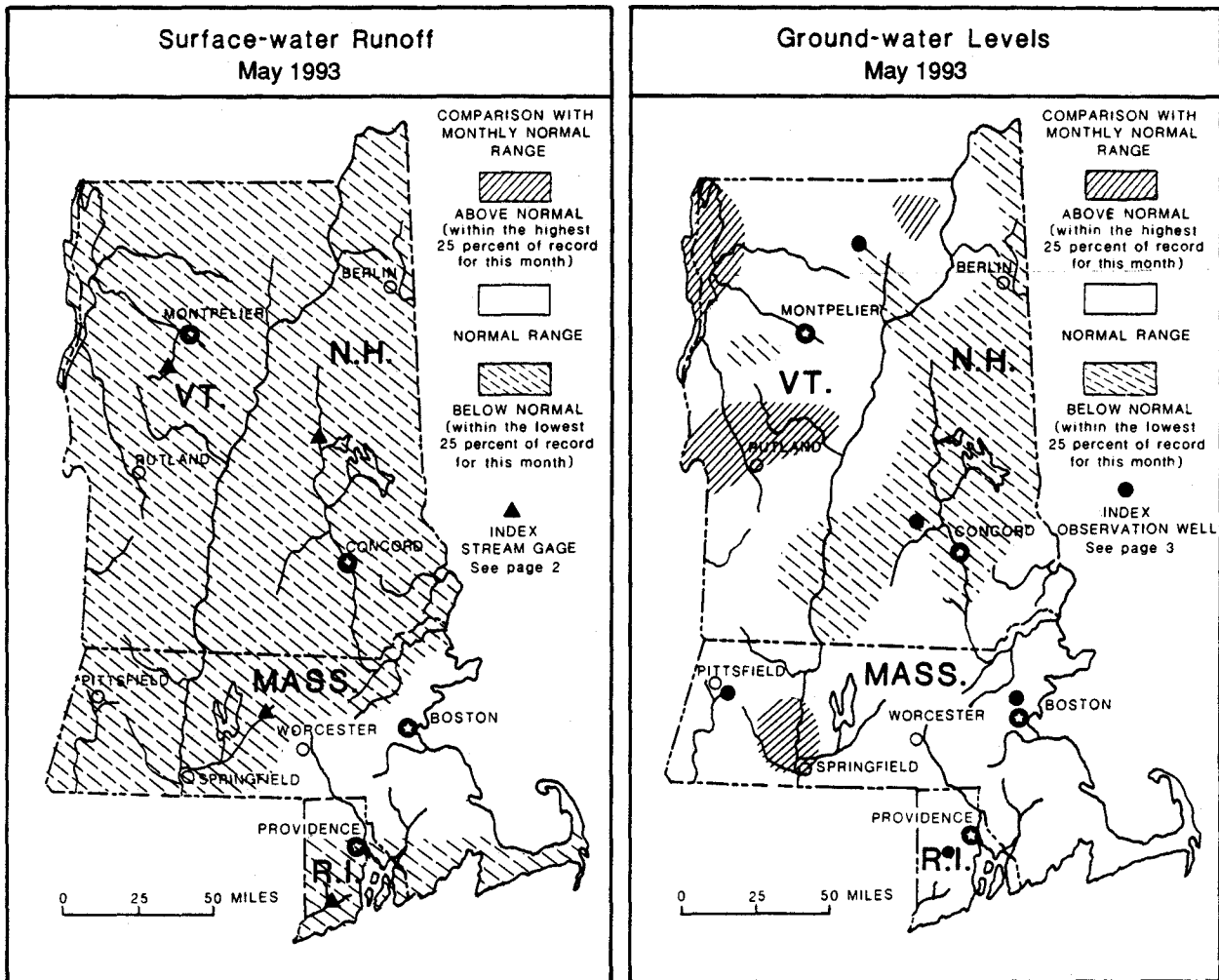


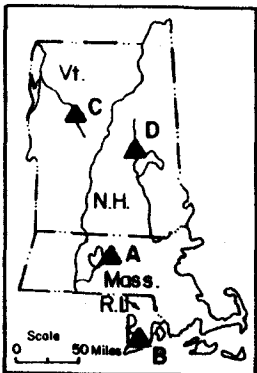
# CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND



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



Streamflow was generally below normal except for northern Rhode Island and some parts of eastern Massachusetts, which were in the normal range. Ground-water levels for May were generally normal for all of Rhode Island and most of Massachusetts, the exception being a small pocket in southwestern Massachusetts, which had above normal water levels.

