



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

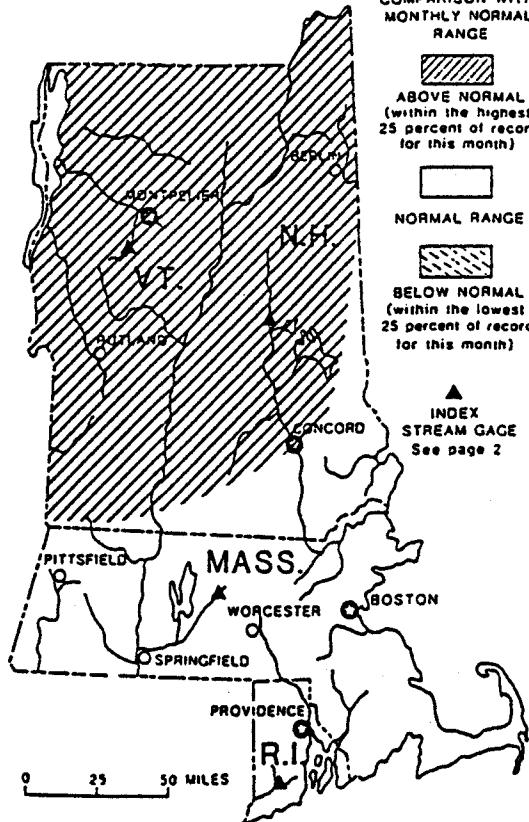


Surface-water Runoff SEPTEMBER 1987

COMPARISON WITH
MONTHLY NORMAL
RANGE

- ▲ ABOVE NORMAL
(within the highest
25 percent of record
for this month)
- NORMAL RANGE
- BELOW NORMAL
(within the lowest
25 percent of record
for this month)

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STREAM GAGE
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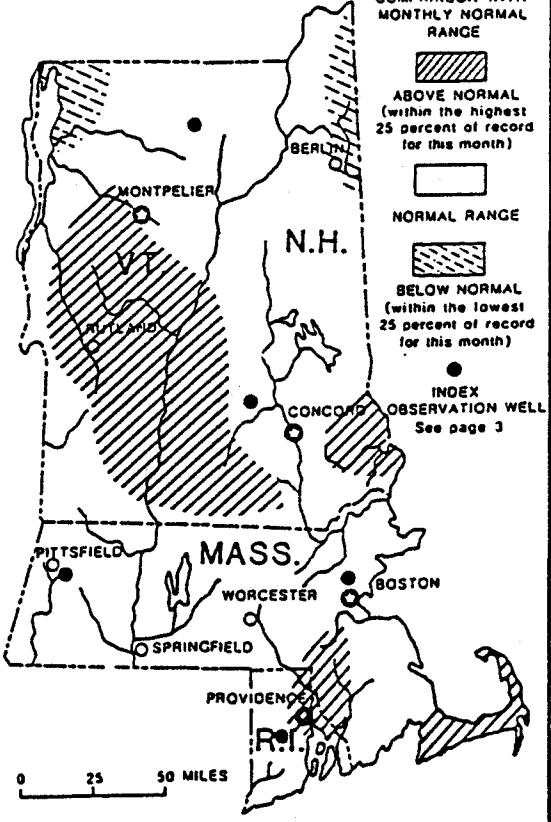


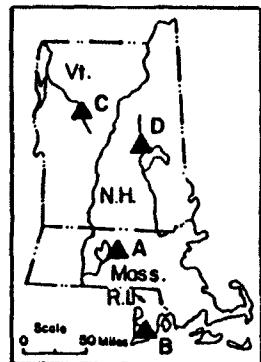
Ground-water Levels SEPTEMBER 1987

COMPARISON WITH
MONTHLY NORMAL
RANGE

- ▲ ABOVE NORMAL
(within the highest
25 percent of record
for this month)
- NORMAL RANGE
- BELOW NORMAL
(within the lowest
25 percent of record
for this month)

