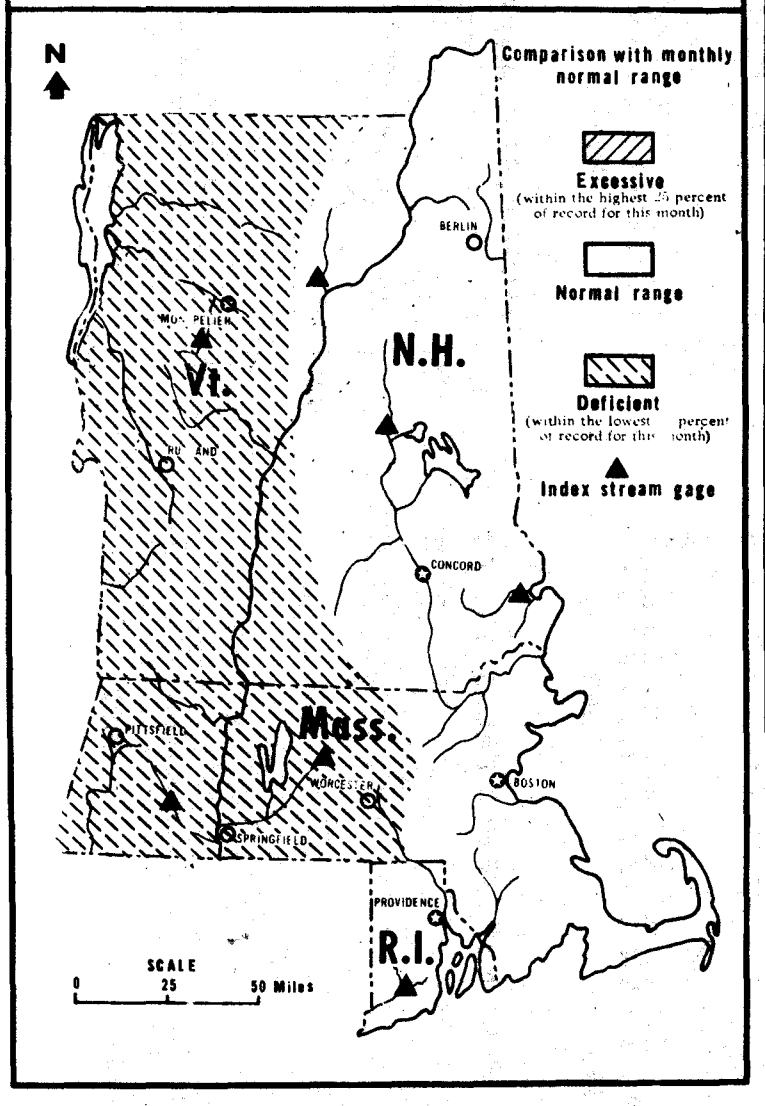
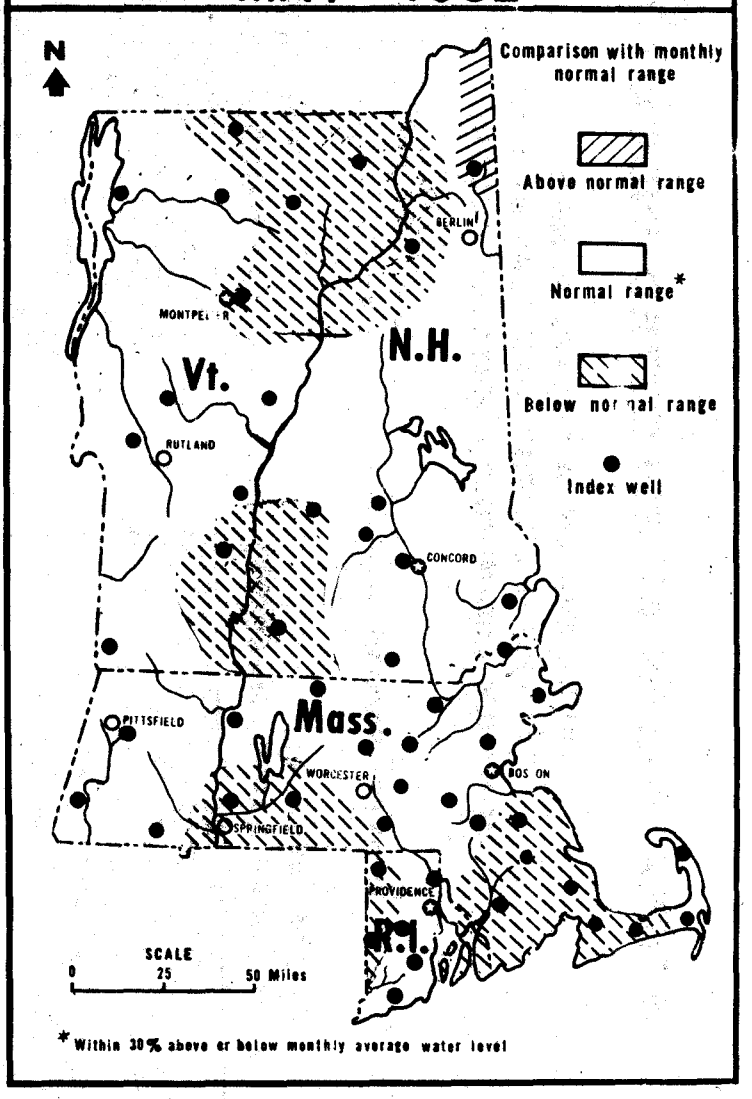
CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND

