

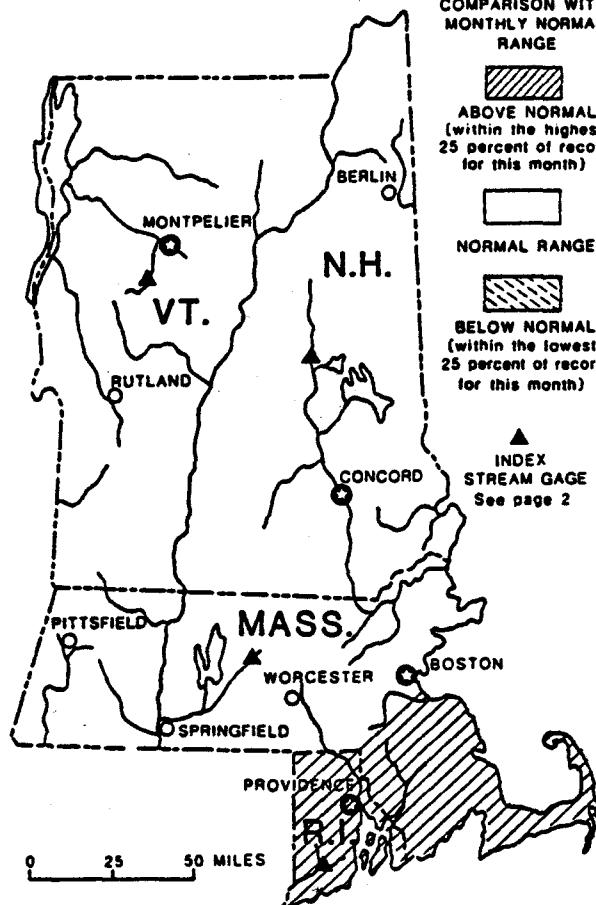


CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND

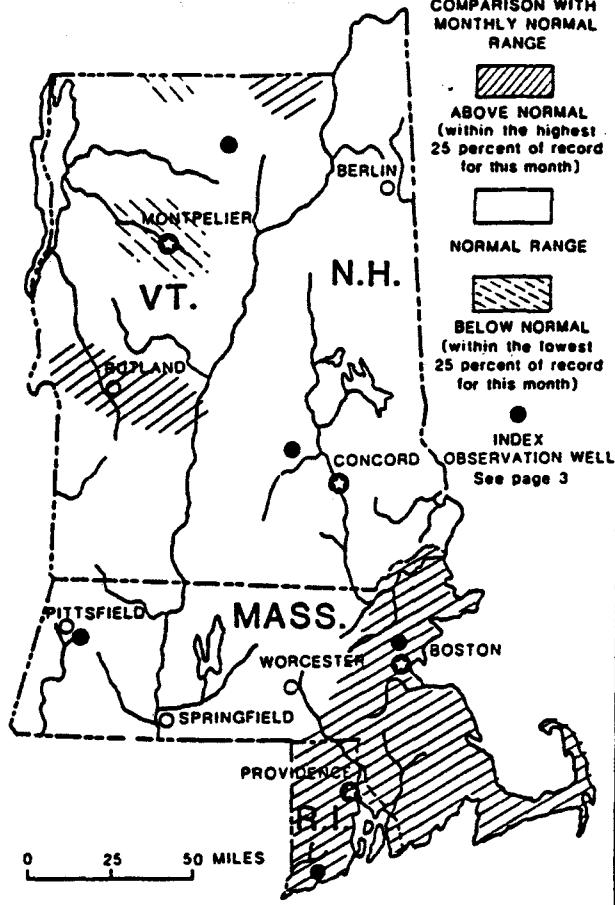
WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY
IN COOPERATION WITH THE STATES OF
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND AND VERMONT