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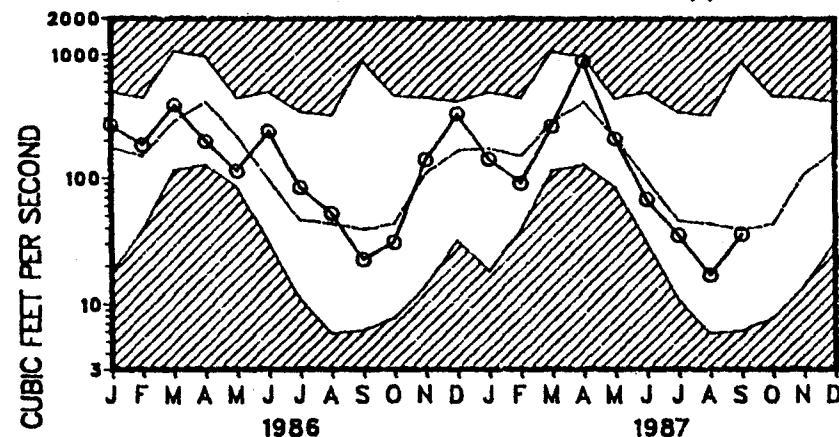
STREAMFLOW AT SELECTED INDEX GAGES

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

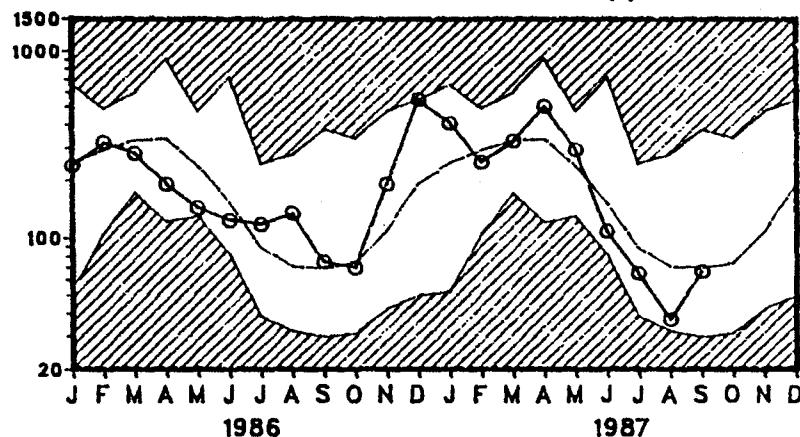
CURRENT RECORDS —————

MEDIAN —————

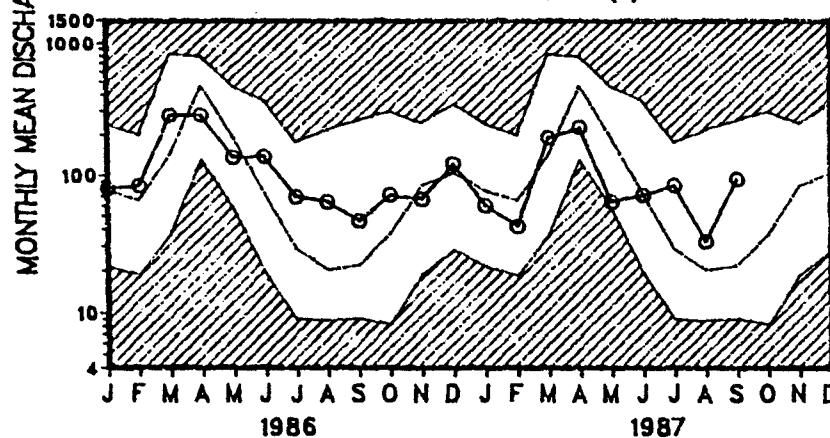
WARE RIVER
AT INTAKE WORKS NEAR BARRE, MASS. (A)