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

SURFACE-WATER RUNOFF MAY 1982



GROUND-WATER LEVELS MAY 1982

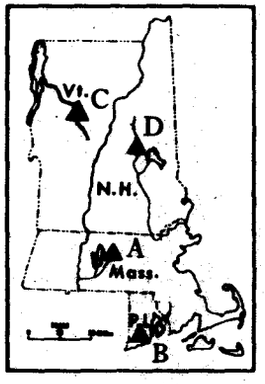


Runoff was in the normal range in Rhode Island, eastern Massachusetts, and most of New Hampshire, and in the deficient range in Vermont and western Massachusetts. With normal precipitaton during June, runoff is expected to be in the low normal or deficient range throughout central New England.

Ground-water levels in most wells declined seasonally and ranged from above normal to below normal as shown on the map above. If present trends continue, water levels near the end of June are expected to be in the normal range.

Storage in major reservoirs increased in northern New Hampshire and showed mixed trends elsewhere and ranged from about 91 to 109 percent of average for the end of May. Total contents of all index reservoirs was about 107 percent of that of a year ago.

STREAMFLOW AT SELECTED INDEX GAGES

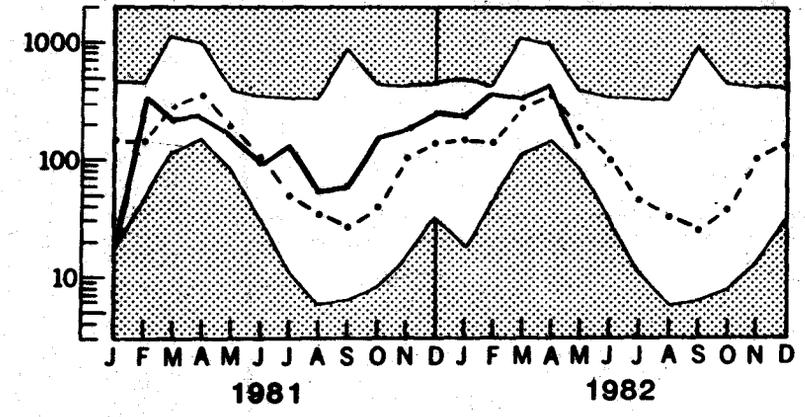


UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTHLY MEAN DISCHARGES OF RECORD