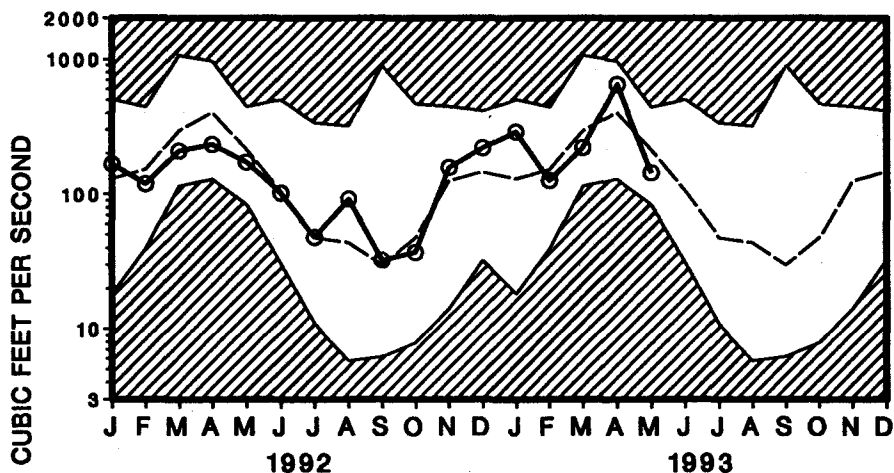


# STREAMFLOW AT SELECTED INDEX GAGES

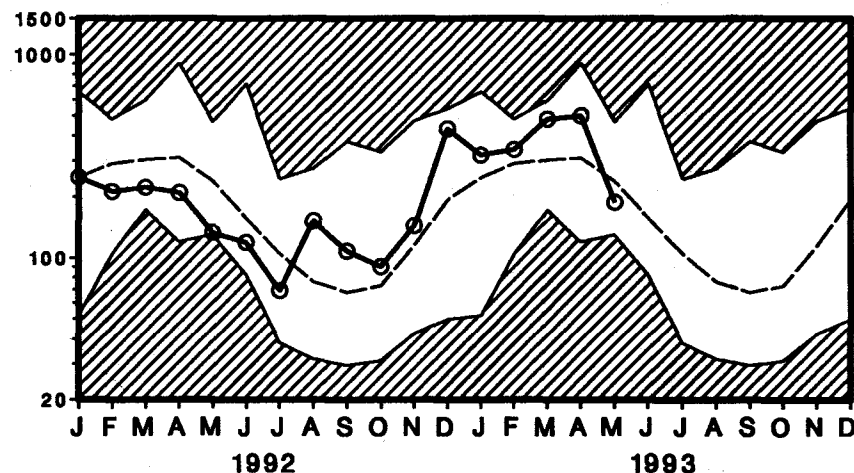
UNSHADED AREA SHOWS RANGE  
BETWEEN HIGHEST AND LOWEST  
MONTHLY MEAN DISCHARGE OF RECORD

CURRENT RECORDS ——— MEDIAN - - - - -

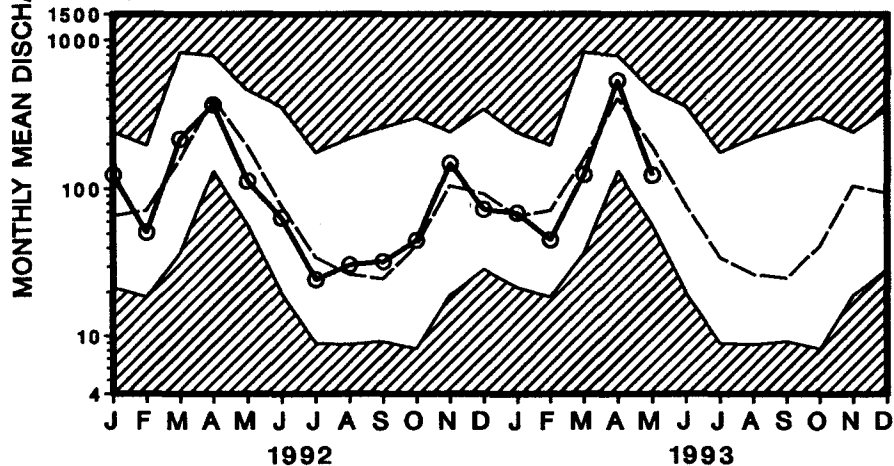
**WARE RIVER**  
AT INTAKE WORKS NEAR BARRE, MASS. (A)