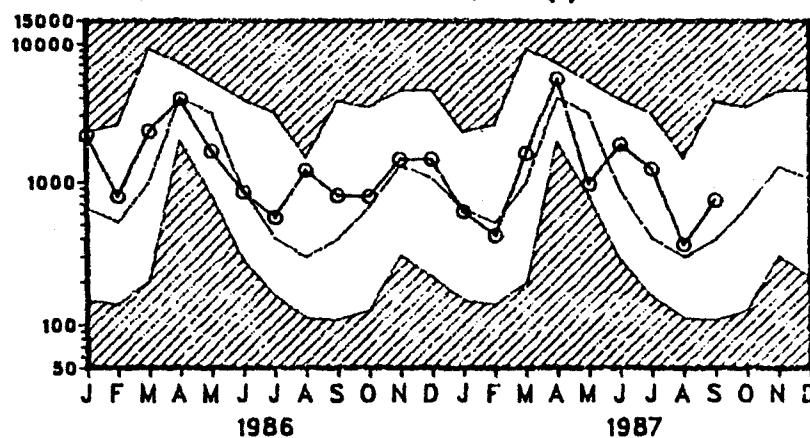
PAWCATUCK RIVER
AT WOOD RIVER JUNCTION, R.I. (B)



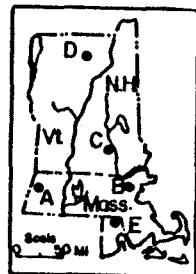
DOG RIVER
AT NORTHFIELD FALLS, VT. (C)



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



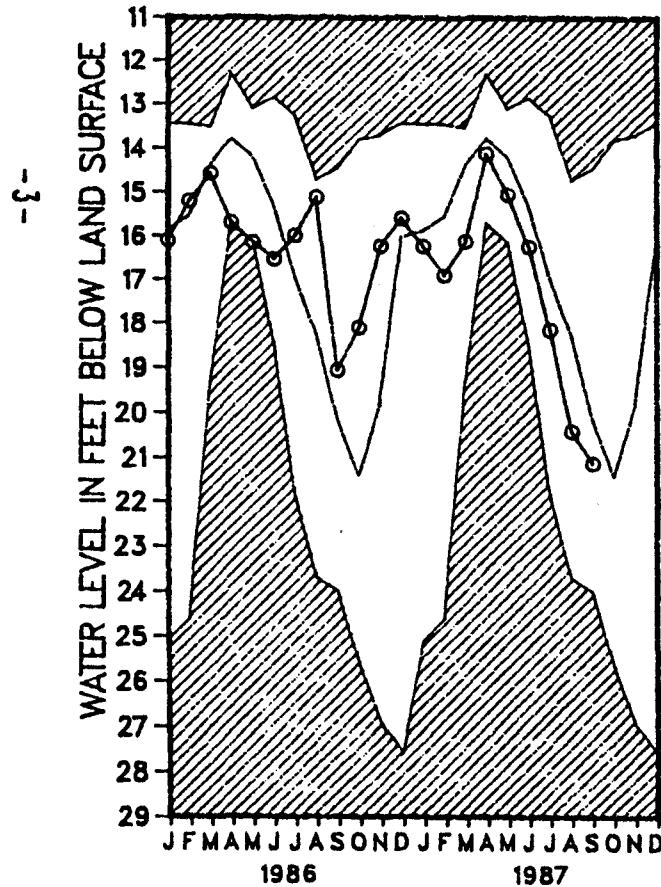
GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS



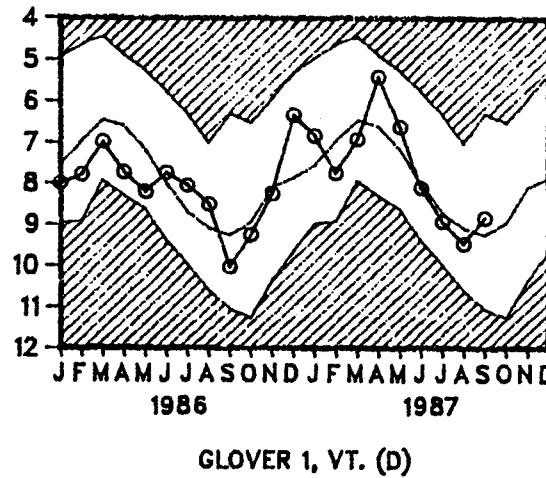
UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTH-END WATER LEVEL

