.44 | + 0.31 | 7.69 22 |
| DUXBURY 80 | 1965 | + 0.52 | - 0.33 | + 0.48 | 21.10 22 |
| EAST BRIDGEWATER 30 | 1958 | + 4.24 | - 4.74 | + 0.63 | 8.35 22 |
| EDGARTOWN 52 | 1976 | - 0.54 | - 0.01 | + 1.06 | 17.62 26 |
| FOXBOROUGH 3 | 1965 | + 0.44 | - 1.76 | - 0.44 | 19.48 25 |
| FREETOWN 23 | 1964 | + 0.33 | + 0.49 | + 0.64 | 13.01 22 |
| GEOGETOWN 168 | 1965 | + 0.29 | - 1.30 | - 0.04 | 4.32 27 |
| GRANBY 68 | 1954 | + 0.67 | - 0.21 | + 0.00 | 7.81 21 |
| GRANVILLE 5 | 1965 | + 0.01 | + 0.97 | + 0.48 | 33.55 22 |
| GRANVILLE 6 | 1965 | - 0.12 | - 2.44 | - 1.47 | 5.56 22 |
| GREAT BARRINGTON 2 | 1951 | - 0.16 | - 1.58 | + 1.61 | 9.59 21 |
| HALIFAX 97 | 1977 | + 0.12 | - 0.76 | + 0.15 | 3.69 22 |
| HANSON 76 | 1964 | - 0.39 | - 0.92 | - 0.02 | 4.31 22 |
| HARDWICK 1 | 1965 | + 0.35 | - 0.93 | - 0.85 | 15.25 21 |
| HARDWICK 31 | 1984 | + 0.08 | + 0.04 | ----- | 11.22 21 |
| HAVERHILL 23 | 1960 | + 0.71 | - 1.02 | + 0.41 | 12.60 27 |
| LAKEVILLE 14 | 1964 | + 1.49 | + 2.49 | + 1.22 | 15.85 22 |
| LEXINGTON 104 | 1965 | + 0.21 | - 0.64 | + 0.15 | 2.38 22 |
| MASHPEE 29 | 1976 | + 0.25 | - 0.90 | + 0.40 | 8.76 22 |
| MIDDLEBOROUGH 82 | 1965 | + 4.29 | - 3.34 | + 1.07 | 7.49 22 |
| MONTAGUE 5 | 1942 | + 0.21 | - 0.22 | + 0.59 | 2.70 21 |

| WELL | START OF RECORD | NET CHANGE IN MONTH IN ONE YEAR | DEPARTURE FROM DECEMBER MEDIAN | WATER LEVEL BELOW LAND- SURFACE DATUM |
|------|-----------------------|--|---|--|
| | | (FEET) | (FEET) | (FEET) DAY |

MASSACHUSETTS (CONTINUED)