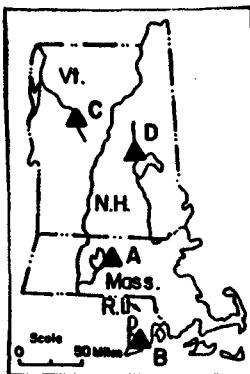


Surface-water Runoff
January 1987



Ground-water Levels
January 1987

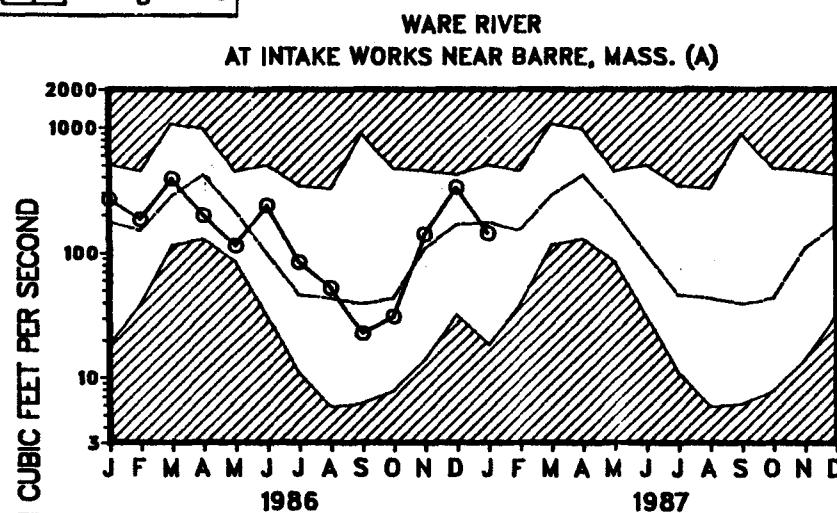




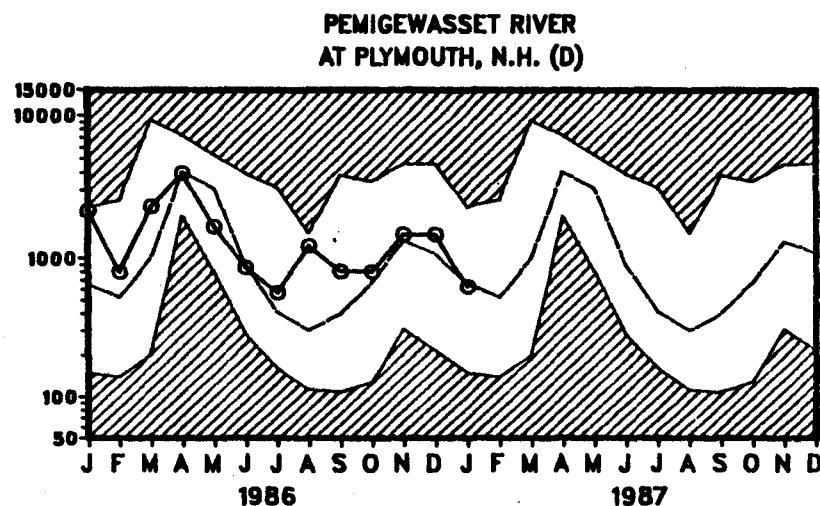
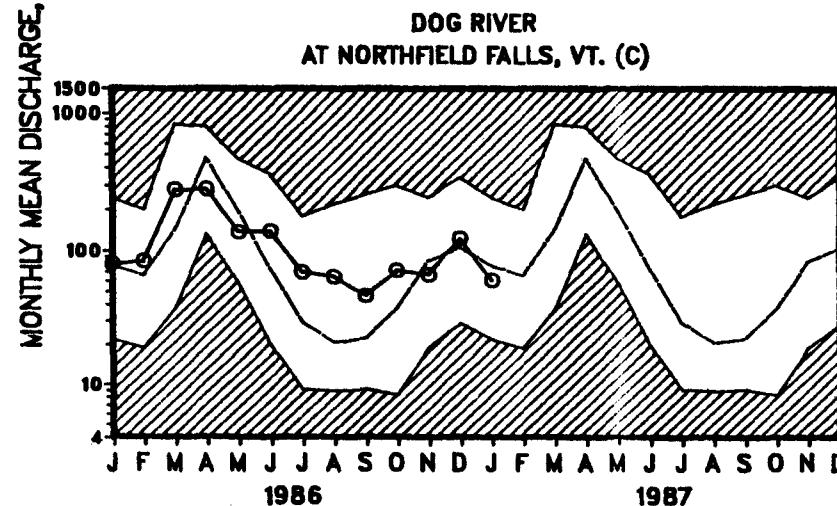
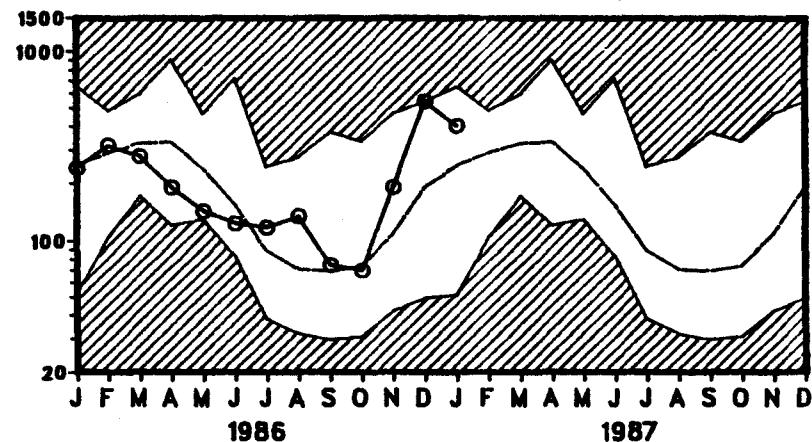
STREAMFLOW AT SELECTED INDEX GAGES