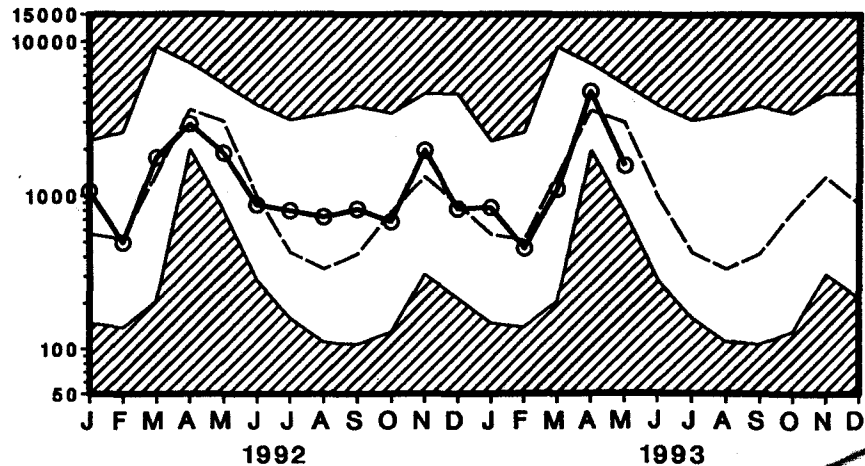
**PAWCATUCK RIVER**  
AT WOOD RIVER JUNCTION, R.I. (B)



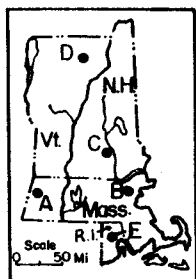
**DOG RIVER**  
AT NORTHFIELD FALLS, VT. (C)



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



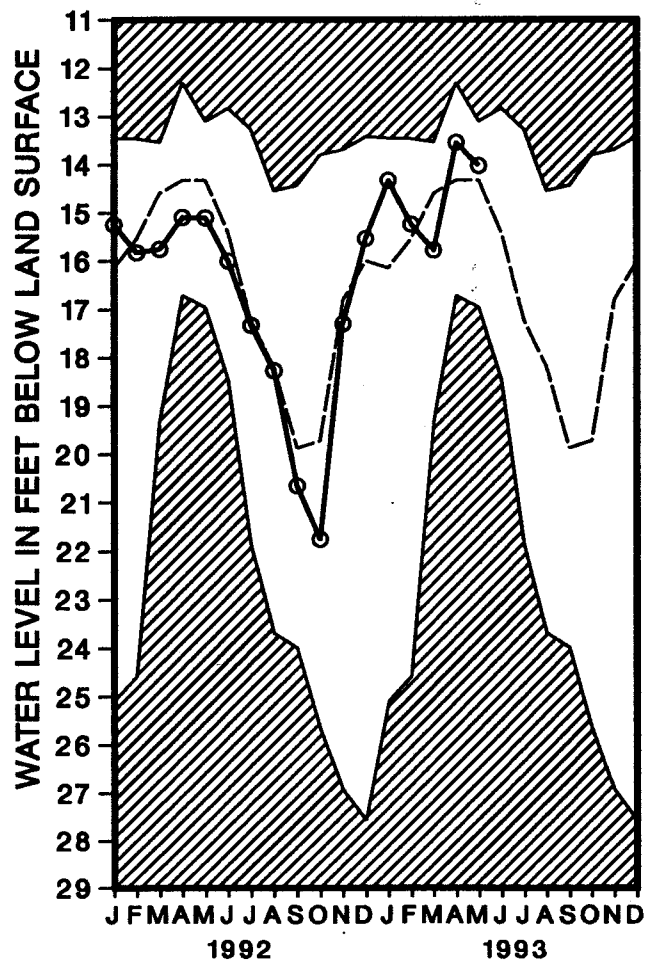
# GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS



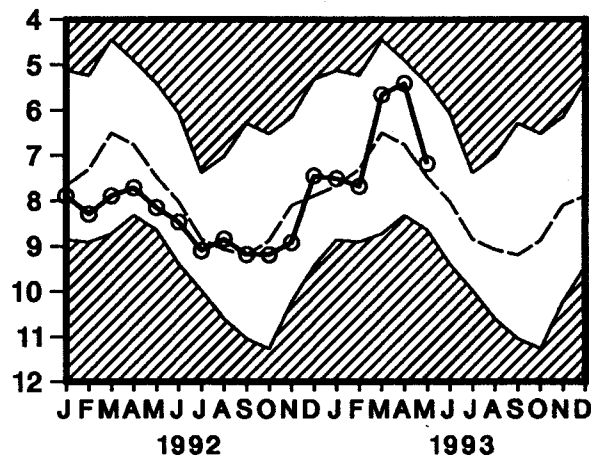
UNSHADED AREA SHOWS RANGE  
BETWEEN HIGHEST AND LOWEST  
MONTH-END WATER LEVEL

CURRENT RECORDS ——— MEDIAN - - - - -

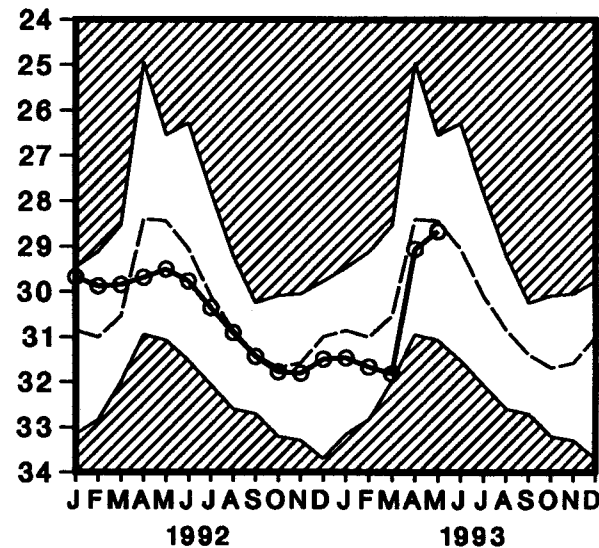
PITTSFIELD 51, MASS. (A)



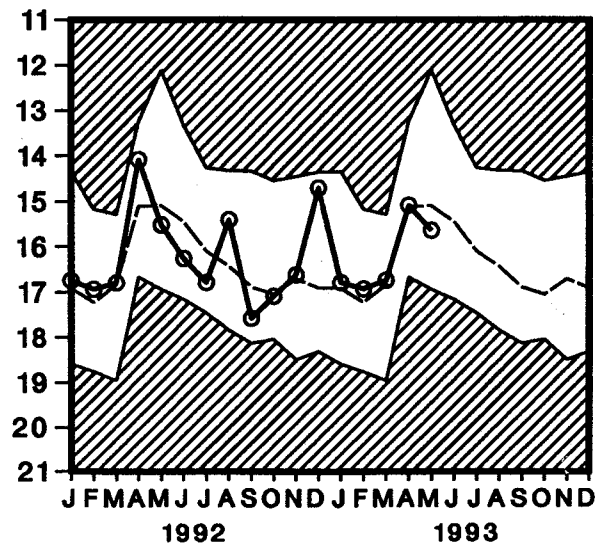
WILMINGTON 78, MASS. (B)



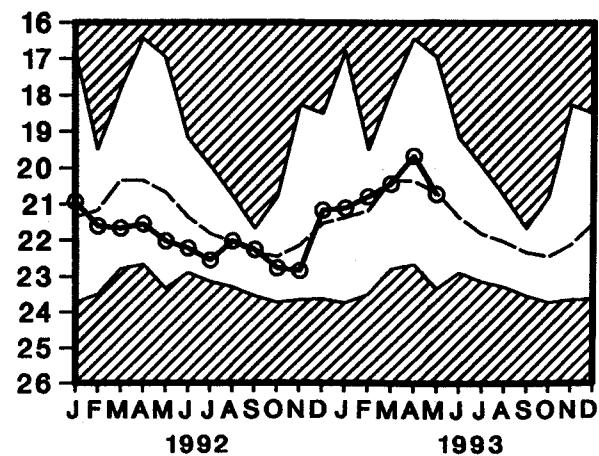
WARNER 1, N.H. (C)



GLOVER 1, VT. (D)



COVENTRY 411, R.I. (E)