CURRENT RECORDS ————— MEDIAN —————

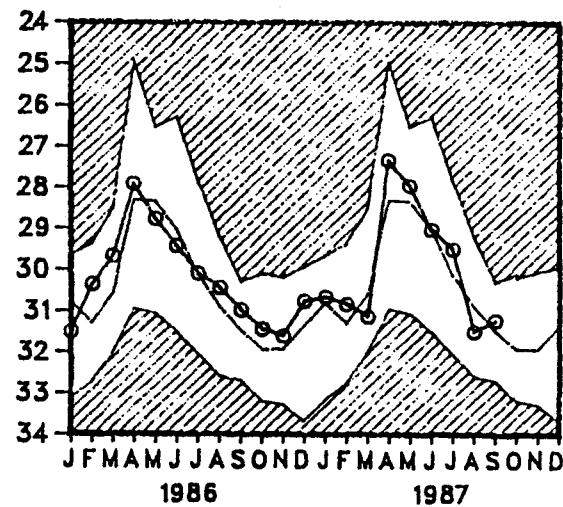
PITTSFIELD 51, MASS. (A)



WILMINGTON 78, MASS. (B)



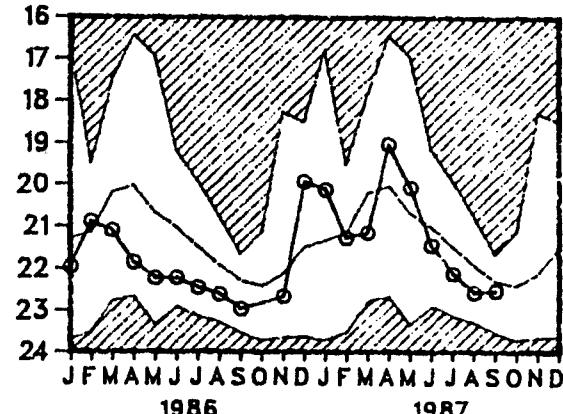
WARNER 1, N.H. (C)



GLOVER 1, VT. (D)



COVENTRY 411, R.I. (E)