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

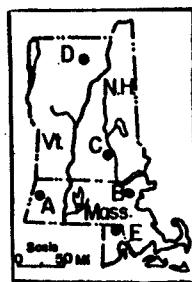
CURRENT RECORDS ————— MEDIAN —————



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

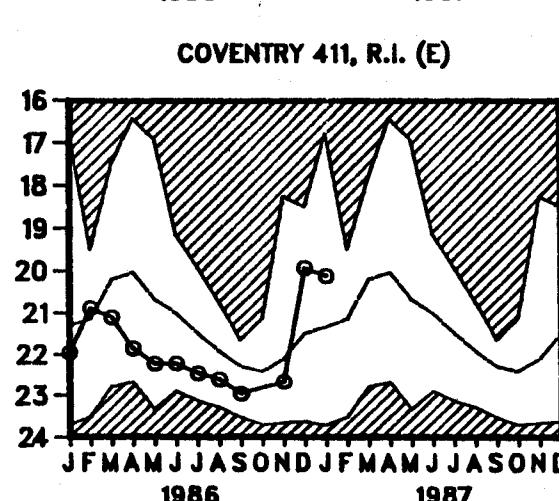
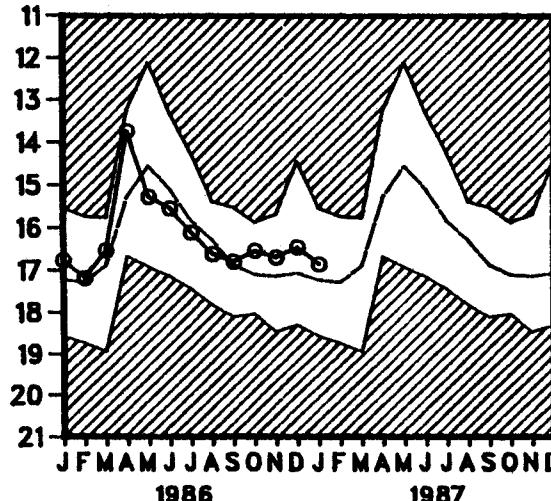
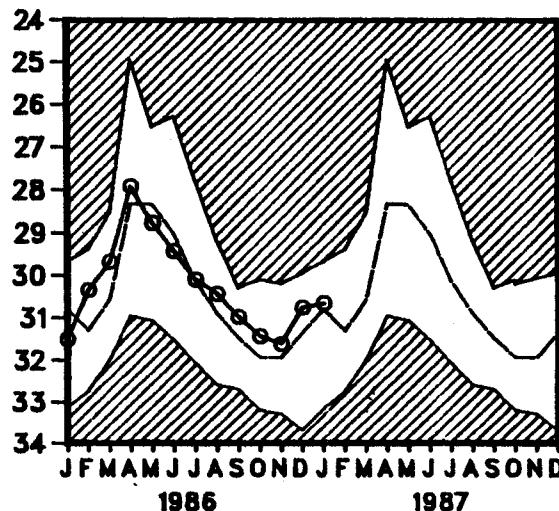
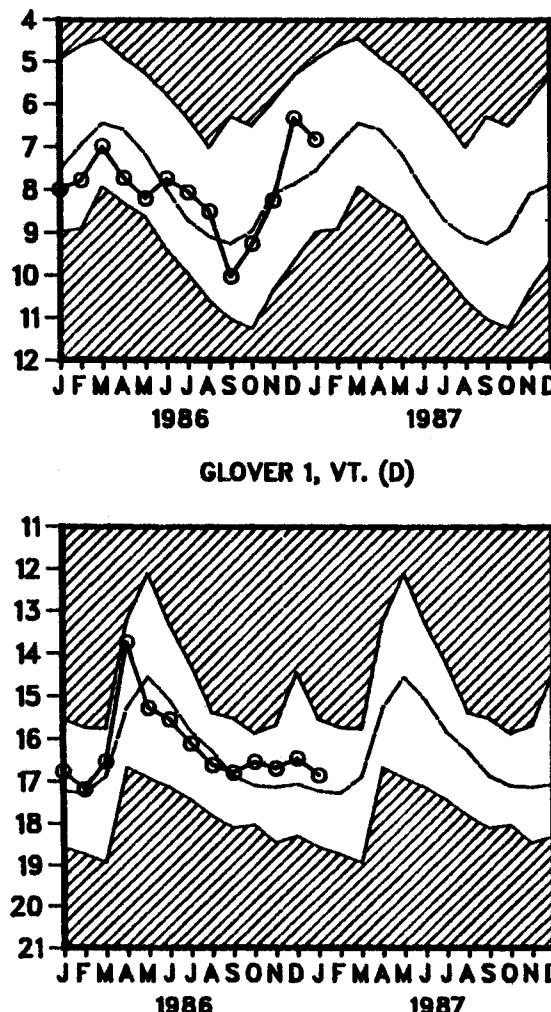
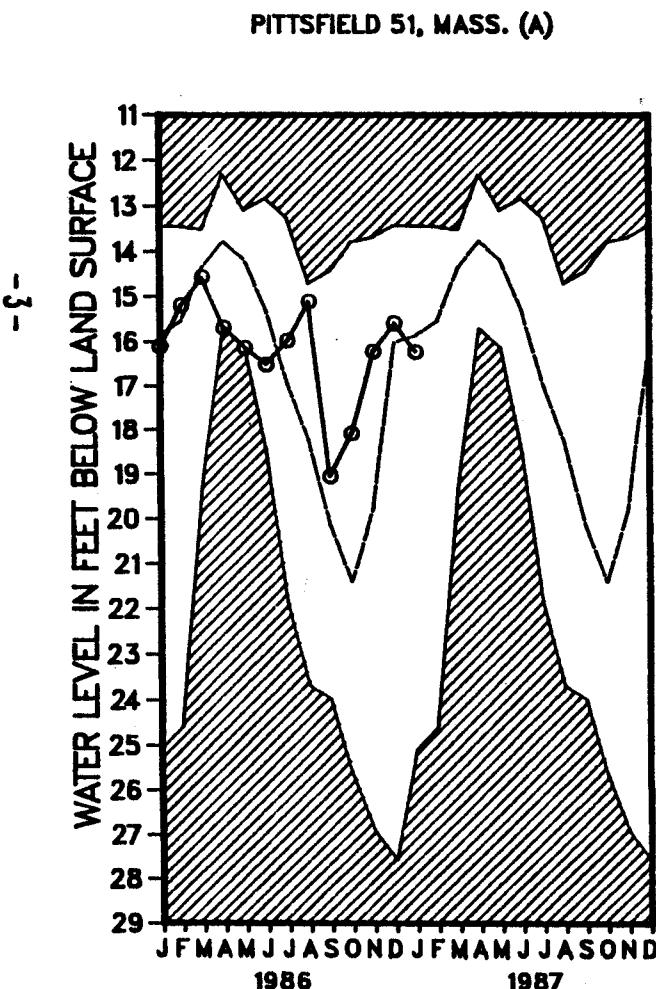


GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS



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

CURRENT RECORDS ————— MEDIAN —————



SUMMARY OF GROUND-WATER LEVELS			JANUARY, 1987			PROVISIONAL	
WELL	START OF RECORD	NET CHANGE IN MONTH IN ONE YEAR	DEPARTURE FROM JANUARY MEDIAN	WATER LEVEL BELOW LAND- SURFACE DATUM	(FEET)	(FEET)	DAY
MASSACHUSETTS							
ACTON 158	1965	+ 0.95	+ 0.76	+ 1.38	17.88	21	
ANDOVER 26	1962	- 2.04	+ 3.14	+ 0.04	9.46	25	
ANDOVER 462	1968	- 0.68	+ 0.41	+ 0.41	13.71	25	
ATTLEBORO 83	1964	- 0.76	+ 0.41	+ 0.18	3.39	24	
BARNSTABLE 230	1957	+ 1.22	+ 1.88	+ 1.12	22.68	22	
BARNSTABLE 247	1962	+ 1.38	+ 1.46	+ 1.00	23.58	22	
BILLERICA 363	1962	- 1.05	+ 2.29	+ 2.13	4.62	21	
BOSTON 925	1960	+ 0.50	- 0.55	+ 0.03	22.91	28	
BOURNE 198	1962	+ 2.99	+ 1.41	+ 1.76	31.69	23	
BREWSTER 21	1962						
BREWSTER 22	1962	+ 1.59	+ 1.42	+ 0.47	30.36	28	
CHATHAM 138	1962	+ 1.48	+ 2.37	+ 1.39	22.55	28	
CHELMSFORD 68	1939	- 1.79	+ 0.47	+ 0.63	7.58	21	
CHELMSFORD 385	1965	- 0.30	+ 0.77	+ 1.05	15.69	22	
CHESHIRE 2	1951	- 0.64	+ 1.84	+ 1.41	4.70	23	
CHICOPEE 95	1984	+ 0.46	- 0.49		22.59 >	24	
COLRAIN 8	1965	+ 1.49	+ 0.07	+ 1.55	18.81	22	
CONCORD 165	1965	+ 0.65	+ 0.66	- 0.53	42.30	21	
CONCORD 167	1965	- 0.26	+ 1.49	+ 1.37	5.95	22	
DEDHAM 231	1965	- 0.63	+ 2.69	+ 1.68	4.34	24	
DEERFIELD 44	1965	- 0.37	- 0.01	- 0.01	2.83	22	
DOVER 10	1965	+ 1.78	+ 1.83	+ 1.85	32.03	24	
DUXBURY 79	1965	- 0.11	+ 0.31	+ 0.53	7.36	24	
DUXBURY 80	1965	+ 0.22	+ 0.33	+ 0.74	20.55	24	
EAST BRIDGEWATER 30	1958	- 0.27	+ 7.03	+ 4.47	3.88	24	
EDGARTOWN 52	1976						
FOXBOROUGH 3	1965	- 0.30	+ 1.67	+ 0.79	18.02	24	
FREETOWN 23	1964	+ 0.84	+ 1.24	+ 0.96	12.66	24	
GEORGETOWN 168	1965	- 0.75	+ 0.63	+ 0.41	3.77	25	
GRANBY 68	1954	+ 0.18	- 0.03	+ 0.32	7.42	24	
GRANVILLE 5	1965	+ 0.53	+ 0.08	- 0.01	33.99	25	
GRANVILLE 6	1965	- 1.57	+ 0.06	+ 0.04	4.69	25	
GREAT BARRINGTON 2	1951	- 1.50	+ 1.59	+ 1.81	9.51	23	
HALIFAX 97	1977	- 0.24	+ 0.35	+ 0.44	3.17	24	
HANSON 76	1964	- 0.29	+ 0.74	+ 0.68	3.68	24	
HARDWICK 1	1965	- 0.42	+ 0.43	+ 0.07	14.74	21	
HARDWICK 31	1984	+ 0.05	+ 0.01		11.21 >	22	
HAVERHILL 23	1960	+ 0.89	+ 1.35	+ 1.45	10.69	25	
LAKEVILLE 14	1964	+ 3.23	+ 2.97	+ 1.29	15.11	24	
LEXINGTON 104	1965	- 0.29	+ 0.43	+ 0.71	2.03	21	
MASHPEE 29	1976						
MIDDLEBOROUGH 82	1965	+ 1.27	+ 6.20	+ 3.33	2.88	24	
MONTAGUE 5	1942	- 0.58	- 0.77	+ 0.30	3.06	22	