**SUMMARY OF GROUND-WATER LEVELS**

**MAY, 1993**

**PROVISIONAL**

WELL	L T I O T P H O O	START OF RECORD	NET CHANGE		DEPARTURE FROM MAY MEDIAN	WATER LEVEL BELOW LAND- SURFACE DATUM	DAY
			IN MONTH (FEET)	IN ONE YEAR (FEET)			
MASSACHUSETTS							
ACTON 158	T S	1965	- 0.50	+ 0.89	+ 0.28	17.59	27
ANDOVER 462	V S	1968	- 1.50	- 6.22	- 6.62	20.76	<< 25
ATTLEBORO 83	V S	1964	- 0.55	- 0.31	- 0.13	3.76	24
BARNSTABLE 230	F S	1957	- 0.25	+ 3.27	+ 0.37	22.58	23
BARNSTABLE 247	F S	1962	+ 0.23	+ 3.51	+ 1.11	22.76	23
BECKET 12	T S	1986	- 0.56	+ 0.17	+ 0.19	3.53	22
BILLERICA 363	H S	1962	- 3.63	- 0.23	- 0.75	5.98	27
BLANDFORD 9	V S	1986	- 0.90	- 0.50	- 0.50	2.95	< 22
BOSTON 925	S R	1960	+ 0.10	+ 0.92	+ 0.47	22.50	26
BOURNE 198	F S	1962	- 0.32	+ 2.11	+ 1.01	31.57	25
BREWSTER 21	F S	1962	+ 0.43	+ 2.10	- 0.78	10.12	24
BREWSTER 22	F S	1962	+ 0.25	+ 2.23	+ 0.10	29.95	24
CHATHAM 138	F S	1962	+ 0.07	+ 1.77	+ 0.58	22.74	24
CHELMSFORD 68	T S	1939	- 1.92	- 0.61	- 0.19	7.80	27
CHELMSFORD 384	T S	1987	- 0.48	+ 0.80	+ 0.58	14.90	27
CHESHIRE 2	H T	1951	- 3.75	- 0.26	- 1.81	4.97	21
CHICOPEE 95	T S	1984	+ 0.07	+ 0.79	+ 1.26	20.05	22
COLRAIN 8	V S	1965	- 0.91	+ 0.20	+ 0.28	17.30	21
CONCORD 165	T S	1965	+ 0.41	+ 1.58	+ 0.86	40.15	27
CONCORD 167	T S	1965	- 1.92	+ 0.36	+ 0.08	6.56	27
CUMMINGTON 13	V S	1986	- 2.53	- 0.01	- 0.20	4.63	22
DEDHAM 231	S T	1965	- 2.51	- 1.51	- 0.79	6.61	24
DEERFIELD 44	V S	1965	- 0.44	+ 0.02	- 0.17	2.89	23
DOVER 10	T S	1965	- 0.79	+ 1.52	+ 0.66	31.45	24
DUXBURY 79	V S	1965	- 1.67	- 0.51	- 0.76	9.04	< 24
DUXBURY 80	V R	1965	- 0.87	+ 0.50	+ 0.18	21.59	24
EAST BRIDGEWATER 30	H T	1958	- 2.31	+ 2.84	+ 0.78	5.96	25
EDGARTOWN 52	V S	1976	+ 0.48	+ 2.38	+ 1.06	16.47	26
FOXBOROUGH 3	T S	1965	- 0.76	+ 0.88	- 0.06	18.46	24
FREETOWN 23	T S	1964	- 0.51	+ 1.91	+ 0.81	12.17	24
GEORGETOWN 168	V S	1965	- 1.39	+ 0.36	- 0.14	4.46	25
GRANBY 68	V S	1954	- 1.03	+ 0.62	+ 0.42	6.48	22
GRANVILLE 5	T S	1965	+ 0.69	+ 1.41	+ 1.01	31.06	21
GRANVILLE 6	S S	1965	- 3.06	- 0.32	- 1.30	5.63	21
GREAT BARRINGTON 2	V T	1951	- 3.11	+ 0.55	+ 0.71	9.46	21
HALIFAX 97	V R	1977	- 0.65	+ 0.46	+ 0.23	3.48	25
HANSON 76	V S	1964	- 0.54	- 0.26	- 0.36	4.91	25
HARDWICK 1	T S	1965	- 2.82	+ 0.01	- 0.38	13.77	21
HARDWICK 31	T S	1984	- 0.49	+ 0.28	+ 0.25	10.80	22
HAVERHILL 23	T S	1960	- 1.67	+ 2.28	+ 1.29	9.48	25
HAWLEY 8	S T	1986	- 0.68	+ 0.23	+ 0.34	3.46	22
LAKEVILLE 14	T S	1964	- 1.33	+ 3.33	+ 1.91	11.90	24
LEXINGTON 104	V S	1965	- 0.97	+ 0.08	+ 0.04	2.47	27
MASHPEE 29	F S	1976	- 0.22	+ 1.04	+ 1.04	6.90	25
MIDDLEBOROUGH 82	V T	1965	- 2.15	+ 2.80	+ 1.43	5.72	25
MONTAGUE 5	S S	1942	- 0.77	- 0.06	+ 0.52	2.04	23
MONTGOMERY 19	S S	1986	- 0.71	+ 0.24	+ 0.27	0.78	22