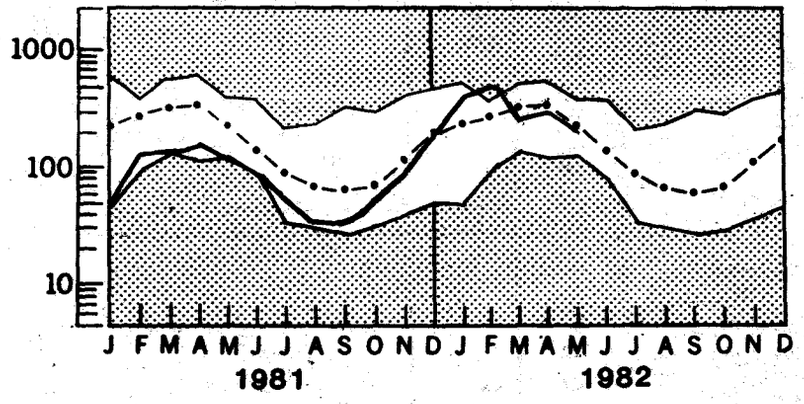
CURRENT RECORD ——— MEDIAN -·-·-·-

MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND

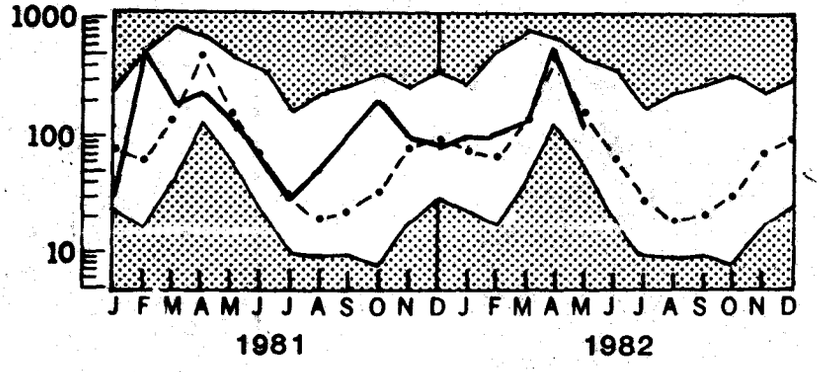
WARE RIVER AT
INTAKE WORKS NEAR BARRE, MASS. (A)



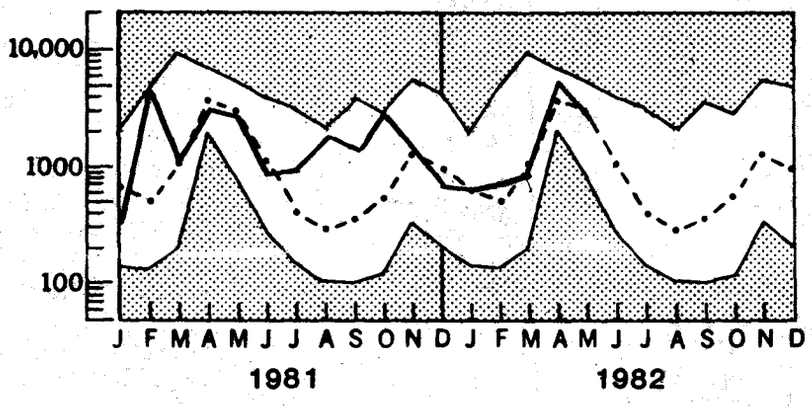
PAWCATUCK RIVER
AT WOOD RIVER JUNCTION, R.I. (B)



DOG RIVER AT NORTHFIELD FALLS, VT. (C)



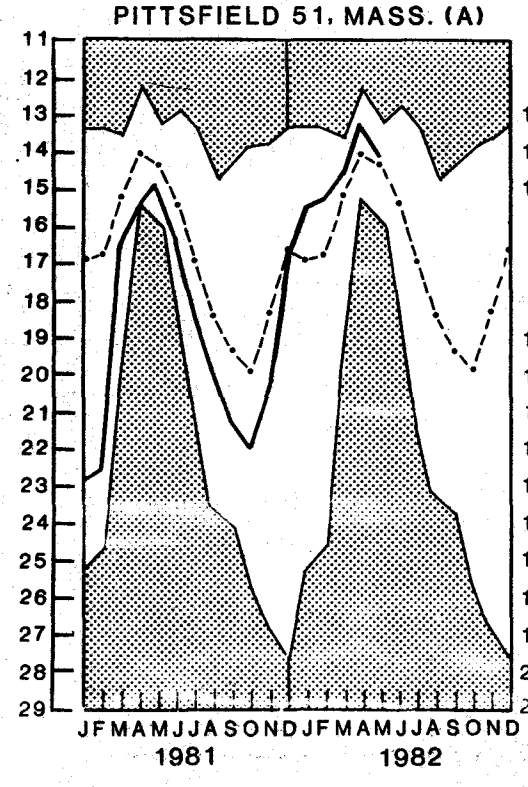
PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (D)