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

MASSACHUSETTS (CONTINUED)

NANTUCKET 228	1976	+ 1.50	+ 2.93	+ 2.14	23.85	22
NEW BEDFORD 116	1964	- 0.42	- 0.08	+ 0.41	3.55	24
NEWBURY 27	1965	- 0.28	+ 2.06	+ 2.04	4.31 >	25
NORFOLK 27	1965	- 0.64	+ 2.31	+ 1.39	4.84	24
NORTHBOROUGH 38	1962	- 3.19	—	+ 0.42	4.37	21
NORTHBRIDGE 1	1965	- 0.19	+ 0.43	- 1.28	4.39	21
NORTON 37	1964	- 2.02	+ 1.90	+ 1.21	5.56	24
ORANGE 63	1985	- 0.47	+ 0.67	—	7.27 >	24
OTIS 7	1965	- 0.83	- 0.10	- 0.24	8.65	25
PELHAM 23	1984	- 0.17	+ 0.26	—	11.02 >	22
PELHAM 24	1984	- 0.64	- 0.21	—	3.97	22
PETERSHAM 16	1984	- 2.14	+ 1.12	—	13.06 >	22
PITTSFIELD 51	1963	- 0.64	- 0.12	- 0.12	16.23	23
PLYMOUTH 22	1956	+ 1.56	+ 1.21	+ 0.48	24.49	24
SALISBURY 9	1960	- 0.59	+ 0.36	+ 0.69	4.12	25
SANDWICH 252	1962	+ 0.62	+ 0.74	+ 0.59	46.91	22
SANDWICH 253	1962	+ 0.89	+ 0.53	- 0.21	50.00	23
SEEKONK 275	1964	- 0.38	+ 0.28	+ 1.24	5.40	24
SHEFFIELD 59	1963	—	—	—	—	
STERLING 1	1947	- 0.01	- 0.01	+ 0.02	3.11	21
SUNDERLAND 7	1957	+ 2.84	+ 7.91	+ 2.62	13.92	22
TAUNTON 258	1976	- 0.30	+ 1.80	+ 1.13	11.07	24
TAUNTON 337	1964	- 0.34	—	+ 0.66	7.82	24
TEMPLETON 3	1957	- 0.78	- 0.13	- 0.07	3.67	21
TOPSFIELD 1	1936	- 0.01	+ 2.45	+ 2.45	7.95	25
TOWNSEND 13	1965	+ 0.74	+ 2.82	+ 1.77	12.17 >	21
TRURO 1	1950	+ 0.66	+ 0.81	+ 0.74	9.98	28
TRURO 89	1962	+ 0.77	+ 1.08	+ 0.82	11.23	28
WAKEFIELD 38	1965	- 0.44	+ 0.91	+ 0.74	5.93	21
WARE 43	1965	- 0.38	- 0.26	- 0.28	9.58	22
WAREHAM 51	1959	+ 1.32	+ 0.90	+ 0.05	7.19	24
WAYLAND 2	1965	- 0.15	+ 0.77	+ 0.62	15.78	21
WEBSTER 1	1958	+ 0.23	+ 1.41	+ 0.22	13.63	21
WELLFLEET 17	1962	—	—	—	—	
WENHAM 76	1965	- 0.11	- 0.03	+ 0.69	1.82	25
WEST BROOKFIELD 2	1959	—	—	—	—	
WEST BROOKFIELD 10	1970	- 0.09	- 0.64	- 0.64	5.55	21
WESTFIELD 62	1957	+ 2.00	+ 0.21	+ 0.60	6.88	24
WEYMOUTH 2	1965	+ 0.60	+ 8.04	+ 3.62	7.48	24
WEYMOUTH 3	1965	- 0.67	+ 0.96	+ 0.97	4.12	24
WEYMOUTH 4	1965	- 0.74	+ 1.07	+ 1.14	5.59	24
WILBRAHAM 55	1965	+ 0.39	- 3.02	- 1.24	43.36	24
WILMINGTON 78	1951	- 0.50	+ 1.17	+ 0.72	6.83	21
WINCHENDON 13	1939	- 1.44	+ 0.09	+ 0.13	5.10	21
WINCHESTER 14	1940	- 2.37	+ 3.74	+ 2.12	7.36	21
WORCESTER 274	1965	- 0.85	- 0.18	- 0.29	23.93	21