WELL	L T O P P O	START I F R E C O R D	NET CHANGE		DEPARTURE FROM MAY MEDIAN (FEET)	WATER LEVEL BELOW LAND- SURFACE DATUM (FEET)	DAY
			IN MONTH (FEET)	IN ONE YEAR (FEET)			
MASSACHUSETTS (CONTINUED)							
NANTUCKET 228	F	S	1976	+ 0.48	+ 3.02	+ 2.09	22.42 24
NEW BEDFORD 116	V	S	1964	- 0.27	+ 0.24	- 0.21	4.22 24
NEWBURY 27	V	T	1965	- 1.93	+ 1.11	+ 1.08	5.01 25
NORFOLK 27	V	S	1965	- 0.47	- 0.46	+ 0.16	5.92 24
NORTHBRIDGE 54	V	S	1984	- 0.51	+ 0.33	+ 0.22	3.92 21
NORTON 37	F	S	1964	- 2.01	+ 0.70	- 0.18	7.46 24
ORANGE 63	T	S	1985	- 0.36	+ 0.18	- 0.19	6.79 23
OTIS 7	V	S	1965	- 2.61	+ 0.26	- 0.06	7.97 21
PELHAM 23	S	R	1984	- 1.40	- 0.04	- 0.30	12.50 23
PELHAM 24	S	S	1984	- 1.61	+ 0.05	- 0.36	3.93 23
PETERSHAM 16	S	T	1984	- 6.15	- 0.12	- 0.22	13.37 22
PITTSFIELD 51	V	S	1963	- 0.48	+ 1.08	+ 0.30	14.02 21
PLYMOUTH 22	T	S	1956	+ 0.21	+ 2.76	+ 0.76	22.24 25
PLYMOUTH 494	S	S	1985	+ 0.31	+ 2.18	-----	29.41 > 25
SANDWICH 252	F	S	1962	+ 0.06	+ 1.46	+ 0.82	46.11 25
SANDWICH 253	F	S	1962	+ 0.39	+ 3.07	- 0.50	49.75 25
SEEKONK 275	V	S	1964	- 0.46	+ 0.14	+ 0.25	6.32 24
SHEFFIELD 58	F	S	1987	+ 0.17	+ 0.80	+ 0.80	12.02 21
SOUTHBOROUGH 12	H	T	1990	- 5.08	- 0.72	-----	6.95 27
SOUTHWICK 95	T	S	1986	- 0.72	+ 0.80	+ 0.01	2.08 21
STERLING 1	S	T	1947	- 0.82	- 0.52	- 0.49	3.75 21
SUNDERLAND 7	S	S	1957	- 2.13	+ 1.06	- 1.07	11.50 23
SUNDERLAND 68	V	S	1983	- 1.17	+ 0.09	+ 0.09	2.80 23
TAUNTON 337	T	S	1964	- 0.97	+ 0.84	+ 0.25	8.38 24
TEMPLETON 3	V	S	1957	- 0.92	- 0.68	- 0.18	3.74 21
TOPSFIELD 1	H	T	1936	- 3.49	- 0.03	- 0.27	11.24 25
TOWNSEND 13	T	S	1965	-----	+ 0.78	+ 0.11	11.95 27
TRURO 1	T	S	1950	- 0.29	+ 0.67	+ 0.57	10.08 24
TRURO 89	T	S	1962	- 0.18	+ 0.92	+ 0.72	11.17 24
WAKEFIELD 38	F	S	1965	- 1.35	- 0.37	- 0.14	6.57 27
WARE 43	V	S	1965	- 0.72	+ 0.98	+ 1.31	7.62 22
WAREHAM 51	T	S	1959	- 0.46	+ 2.60	- 0.70	7.04 24
WAYLAND 2	T	S	1965	- 0.94	+ 0.51	- 0.12	15.48 24
WEBSTER 1	H	S	1958	- 1.48	- 0.11	- 0.70	13.79 21
WELLFLEET 17	V	S	1962	+ 0.33	+ 1.60	+ 0.82	8.93 24
WENHAM 76	V	S	1965	- 0.99	+ 0.53	- 0.40	2.62 25
WEST BROOKFIELD 2	T	S	1959	+ 0.13	- 0.15	+ 0.81	17.96 21
WEST BROOKFIELD 10	S	T	1970	- 1.66	+ 0.22	- 0.16	4.48 21
WESTHAMPTON 20	S	S	1986	+ 1.07	+ 4.89	+ 4.44	4.55 >> 22
WESTFIELD 62	S	S	1957	- 0.79	+ 1.14	+ 0.80	5.82 22
WESTFIELD 152	T	S	1986	- 0.26	+ 0.18	+ 0.15	3.59 22
WEYMOUTH 2	F	T	1965	- 1.98	+ 2.77	+ 1.03	8.07 24
WEYMOUTH 3	V	S	1965	- 0.17	+ 1.44	+ 0.58	4.21 24
WEYMOUTH 4	T	S	1965	- 1.41	+ 0.38	+ 0.00	6.73 24
WILBRAHAM 55	T	S	1965	- 4.12	+ 3.00	+ 1.76	34.95 22
WILMINGTON 78	F	S	1951	- 1.77	+ 0.97	+ 0.29	7.18 27
WINCHENDON 13	S	T	1939	- 1.79	- 0.29	- 0.48	4.89 21
WINCHESTER 14	S	T	1940	- 3.72	- 0.50	- 1.52	11.52 27
WORCESTER 274	T	S	1965	- 0.13	+ 0.23	- 0.16	23.53 21

WELL	L T I O T P H O O	START OF RECORD YEAR	NET CHANGE		DEPARTURE FROM MAY MEDIAN (FEET)	WATER LEVEL BELOW LAND- SURFACE DATUM (FEET)	DAY
			IN MONTH (FEET)	IN ONE YEAR (FEET)			
NEW HAMPSHIRE							
CONCORD 2	T S	1963	- 0.11	- 1.22	- 3.09	43.20	24
CONCORD 4	F S	1966	- 0.14	- 0.61	- 1.48	17.47	24
ERROL 1	V S	1966	- 1.0	- 0.1	- 1.0	12.7	< 22
FRANKLIN 1	V S	1966	+ 0.46	- 1.19	- 2.41	13.02	24
HOOKSETT 5	T R	1965	- 0.61	+ 0.94	- 1.28	47.52	24
KEENE 2	V S	1963	- 2.83	- 0.09	- 0.56	3.99	23
LANCASTER 1	V S	1966	- 1.25	+ 0.28	- 0.30	1.53	20
LEE 1	F S	1953	- 0.52	+ 0.23	+ 0.01	30.72	24
MILFORD 36	V S	1962	- 1.25	- 0.10	+ 0.87	7.15	22
NASHUA 218	T S	1964	- 0.52	+ 0.34	+ 0.29	27.24	24
NEW LONDON 1	S T	1947	- 3.90	- 0.27	- 1.40	7.78	24
WARNER 1	T S	1965	+ 0.39	+ 0.84	- 0.23	28.67	24
RHODE ISLAND							
BURRILLVILLE 187	T S	1968	- 0.63	+ 0.20	- 1.01	14.87	25
BURRILLVILLE 395	U T	1992	-----	-----	-----	-----	--
BURRILLVILLE 396	V T	1992	-----	-----	-----	-----	--
BURRILLVILLE 397	H T	1992	-----	-----	-----	-----	--
BURRILLVILLE 398	H T	1992	-----	-----	-----	-----	--
CHARLESTOWN 18	F S	1946	- 2.07	+ 2.10	+ 0.75	15.85	25
CHARLESTOWN 586	V T	1992	-----	-----	-----	-----	--
CHARLESTOWN 587	S T	1992	-----	-----	-----	-----	--
COVENTRY 342	V S	1991	- 2.05	+ 0.26	- 0.32	9.16	25
COVENTRY 411	S S	1961	- 1.04	+ 1.30	- 0.04	20.71	26
COVENTRY 466	V T	1992	-----	-----	-----	-----	--
CRANSTON CITY 439	S T	1992	-----	-----	-----	-----	--
CUMBERLAND 265	S S	1946	- 1.73	+ 0.08	- 0.21	12.87	25
EXETER 6	V S	1948	- 1.51	+ 0.71	+ 0.19	5.23	25
EXETER 158	S T	1991	- 3.37	+ 1.62	- 0.15	8.98	25
EXETER 238	F T	1991	- 0.88	+ 0.17	- 0.03	12.17	26
EXETER 278	H T	1991	- 4.02	+ 0.86	- 1.03	11.79	26
EXETER 475	V S	1981	- 1.02	+ 1.36	+ 0.66	13.00	25
EXETER 554	S S	1988	- 0.89	+ 0.44	-----	9.69	26
FOSTER 40	H T	1991	- 3.13	- 0.07	- 1.18	6.14	25
FOSTER 290	H T	1992	-----	-----	-----	-----	--
HOPKINTON 67	S T	1991	- 2.94	+ 2.04	- 0.16	14.79	25
LINCOLN 84	V S	1946	- 1.64	+ 0.17	- 0.49	5.29	25
LITTLE COMPTON 142	S T	1992	-----	-----	-----	-----	--
NEW SHOREHAM 258	U T	1991	-----	-----	-----	-----	--
NORTH KINGSTOWN 255	V S	1954	- 1.31	+ 1.29	+ 0.06	7.50	25
NORTH SMITHFIELD 21	T S	1947	- 1.47	+ 0.27	- 0.32	7.85	25
PAWTUCKET 136	T S	1962	- 0.83	+ 1.47	+ 0.72	3.36	25
PORTSMOUTH 551	H T	1992	-----	-----	-----	-----	--
PROVIDENCE 48	T S	1944	- 0.54	+ 0.89	+ 2.82	3.69	25
RICHMOND 417	V S	1976	- 0.80	+ 0.26	- 0.19	6.69	26
RICHMOND 600	T S	1977	- 0.65	+ 0.57	+ 0.10	33.26	25
RICHMOND 785	F S	1989	- 0.54	+ 2.67	-----	21.46	> 25
SOUTH KINGSTOWN 6	V S	1955	- 1.33	+ 1.48	+ 0.78	10.77	26
SOUTH KINGSTOWN 515	U S	1955	- 1.27	+ 0.73	- 0.11	26.74	26
TIVERTON 274	T T	1990	-----	-----	-----	-----	--
WARWICK 59	S T	1991	- 1.45	- 0.05	- 0.62	5.97	< 26
WESTERLY 522	F S	1969	- 0.98	+ 0.58	- 0.45	12.21	25
WEST GREENWICH 181	U S	1969	- 1.13	+ 0.09	- 0.19	15.95	25
WEST GREENWICH 206	S T	1991	- 0.74	+ 0.14	- 0.23	4.31	26