SUMMARY OF GROUND-WATER LEVELS

SEPTEMBER, 1987

PROVISIONAL

WELL	START OF RECORD	NET CHANGE IN MONTH	NET CHANGE IN ONE YEAR	DEPARTURE FROM SEPTEMBER MEDIAN	WATER LEVEL BELOW LAND- SURFACE DATUM	(FEET)	(FEET)	(FEET)	DAY
MASSACHUSETTS									
ACTION 158	1965	- 0.70	+ 0.13	+ 0.07	19.79	21			
ANDOVER 26	1962	+ 0.44	+ 0.42	+ 0.15	12.28	22			
ANDOVER 462	1968	+ 0.26	+ 0.06	- 0.01	14.91	22			
ATTLEBORO 83	1964	+ 2.06	+ 1.05	+ 1.30	3.15 >	22			
BARNSTABLE 230	1957	- 0.09	+ 1.40	+ 0.55	23.90	28			
BARNSTABLE 247	1962	- 0.54	+ 2.17	+ 1.67	22.99	28			
BILLERICA 363	1962	+ 1.08	+ 0.50	+ 1.45	9.50	21			
BOSTON 925	1960	+ —	+ —	+ —	—	25			
BOURNE 198	1962	- 0.36	+ 0.62	+ 0.79	33.31	23			
BREWSTER 21	1962	+ 0.14	+ 2.78	+ 1.21	8.71	24			
BREWSTER 22	1962	- 0.20	+ 1.88	+ 0.96	30.22	24			
CHATHAM 138	1962	- 0.10	+ 1.31	+ 0.92	23.53	24			
CHELMSFORD 68	1939	+ 0.95	+ 2.06	+ 2.44	7.55	21			
CHELMSFORD 385	1965	+ 0.53	+ 0.63	+ 1.23	16.41	21			
CHESHIRE 2	1951	+ 5.69	- 1.40	+ 0.59	7.88	22			
CHICOPEE 95	1984	- 0.33	- 0.25	+ —	22.63	24			
COLRAIN 8	1965	+ 0.37	+ 0.23	+ 0.03	21.05	21			
CONCORD 165	1965	- 0.53	+ 2.35	+ 0.96	40.00	21			
CONCORD 167	1965	+ 0.22	- 0.24	- 0.16	8.57	21			
DEDHAM 231	1965	+ 0.53	- 0.53	- 0.68	11.55	22			
DEERFIELD 44	1965	+ 2.81	+ 0.56	+ 1.02	2.49	23			
DOVER 10	1965	- 0.41	- 0.57	- 0.05	34.42	22			
DUXBURY 79	1965	+ 0.57	+ 0.13	+ 0.24	8.94	22			
DUXBURY 80	1965	+ 0.16	+ 0.13	+ 0.45	22.40	22			
EAST BRIDGEWATER 30	1958	+ 1.22	- 2.02	+ 1.25	12.41	22			
EDGARTOWN 52	1976	+ —	+ —	+ —	—	27			
FOXBOROUGH 3	1965	+ 0.18	- 0.32	+ 0.07	20.15	22			
FREETOWN 23	1964	+ 0.13	+ 1.07	+ 0.47	13.35	22			
GEORGETOWN 168	1965	+ 1.75	+ 1.22	+ 1.35	4.35 >	22			
GRANBY 68	1954	+ 0.53	+ 0.51	+ 0.37	9.16	24			
GRANVILLE 5	1965	- 0.43	+ 1.10	+ 0.44	33.13	22			
GRANVILLE 6	1965	+ 3.40	+ 2.94	+ 2.58	4.44	22			
GREAT BARRINGTON 2	1951	+ 1.82	+ 1.78	+ 1.95	10.80	22			
HALIFAX 97	1977	+ 0.71	+ 0.14	+ 0.37	4.30	22			
HANSON 76	1964	+ 1.28	+ 0.76	+ 0.76	4.46	22			
HARDWICK 1	1965	+ 0.18	+ 0.42	+ 0.44	15.85	21			
HARDWICK 31	1984	+ 0.16	+ 0.24	+ —	11.34 >	24			
HAVERHILL 23	1960	- 0.18	- 0.01	+ 0.23	13.61	22			
LAKEVILLE 14	1964	- 0.44	+ 3.17	+ 0.68	17.27	22			
LEXINGTON 104	1965	+ 1.20	+ 0.80	+ 0.93	2.35	22			
MASHPEE 29	1976	+ —	+ —	+ —	—	27			
MIDDLEBOROUGH 82	1965	+ —	+ —	+ —	—	22			
MONTAGUE 5	1942	+ 1.99	+ 1.55	+ 1.48	2.97	23			

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

MASSACHUSETTS (CONTINUED)