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

NEW HAMPSHIRE

CONCORD 2	1963	+ 0.18	- 0.60	- 2.24	42.19	28
CONCORD 3	1966	+ 0.31	+ 0.70	+ 0.21	56.99	28
CONCORD 4	1966	- 0.07	+ 0.63	+ 0.77	17.29	28
ERROL 1	1966	+ 0.0	+ 0.7	- 0.1	13.0	24
FRANKLIN 1	1966	+ 0.08	+ 1.56	+ 0.29	12.92	30
HOOKSETT 5	1965	+ 0.48	+ 0.83	+ 0.45	47.42	28
KEENE 2	1963	- 1.45	- 0.73	- 0.36	3.84	25
LANCASTER 1	1966	- 0.01	+ 0.01	- 0.46	1.99	27
LEE 1	1953	- 1.25	- 1.24	- 0.25	31.40	28
MILFORD 36	1962	- 0.94	- 0.02	+ 0.66	7.22	20
NASHUA 143	1958	- 0.17	+ 0.69	- 0.02	8.79	28
NASHUA 218	1964	+ 0.16	+ 0.36	+ 0.09	28.26	28
NEW LONDON 1	1947	- 1.42	- 0.40	+ 0.03	9.10	28
WARNER 1	1965	+ 0.11	+ 0.86	+ 0.40	30.65	28