| | | | | |
|--------------------|------|--------|--------|-----------------|
| NANTUCKET 228 | 1976 | - 0.44 | - 0.33 | + 0.10 25.68 22 |
| NEW BEDFORD 116 | 1964 | + 0.39 | - 0.08 | + 0.48 3.21 22 |
| NEWBURY 27 | 1965 | + 1.85 | - 1.72 | + 0.64 5.75 27 |
| NORFOLK 27 | 1965 | + 0.11 | - 1.10 | + 0.75 5.30 25 |
| NORTHBRIDGE 1 | 1965 | + 0.03 | - 0.43 | - 1.51 4.63 21 |
| NORTON 37 | 1964 | - 0.25 | - 2.38 | + 0.30 5.92 22 |
| ORANGE 63 | 1985 | + 0.14 | - 0.53 | +----- 7.33 23 |
| OTIS 7 | 1965 | - 0.06 | - 0.45 | - 0.20 8.27 22 |
| PELHAM 23 | 1984 | + 0.10 | - 0.46 | +----- 11.31 21 |
| PELHAM 24 | 1984 | + 0.11 | - 0.86 | +----- 4.19 21 |
| PETERSHAM 16 | 1984 | + 0.87 | - 2.38 | +----- 13.30 21 |
| PITTSFIELD 51 | 1963 | + 0.06 | - 0.58 | - 0.18 16.17 21 |
| PLYMOUTH 22 | 1956 | - 0.29 | + 1.06 | + 0.44 24.99 22 |
| SALISBURY 9 | 1960 | + 0.57 | - 0.68 | + 0.29 4.21 27 |
| SANDWICH 252 | 1962 | + 0.03 | + 0.11 | + 0.15 47.42 22 |
| SANDWICH 253 | 1962 | - 0.09 | + 2.28 | + 1.48 48.61 22 |
| SEEKONK 275 | 1964 | - 0.13 | - 0.78 | + 0.55 5.80 22 |
| STERLING 1 | 1947 | + 0.56 | + 0.00 | + 0.15 3.10 21 |
| SUNDERLAND 7 | 1957 | + 0.32 | - 1.22 | - 0.99 17.98 21 |
| TAUNTON 337 | 1964 | + 0.18 | - 0.91 | + 0.46 8.39 22 |
| TEMPLETON 3 | 1957 | + 0.01 | - 0.72 | - 0.14 3.61 21 |
| TOPSFIELD 1 | 1936 | + 4.96 | - 1.37 | + 1.91 9.31 27 |
| TOWNSEND 13 | 1965 | + 0.11 | - 1.14 | - 0.21 14.05 22 |
| TRURO 1 | 1950 | + 0.27 | + 0.21 | + 0.30 10.43 23 |
| TRURO 89 | 1962 | + 0.17 | + 0.02 | + 0.10 11.98 23 |
| WAKEFIELD 38 | 1965 | + 0.65 | - 1.07 | + 0.28 6.56 22 |
| WARE 43 | 1965 | - 0.17 | - 0.36 | - 0.38 9.56 21 |
| WAREHAM 51 | 1959 | + 0.15 | - 1.26 | - 1.94 9.77 22 |
| WAYLAND 2 | 1965 | + 0.14 | - 0.99 | - 0.40 16.62 22 |
| WEBSTER 1 | 1958 | + 0.66 | - 0.85 | - 0.73 14.71 21 |
| WELLFLEET 17 | 1962 | - 0.24 | + 0.44 | + 0.06 10.57 23 |
| WENHAM 76 | 1965 | + 0.48 | - 0.42 | + 0.32 2.13 27 |
| WEST BROOKFIELD 2 | 1959 | - 0.05 | + 0.27 | + 0.42 19.53 21 |
| WEST BROOKFIELD 10 | 1970 | + 1.20 | - 1.13 | - 1.80 6.59 21 |
| WESTFIELD 62 | 1957 | - 0.04 | + 1.16 | - 0.17 7.72 23 |
| WEYMOUTH 2 | 1965 | + 3.54 | - 2.57 | + 0.77 10.65 25 |
| WEYMOUTH 3 | 1965 | - 0.24 | - 1.37 | + 0.14 4.82 25 |
| WEYMOUTH 4 | 1965 | - 0.36 | - 1.66 | + 0.24 6.51 25 |
| WILBRAHAM 55 | 1965 | + 0.49 | + 0.49 | + 0.07 43.26 21 |
| WILMINGTON 78 | 1951 | + 0.57 | - 1.84 | - 0.36 8.17 22 |
| WINCHENDON 13 | 1939 | + 1.04 | - 2.27 | - 0.08 5.93 21 |
| WINCHESTER 14 | 1940 | + 1.57 | - 2.75 | + 1.55 7.74 22 |
| WORCESTER 274 | 1965 | + 0.10 | - 0.50 | - 0.07 23.58 21 |

| WELL | START OF RECORD | NET CHANGE IN MONTH | NET CHANGE IN ONE YEAR | DEPARTURE FROM DECEMBER | WATER LEVEL BELOW LAND- SURFACE MEDIAN (FEET) | DATUM (FEET) | DAY |
|------|-----------------------|------------------------|------------------------------|-------------------------------|---|-----------------|-----|
| | | (FEET) | (FEET) | (FEET) | | | |