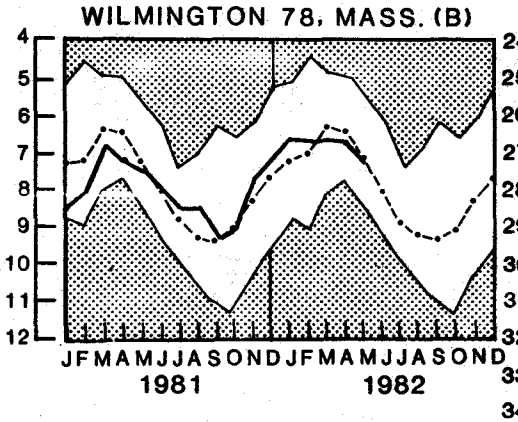


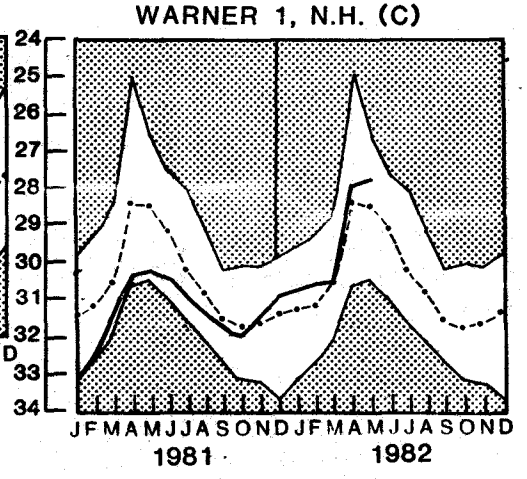
GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS

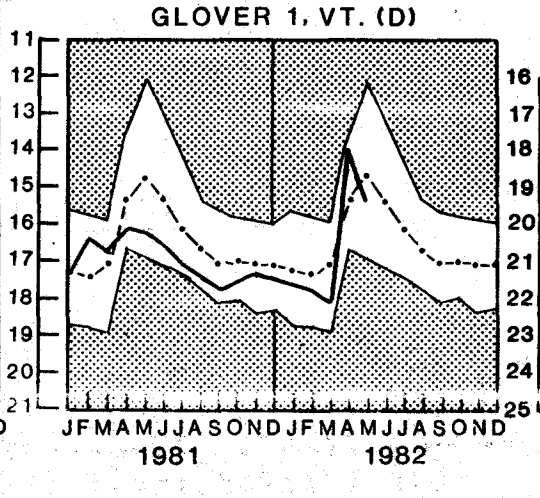
UNSHADED AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST MONTH-END WATER LEVEL OF RECORD