RHODE ISLAND

BURRILLVILLE 187	1968	- 0.42	+ 1.66	+ 1.15	13.80	27
CHARLESTOWN 18	1946	- 0.60	+ 3.19	+ 3.51	14.44	24
COVENTRY 411	1961	- 0.19	+ 1.84	+ 1.21	20.12	24
CUMBERLAND 265	1946	- 1.51	+ 0.90	+ 0.86	11.28	24
EXETER 6	1948	- 0.66	+ 1.29	+ 1.36	4.31	24
EXETER 16	1946	+ 1.98	+ 3.48	+ 4.22	6.52 >	24
LINCOLN 84	1946	- 1.66	+ 1.20	+ 1.36	3.90	24
NORTH KINGSTOWN 255	1954	- 0.19	+ 1.70	+ 1.70	6.70	25
NORTH KINGSTOWN 450	1961	+ 0.42	+ 2.35	+ 1.58	10.95	25
NORTH SMITHFIELD 21	1947	- 1.38	+ 1.66	+ 0.68	6.68	24
PAWTUCKET 136	1962	- 0.32	+ 2.45	+ 1.52	3.49	24
PROVIDENCE 48	1944	—	—	—	—	—
PROVIDENCE 1051	1948	- 0.24	+ 0.87	+ 6.73	0.78	24
RICHMOND 231	1955	+ 1.35	+ 1.46	+ 1.46	23.57	24
RICHMOND 417	1976	- 0.51	+ 0.70	+ 0.39	6.01	27
RICHMOND 600	1977	- 0.13	+ 0.77	+ 0.77	32.93	24
SOUTH KINGSTOWN 6	1955	+ 0.37	+ 1.88	+ 1.88	9.89	24
SOUTH KINGSTOWN 515	1955	- 0.53	+ 1.54	+ 1.45	25.54	24
WESTERLY 522	1969	- 0.71	+ 1.49	+ 0.97	10.90	24
WEST GREENWICH 181	1969	- 1.35	+ 0.66	+ 0.30	15.22	24

WELL	START OF RECORD	NET CHANGE IN MONTH		IN ONE YEAR	DEPARTURE FROM JANUARY MEDIAN	WATER LEVEL BELOW LAND- SURFACE DATUM	(FEET)	(FEET)	(FEET)	DAY
VERMONT										
BERKSHIRE 1	1966	-	0.61	-	1.95	-	0.81	14.44	26	
BRIGHTON 1	1966	-	0.17	+	0.54	+	0.57	3.50	26	
CHESTER 1	1966	+	0.21	-	0.18	+	0.26	4.67	22	
GLOVER 1	1966	-	0.40	-	0.09	+	0.26	16.86	26	
HARTLAND 54	1969	+	0.56	+	0.24	+	0.48	8.11	22	
MIDDLESEX 3	1966	+	0.42	-	1.81	-	0.63	21.80	26	
MILTON 3	1956	-	0.57	+	2.54	+	0.91	33.71	26	
MONTPELIER 2	1966	-	0.51	-	1.39	-	0.52	16.36	<	26
MORRISTOWN 1	1966	+	0.18	-	1.09	-	0.25	18.95	26	
PITTSFORD 8	1957	-	0.10	+	0.80	+	1.12	35.57	22	
POWNAL 1	1964	-	0.67	-	0.46	+	0.01	13.75	24	
ROCHESTER 1	1966	-	0.73	-	2.83	-	0.46	11.18	22	
WAITSFIELD 2	1975	+	0.27	-	1.37	-	0.20	6.74	22	
WAITSFIELD 3	1975	-	0.15	-	1.97	-	0.35	6.75	22	
WEST FAIRLEE 1	1966	-	0.35	-	0.36	-	0.28	4.30	22	

> SET NEW HIGH OR EQUALS HIGHEST RECORDED WATER LEVEL FOR END OF JANUARY
 >> SET NEW HIGH OR EQUALS HIGHEST RECORDED WATER LEVEL FOR PERIOD OF RECORD
 < SET NEW LOW OR EQUALS LOWEST RECORDED WATER LEVEL FOR END OF JANUARY
 << SET NEW LOW OR EQUALS 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	1365	113	41
LAKE FRANCIS, NH	1963	89	45
LAKE WINNIPESAUKEE, NH	4470	107	62
SOMERSET RESERVOIR, VT	1610	108	64
HARRIMAN RESERVOIR, VT	2254	95	44
BORDEN BROOK + COBBLE MTN RES., MA	2591	110	76

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