NANTUCKET 228	1976	- 0.71	+ 2.49	+ 0.85	23.79	23
NEW BEDFORD 116	1964	+ 0.40	- 0.14	- 0.18	4.63	22
NEWBURY 27	1965	+ 1.45	+ 0.08	+ 1.32	9.83	22
NORFOLK 27	1965	+ 0.81	+ 1.71	+ 1.11	5.94	22
NORTHBRIDGE 1	1965	+ 0.13	+ 0.46	- 1.07	4.54	21
NORTON 37	1964	+ —	+ —	+ —	—	22
ORANGE 63	1985	+ 0.58	+ 0.44	+ —	7.64 >	21
OTIS 7	1965	+ 1.74	+ 1.61	+ 1.46	8.03	22
PELHAM 23	1984	+ 0.82	- 0.51	+ —	13.67	23
PELHAM 24	1984	+ 3.36	+ 2.48	+ —	3.43 >	23
PETERSHAM 16	1984	- 0.54	- 1.00	+ —	16.39	24
PITTSFIELD 51	1963	- 0.71	- 2.05	- 1.23	21.10	22
PLYMOUTH 22	1956	+ 0.30	+ 2.50	+ 2.00	22.89	22
SALISBURY 9	1960	+ 0.89	+ 0.49	+ 0.18	6.60	22
SANDWICH 252	1962	- 0.10	+ 0.50	+ 0.40	47.09	23
SANDWICH 253	1962	- 0.01	+ 3.30	+ 1.99	47.79	23
SEEKONK 275	1964	+ 2.21	+ 1.37	+ 1.76	5.41 >	22
STERLING 1	1947	+ 2.37	+ 1.62	+ 3.03	7.55	21
SUNDERLAND 7	1957	- 1.38	- 3.33	- 3.10	17.20	23
TAUNTON 258	1976	+ —	+ —	+ —	—	25
TAUNTON 337	1964	+ 1.30	+ 0.83	+ 0.93	8.79	22
TEMPLETON 3	1957	+ 0.81	+ 0.39	+ 0.53	3.49	21
TOPSFIELD 1	1936	+ 0.39	- 0.33	+ 0.42	14.61	22
TOWNSEND 13	1965	- 0.71	- 0.21	+ 0.35	13.82	21
TRURO 1	1950	+ 0.20	+ 0.24	+ 0.39	10.65	24
TRURO 89	1962	+ 0.05	+ 0.38	+ 0.56	11.97	24
WAKEFIELD 38	1965	+ 1.80	+ 1.96	+ 2.04	6.63 >	21
WARE 43	1965	- 0.31	- 0.07	- 0.10	9.46	24
WAREHAM 51	1959	+ 0.68	+ 0.81	- 0.26	8.37	22
WAYLAND 2	1965	+ 0.19	- 0.16	- 0.45	17.01	22
WEBSTER 1	1958	- 0.25	- 0.03	- 0.58	15.68	21
WELLFLEET 17	1962	- 0.21	+ 1.59	+ 1.20	9.57	24
WENHAM 76	1965	+ 1.96	+ 1.52	+ 1.89	1.83 >	22
WEST BROOKFIELD 2	1959	- 0.33	- 0.82	+ 0.13	19.30	21
WEST BROOKFIELD 10	1970	- 0.10	+ 0.56	+ 0.34	10.38	21
WESTFIELD 62	1957	+ 1.17	+ 0.94	+ 0.69	8.03	21
WEYMOUTH 2	1965	- 0.99	- 2.77	- 1.10	18.97	22
WEYMOUTH 3	1965	+ 2.37	+ 1.88	+ 1.54	5.62	22
WEYMOUTH 4	1965	+ 1.49	+ 1.17	+ 1.50	6.60	22
WILBRAHAM 55	1965	- 0.66	- 0.84	- 0.78	43.31	24
WILMINGTON 78	1951	+ 0.64	+ 1.20	+ 0.44	8.83	21
WINCHENDON 13	1939	- 1.40	- 2.55	- 0.80	11.58	21
WINCHESTER 14	1940	+ 2.15	+ 1.86	+ 1.58	11.89	22
WORCESTER 274	1965	+ 0.50	+ 1.04	+ 0.44	23.41	21

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

NEW HAMPSHIRE

CONCORD 2	1963	- 0.07	+ 0.74	- 1.77	41.23	25
CONCORD 3	1966	- 0.12	+ 0.60	+ 0.08	56.46	25
CONCORD 4	1966	- 0.18	+ 0.00	+ 0.32	18.08	25
ERROL 1	1966	+ 0.4	+ 0.3	- 0.3	12.7	24
FRANKLIN 1	1966	- 0.76	+ 0.12	+ 0.10	12.66	25
HOOKSETT 5	1965	- 0.88	+ 0.31	- 0.30	49.86	25
KEENE 2	1963	+ 1.78	+ 1.40	+ 1.63	3.23 >	22
LANCASTER 1	1966	+ 0.42	- 0.11	+ 0.15	2.15	24
LEE 1	1953	+ 0.56	+ 0.77	+ 0.81	30.81	25
MILFORD 36	1962	+ 0.77	- 0.99	+ 1.68	8.43	24
NASHUA 143	1958	—	—	—	—	—
NASHUA 218	1964	+ 0.30	+ 0.24	+ 0.18	29.22	25
NEW LONDON 1	1947	+ 1.50	+ 999.90	+ 3.22	9.94	25
WARNER 1	1965	+ 0.27	- 0.25	+ 0.24	31.23	25