NEW HAMPSHIRE

| | | | | | | |
|--------------|------|---------|---------|---------|-------|----|
| CONCORD 2 | 1963 | - 0.19 | + 0.68 | - 1.77 | 41.69 | 30 |
| CONCORD 3 | 1966 | - 0.45 | + 0.55 | + 0.38 | 56.75 | 30 |
| CONCORD 4 | 1966 | - 0.36 | - 0.70 | - 0.17 | 17.92 | 30 |
| ERROL 1 | 1966 | + 0.0 | + 0.1 | - 0.2 | 12.9 | 26 |
| FRANKLIN 1 | 1966 | + 0.10 | + 0.40 | + 0.35 | 12.60 | 30 |
| HOOKSETT 5 | 1965 | + 0.77 | - 0.80 | - 0.81 | 48.70 | 30 |
| KEENE 2 | 1963 | + 0.00 | - 1.12 | - 0.07 | 3.51 | 21 |
| LANCASTER 1 | 1966 | + ----- | + ----- | + ----- | ----- | -- |
| LEE 1 | 1953 | + 0.42 | - 1.08 | - 0.15 | 31.23 | 30 |
| MILFORD 36 | 1962 | + 0.02 | - 1.46 | + 0.49 | 7.74 | 23 |
| NASHUA 143 | 1958 | + ----- | + ----- | + ----- | ----- | -- |
| NASHUA 218 | 1964 | + 1.13 | + 0.83 | + 0.83 | 27.59 | 30 |
| NEW LONDON 1 | 1947 | - 0.15 | - 0.47 | + 0.15 | 8.15 | 30 |
| WARNER 1 | 1965 | + 0.12 | - 0.37 | + 0.01 | 31.13 | 30 |

RHODE ISLAND

| | | | | | | |
|---------------------|------|--------|--------|--------|----------|----|
| BURRILLVILLE 187 | 1968 | + 0.24 | - 1.17 | + 0.92 | 14.55 | 28 |
| CHARLESTOWN 18 | 1946 | + 0.77 | - 6.22 | - 1.64 | 20.06 | 28 |
| COVENTRY 411 | 1961 | + 0.09 | - 2.32 | - 0.81 | 22.25 | 28 |
| CUMBERLAND 265 | 1946 | + 0.11 | - 1.92 | - 0.02 | 11.69 | 28 |
| EXETER 6 | 1948 | + 0.38 | - 2.56 | - 0.26 | 6.21 | 25 |
| EXETER 16 | 1946 | - 0.22 | - 3.24 | + 0.32 | 11.74 | 28 |
| LINCOLN 84 | 1946 | + 0.09 | - 3.13 | - 0.17 | 5.37 | 28 |
| NORTH KINGSTOWN 255 | 1954 | + 0.27 | - 2.83 | - 0.90 | 9.34 | 28 |
| NORTH KINGSTOWN 450 | 1961 | + 2.79 | - 2.77 | - 0.45 | 14.14 | 28 |
| NORTH SMITHFIELD 21 | 1947 | + 1.91 | - 2.97 | - 0.58 | 8.27 | 28 |
| PAWTUCKET 136 | 1962 | + 0.16 | - 1.67 | + 0.10 | 4.84 | 28 |
| PROVIDENCE 48 | 1944 | - 0.12 | - 0.49 | + 2.53 | 4.50 | 25 |
| PROVIDENCE 1051 | 1948 | + 0.03 | + 0.69 | + 6.72 | -0.15 >> | 28 |
| RICHMOND 231 | 1955 | +----- | +----- | +----- | ----- | 28 |
| RICHMOND 417 | 1976 | + 0.22 | - 1.97 | - 0.81 | 7.47 | 28 |
| RICHMOND 600 | 1977 | + 0.29 | - 2.17 | - 1.03 | 34.97 | 28 |
| SOUTH KINGSTOWN 6 | 1955 | + 0.58 | - 3.22 | - 0.80 | 13.48 | 25 |
| SOUTH KINGSTOWN 515 | 1955 | +----- | - 3.26 | - 0.93 | 28.27 | 28 |
| WESTERLY 522 | 1969 | + 0.82 | - 2.31 | - 0.85 | 12.50 | 28 |
| WEST GREENWICH 181 | 1969 | + 0.54 | - 1.58 | - 0.04 | 15.45 | 28 |

| WELL | START OF RECORD | NET CHANGE IN MONTH | NET CHANGE IN ONE YEAR | DEPARTURE FROM DECEMBER MEDIAN | WATER LEVEL BELOW LAND- SURFACE DATUM |
|------|-----------------------|------------------------|------------------------------|---|--|
| | | (FEET) | (FEET) | (FEET) | (FEET) DAY |