WELL	L T O P O	START I R E C O R D	NET CHANGE		DEPARTURE FROM MAY MEDIAN (FEET)	WATER LEVEL BELOW LAND- SURFACE DATUM (FEET)	DAY	
			IN MONTH (FEET)	IN ONE YEAR (FEET)				
VERMONT								
BERKSHIRE 1	V	S	1966	- 3.48	+ 0.67	- 0.37	14.03	25
BRIGHTON 1	V	S	1966	- 0.37	+ 1.04	+ 1.16	2.27	> 24
CHESTER 1	V	S	1966	- 2.65	- 0.32	- 0.56	5.27	25
GLOVER 1	T	S	1966	- 0.55	- 0.12	- 0.54	15.63	25
HARTLAND 54	V	S	1969	- 1.09	+ 0.57	- 0.02	7.92	24
MILTON 3	T	S	1956	+ 3.43	+ 3.99	+ 3.99	25.75	25
MONTPELIER 2	V	S	1966	- 2.20	+ 0.00	- 0.23	14.45	25
MORRISTOWN 1	S	S	1966	- 0.77	+ 0.25	- 0.32	18.54	25
PITTSFORD 8	T	S	1957	----	----	----	----	--
POWNAI 1	V	S	1964	- 3.07	+ 0.13	+ 0.29	13.16	23
ROCHESTER 1	V	S	1966	+ 1.24	+ 3.86	+ 2.50	6.94	24
WAITSFIELD 2	V	S	1975	- 1.80	+ 0.35	+ 0.04	6.44	28
WAITSFIELD 3	V	S	1975	- 2.77	- 1.34	- 1.01	7.30	< 28
WEST FAIRLEE 1	T	S	1966	- 0.50	+ 2.50	+ 1.55	1.03	24

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

TOPOGRAPHIC (TOPO) SETTING: F=FLAT, H=HILLTOP, S=HILLSIDE, T=TERRACE,  
 U=UNDULATING, V=VALLEY, W=UPLAND DRAW  
 LITHOLOGY (LITHO): G=GRAVEL, R=ROCK, S=SAND, T=TILL

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

RESERVOIR	MONTH-END CONTENTS	% AVERAGE	% FULL
FIRST CONNECTICUT LAKE, NH	3143	109	94
LAKE FRANCIS, NH	4108	114	95
LAKE WINNIPESAUKEE, NH	6260	85	87
SOMERSET RESERVOIR, VT	2109	97	84
HARRIMAN RESERVOIR, VT	4188	96	83
BORDEN BROOK + COBBLE MTN RES., MA	2964	97	87

A MONTHLY REPORT PREPARED BY THE  
 U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION  
 28 LORD ROAD, SUITE 280, MARLBOROUGH, MA 01752

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