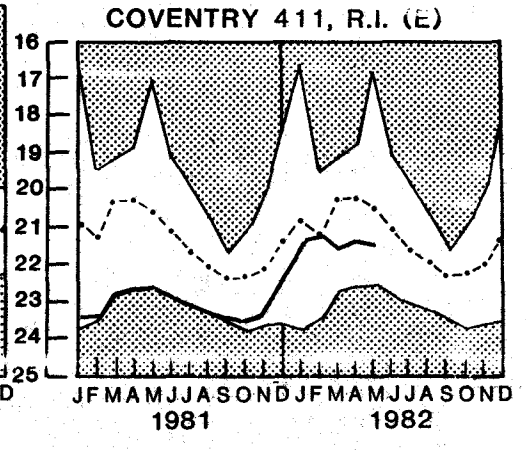
CURRENT RECORD ——— AVERAGE —·—·—











SUMMARY OF GROUND-WATER LEVELS, MAY 1982

PROVISIONAL
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WELL	START OF RECORD	NET CHANGE IN MONTH (FEET)	NET CHANGE IN ONE YEAR (FEET)	DEPARTURE FROM MAY AVERAGE* (FEET)	WATER LEVEL BELOW LAND-SURFACE DATUM (FEET)
MASSACHUSETTS					
ACTON 158	1965	- 0.45	+ 1.30	+ 0.02	17.92
BARNSTABLE 230	1957	- 0.32	+ 0.29	- 1.23	24.15
BARNSTABLE 247	1962	- 0.11	+ 0.69	- 1.38	25.19
BOURNE 198	1962	- 0.30	- 0.22	- 0.98	33.63
BREWSTER 21	1962	+ 0.13	+ 0.74	- 1.77	11.26
CHATHAM 138	1962	- 0.23	+ 1.29	- 0.51	23.63
DEDHAM 231	1965	- 1.65	+ 0.62	- 0.05	5.88
DOVER 10	1965	- 0.31	+ 1.31	- 0.26	32.29
EAST BRIDGEWATER 30	1958	- 2.03	+ 2.25	+ 0.25	6.58
FREETOWN 23	1964	+ 0.04	+ 0.91	- 0.69	13.59
GRANVILLE 5	1965	+ 0.50	+ 1.22	+ 0.11	31.90
GREAT BARRINGTON 2	1951	- 5.25	- 1.68	- 0.58	10.66
HAVERHILL 23	1960	- 1.06	+ 1.00	+ 0.31	10.33
LOWELL 14	1939	- 0.94	+ 1.10	+ 0.15	10.54
MONTAGUE 5	1942	- 0.12	+ 1.41	+ 0.42	1.92
NORTHBOROUGH 38	1962	- 0.69	+ 0.29	- 0.20	5.07
NORTHBRIDGE 1	1965	- 0.30	+ 0.02	- 0.10	2.81
PITTSFIELD 51	1963	- 0.82	+ 0.62	+ 0.11	14.21
PLYMOUTH 22	1956	+ 0.11	+ 2.33	- 0.72	24.03
SANDWICH 252	1962	- 0.02	+ 0.12	- 0.36	47.34
SANDWICH 253	1962	- 0.11	+ 0.03	- 1.52	50.94
STERLING 1	1947	- 0.07	+ 0.49	+ 0.31	3.14
TRURO 89	1962	- 0.17	- 0.14	- 0.43	12.25
WELLFLEET 17	1962	- 0.23	+ 0.56	- 0.64	10.32
WENHAM 76	1965	- 0.54	+ 0.55	+ 0.39	2.07
WEST BROOKFIELD 10	1970	- 3.17	- 1.61	- 1.14	5.51
WEYMOUTH 2	1965	- 1.76	+ 1.92	- 1.37	10.65
WILMINGTON 76	1951	- 0.63	+ 0.28	- 0.23	7.37
WINCHENDON 13	1939	- 1.93	- 1.48	- 0.48	5.10
WINCHESTER 14	1940	- 1.74	- 0.35	- 0.89	10.60
NEW HAMPSHIRE					
CONCORD 2	1963	+ 0.42	+ 2.20	- 0.43	40.42
CONCORD 3	1966	+ 0.49	+ 1.27	+ 0.42	56.57
CONCORD 4	1966	- 0.46	+ 2.40	+ 0.46	15.44
ERROL 1	1966	+ 0.80	+ 1.40	+ 0.53	10.60
FRANKLIN 1	1966	- 0.95	+ 4.83	+ 1.39	8.57
KEENE 2	1963	- 2.08	- 0.49	- 0.65	3.92
LEE 1	1953	- 0.22	+ 0.17	- 0.20	30.88
MERRIMACK 22	1958	- 1.41	- 0.23	- 0.53	7.33
MILFORD 36	1962	- 0.56	- 0.03	+ 0.16	8.05
NASHUA 218	1964	- 0.56	- 0.31	- 0.33	27.62
NEW LONDON 1	1947	- 4.01	- 2.15	- 1.42	7.76
WARNER 1	1965	+ 0.23	+ 2.56	+ 0.74	27.71
RHODE ISLAND					
BURRILLVILLE 187	1968	- 0.80	+ 0.55	- 0.53	14.48
CHARLESTOWN 18	1946	- 0.65	+ 1.42	- 0.28	16.82
COVENTRY 411	1961	- 0.27	+ 0.94	- 1.11	21.68
EXETER 16	1946	- 0.21	+ 2.52	+ 0.56	9.40
PAWTUCKET 136	1962	- 0.16	+ 1.06	- 0.36	4.58
WEST GREENWICH 181	1969	- 0.76	- 0.21	- 0.43	16.03
VERMONT					
BERKSHIRE 1	1966	- 3.94	+ 0.03	- 0.75	14.27
BRIGHTON 1	1966	- 1.99	+ 0.04	- 0.61	3.96
CHESTER 1	1966	- 2.35	- 0.24	- 0.73	5.27
GLOVER 1	1966	- 1.34	+ 0.94	- 0.56	15.31
HARTLAND 54	1969	- 1.05	+ 0.67	+ 0.05	7.88
MILTON 3	1956	- 0.14	+ 5.91	+ 2.86	26.39
MONTPELIER 2	1966	- 2.20	- 0.82	- 0.69	14.52
MORRISTOWN 1	1966	- 1.95	+ 0.18	- 0.12	18.07
PITTSFORD 8	1957	- 0.23	+ 1.83	+ 1.54	34.84
POWNAL 1	1964	- 1.64	+ 0.09	- 0.22	13.47
ROCHESTER 1	1966	- 5.31	- 1.42	- 1.05	10.26
WEST FAIRLEE 1	1966	- 1.56	- 0.26	+ 0.12	2.42

* - MONTHLY AVERAGE INCLUDES CURRENT MEASUREMENT

A MONTHLY REPORT PREPARED BY THE
U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
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