RHODE ISLAND

BURRILLVILLE 187	1968	+ 0.39	- 0.21	+ 1.91	15.31	25
CHARLESTOWN 18	1946	- 0.22	- 1.43	- 0.30	19.89	25
COVENTRY 411	1961	+ 0.05	+ 0.44	- 0.21	22.52	25
CUMBERLAND 265	1946	+ 2.75	+ 1.39	+ 2.61	12.70	25
EXETER 6	1948	+ 0.20	- 0.24	+ 0.11	6.78	25
EXETER 16	1946	- 0.01	+ 1.33	+ 1.85	10.75	25
LINCOLN 84	1946	+ 0.56	+ 0.68	+ 1.04	4.95	25
NORTH KINGSTOWN 255	1954	+ 0.66	+ 0.32	+ 0.48	9.27	25
NORTH KINGSTOWN 450	1961	- 0.11	- 0.13	+ 0.10	14.76	25
NORTH SMITHFIELD 21	1947	+ 0.30	- 0.99	- 0.13	10.16	25
PAWTUCKET 136	1962	+ 0.89	+ 0.54	+ 0.81	4.47	25
PROVIDENCE 48	1944	+ 0.46	+ 0.58	+ 2.81	4.35 >	25
PROVIDENCE 1051	1948	- 0.06	+ 1.74	+ 7.42	-0.02 >	25
RICHMOND 231	1955	- 0.91	+ 0.59	+ 0.09	26.02	25
RICHMOND 417	1976	+ 0.11	- 0.34	- 0.21	7.74	25
RICHMOND 600	1977	- 0.15	- 0.36	- 0.30	34.80	25
SOUTH KINGSTOWN 6	1955	- 0.10	- 0.21	- 0.23	13.64	25
SOUTH KINGSTOWN 515	1955	—	+ 0.35	+ 0.33	28.42	25
WESTERLY 522	1969	+ 0.63	- 0.29	- 0.29	13.48	25
WEST GREENWICH 181	1969	+ 0.14	- 0.10	+ 0.18	16.56	25

WELL	START OF RECORD	NET CHANGE IN MONTH	IN ONE YEAR	DEPARTURE FROM SEPTEMBER MEDIAN	WATER LEVEL BELOW LAND- SURFACE DATUM	(FEET)	(FEET)	(FEET)	DAY
VERMONT									
BERKSHIRE 1	1966	+ 0.21	- 0.94	- 0.55	15.37	23			
BRIGHTON 1	1966	+ 0.39	- 0.44	+ 0.08	4.12	24			
CHESTER 1	1966	+ 2.41	+ 1.96	+ 2.34	3.44 >	21			
GLOVER 1	1966	- 0.36	- 0.08	- 0.01	16.88	23			
HARTLAND 54	1969	+ 0.60	+ 0.85	+ 1.13	8.36 >	24			
MIDDLESEX 3	1966	+ 1.22	+ 0.34	+ 0.68	22.29	23			
MILTON 3	1956	- 0.90	- 1.97	- 2.36	35.49	23			
MONTPELIER 2	1966	+ 0.33	+ 0.22	+ 0.21	15.90	23			
MORRISTOWN 1	1966	+ 0.10	- 0.50	- 0.26	20.10	23			
PITTSFORD 8	1957	+ 0.27	- 0.36	+ 1.11	35.57	24			
POWNAL 1	1964	+ 1.04	+ 0.34	+ 0.52	13.80	30			
ROCHESTER 1	1966	+ 2.11	+ 0.88	+ 2.28	10.06	24			
WAITSFIELD 2	1975	+ 0.97	- 0.03	+ 0.71	6.33	24			
WAITSFIELD 3	1975	+ 1.20	+ 0.33	+ 1.00	6.27	24			
WEST FAIRLEE 1	1966	+ 1.02	+ 0.81	+ 1.53	3.39 >	24			

> SET NEW HIGH OR EQUALLED HIGHEST RECORDED WATER LEVEL FOR END OF SEPTEMBER
 >> 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 SEPTEMBER
 << 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	2517	97	76
LAKE FRANCIS, NH	3230	97	75
LAKE WINNIPESAUKEE, NH	5320	114	74
SOMERSET RESERVOIR, VT	2170	122	87
HARRIMAN RESERVOIR, VT	4170	128	82
BORDEN BROOK + COBBLE MTN RES., MA	2598	104	77

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