VERMONT

| | | | | | | |
|----------------|------|---------|--------|--------|-------|----|
| BERKSHIRE 1 | 1966 | + 0.20 | - 0.18 | - 0.61 | 14.01 | 28 |
| BRIGHTON 1 | 1966 | + 0.18 | - 0.46 | + 0.08 | 3.79 | 24 |
| CHESTER 1 | 1966 | + 0.18 | + 0.13 | + 0.15 | 4.75 | 22 |
| GLOVER 1 | 1966 | + 0.20 | + 0.28 | + 0.85 | 16.18 | 28 |
| HARTLAND 54 | 1969 | - 0.13 | + 0.47 | + 0.71 | 8.20 | 31 |
| MIDDLESEX 3 | 1966 | + 0.79 | + 0.67 | + 0.06 | 21.55 | 31 |
| MILTON 3 | 1956 | - 0.53 | - 4.11 | - 3.21 | 37.25 | 28 |
| MONTPELIER 2 | 1966 | - 0.04 | + 0.55 | + 0.03 | 15.30 | 28 |
| MORRISTOWN 1 | 1966 | + 0.47 | + 0.25 | - 0.18 | 18.88 | 28 |
| PITTSFORD 8 | 1957 | + 0.04 | + 0.65 | + 1.75 | 34.82 | 21 |
| POWNAL 1 | 1964 | + ----- | - 0.56 | - 0.02 | 13.64 | 29 |
| ROCHESTER 1 | 1966 | - 0.77 | - 0.52 | - 0.21 | 10.97 | 31 |
| WAITSFIELD 2 | 1975 | - 0.19 | + 0.52 | + 0.06 | 6.49 | 31 |
| WAITSFIELD 3 | 1975 | - 0.25 | + 0.24 | + 0.13 | 6.36 | 31 |
| WEST FAIRLEE 1 | 1966 | - 0.35 | + 0.50 | + 0.42 | 3.45 | 31 |

> SET NEW HIGH OR EQUALLED HIGHEST RECORDED WATER LEVEL FOR END OF DECEMBER
 >> SET NEW HIGH OR EQUALLED HIGHEST RECORDED WATER LEVEL FOR PERIOD OF RECORD
 < SET NEW LOW OR EQUALLED LOWEST RECORDED WATER LEVEL FOR END OF DECEMBER
 << SET NEW LOW OR EQUALLED LOWEST RECORDED WATER LEVEL FOR PERIOD OF RECORD
 -- DATA NOT AVAILABLE

CONTENTS OF MAJOR RESERVOIRS (ESTIMATED END OF MONTH READINGS)
(MILLIONS OF CUBIC FEET)

| RESERVOIR | MONTH-END CONTENTS | % AVERAGE | % FULL |
|------------------------------------|-----------------------|--------------|-----------|
| FIRST CONNECTICUT LAKE, NH | 2205 | 114 | 66 |
| LAKE FRANCIS, NH | 3262 | 107 | 75 |
| LAKE WINNIPESAUKEE, NH | 4230 | 97 | 59 |
| SOMERSET RESERVOIR, VT | 1998 | 119 | 80 |
| HARRIMAN RESERVOIR, VT | 3400 | 112 | 69 |
| BORDEN BROOK + COBBLE MTN RES., MA | 2670 | 109 | 79 |

A MONTHLY REPORT PREPARED BY THE
 U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
 SUITE 1309, 150 CAUSEWAY STREET, BOSTON, MA 02114

IN COOPERATION WITH THE STATES OF
 MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT