

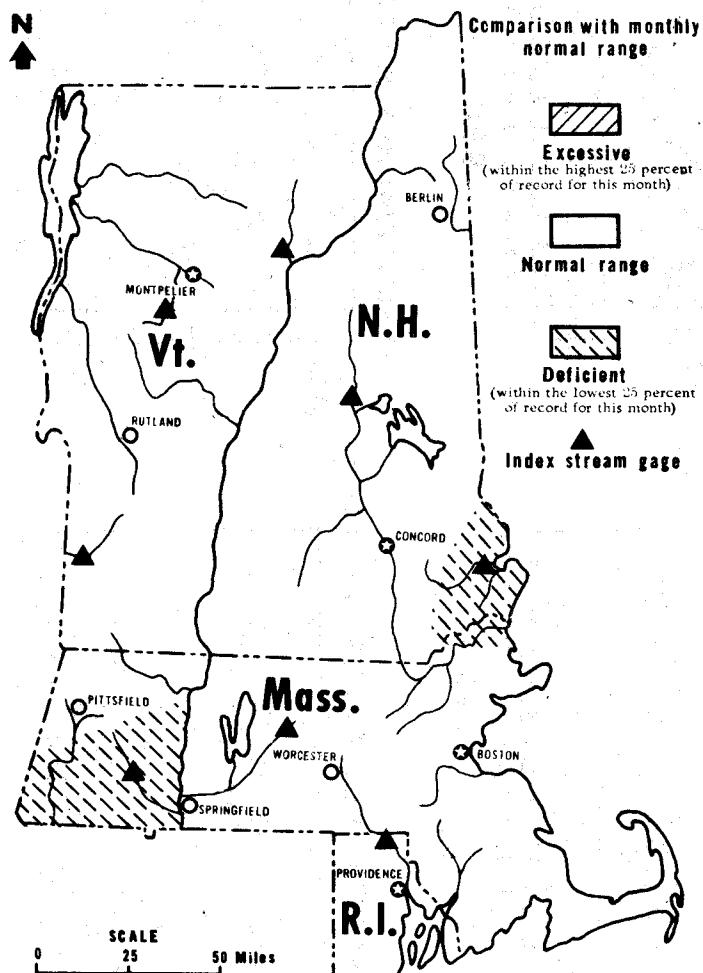


# CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND

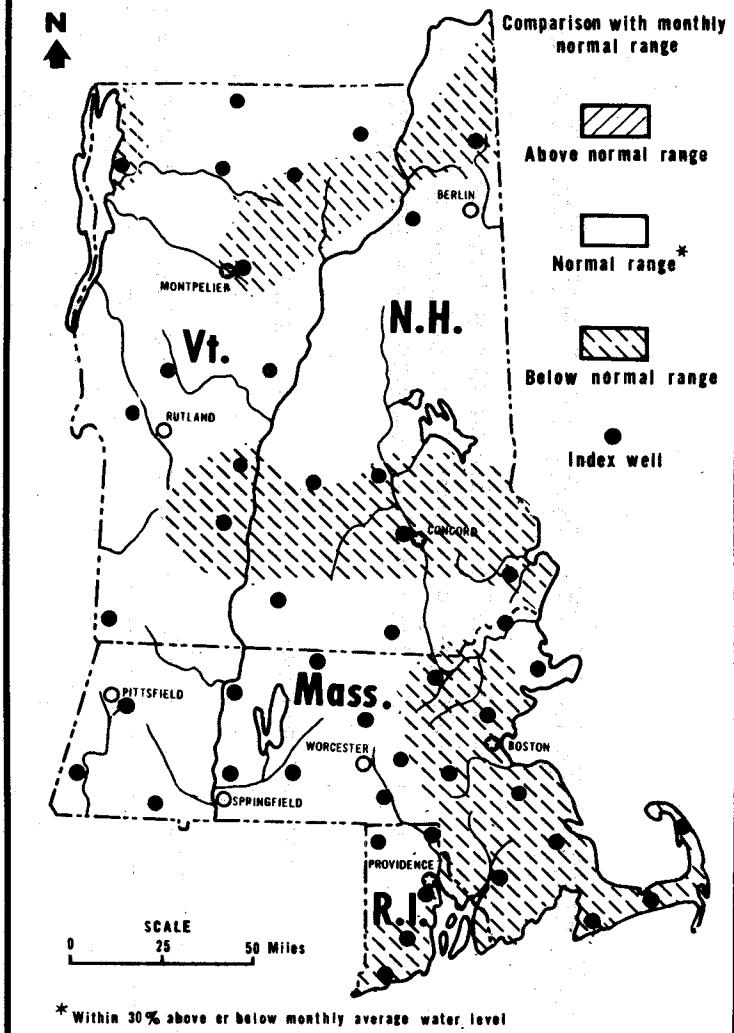


WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY  
IN COOPERATION WITH THE STATES OF  
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT

## SURFACE-WATER RUNOFF JUNE 1981



## GROUND-WATER LEVELS JUNE 1981

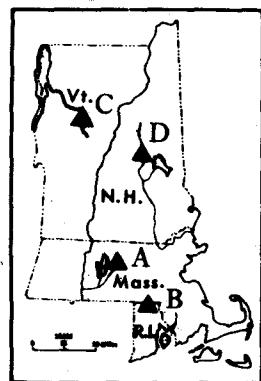


Runoff during June was in the normal range except in southwestern Massachusetts and southeastern New Hampshire, where it was deficient. At the end of the month streamflow at most index gaging stations was above median. With normal precipitation during July, runoff is expected to be in the normal range in most of central New England, but deficient in southwestern Massachusetts.

Ground-water levels declined seasonally and ranged from normal to below normal as shown on the map above. Ten percent of the wells reported on page 4 set new lows for the month of June. If present trends continue, levels during July are expected to range from normal to below normal, in much the same pattern as during June.

Storage in major reservoirs remained about the same as last month and ranged from 81 to 104 percent of average near the end of June. Total contents of all index reservoirs was about 97 percent of that of a year ago.

MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND



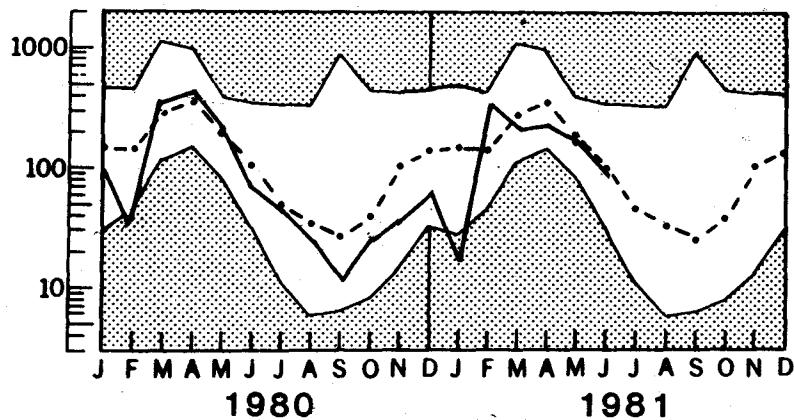
## STREAMFLOW AT SELECTED INDEX GAGES

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

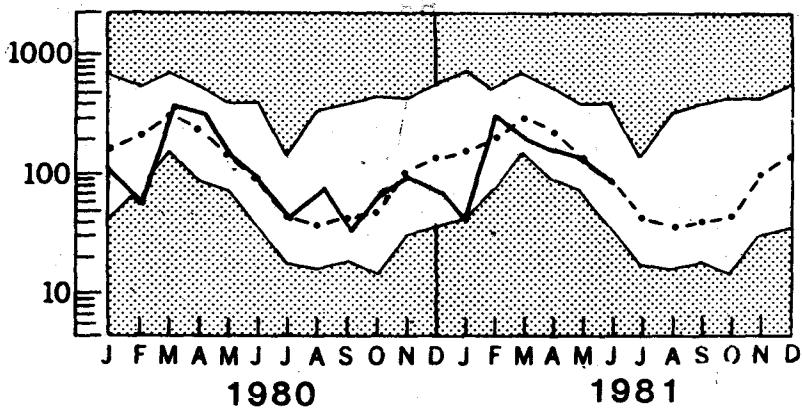
CURRENT RECORD —————

MEDIAN -----

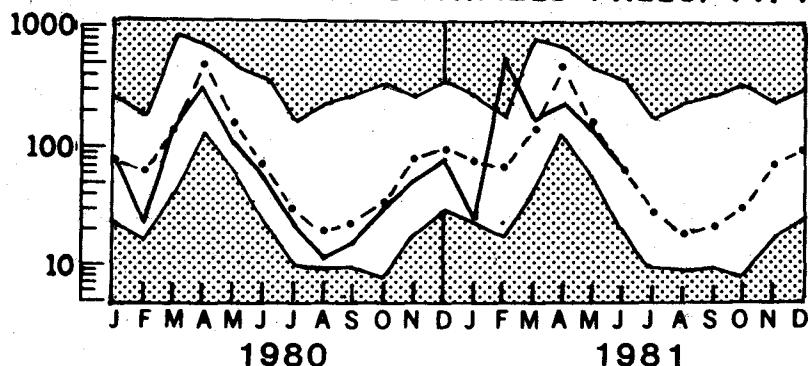
WARE RIVER AT INTAKE WORKS NEAR BARRE, MA (A)



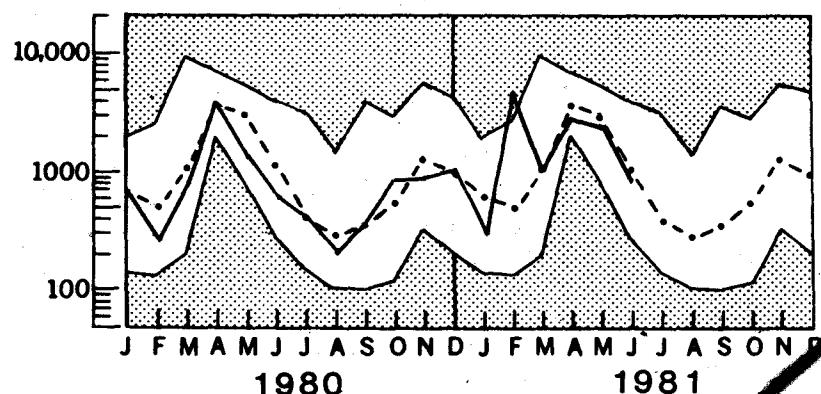
BRANCH RIVER AT FORESTDALE, R.I. (B)



DOG RIVER AT NORTHFIELD FALLS, VT. (C)



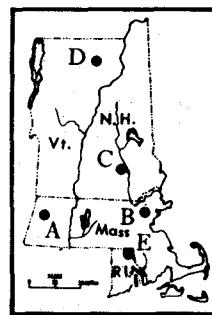
PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (D)



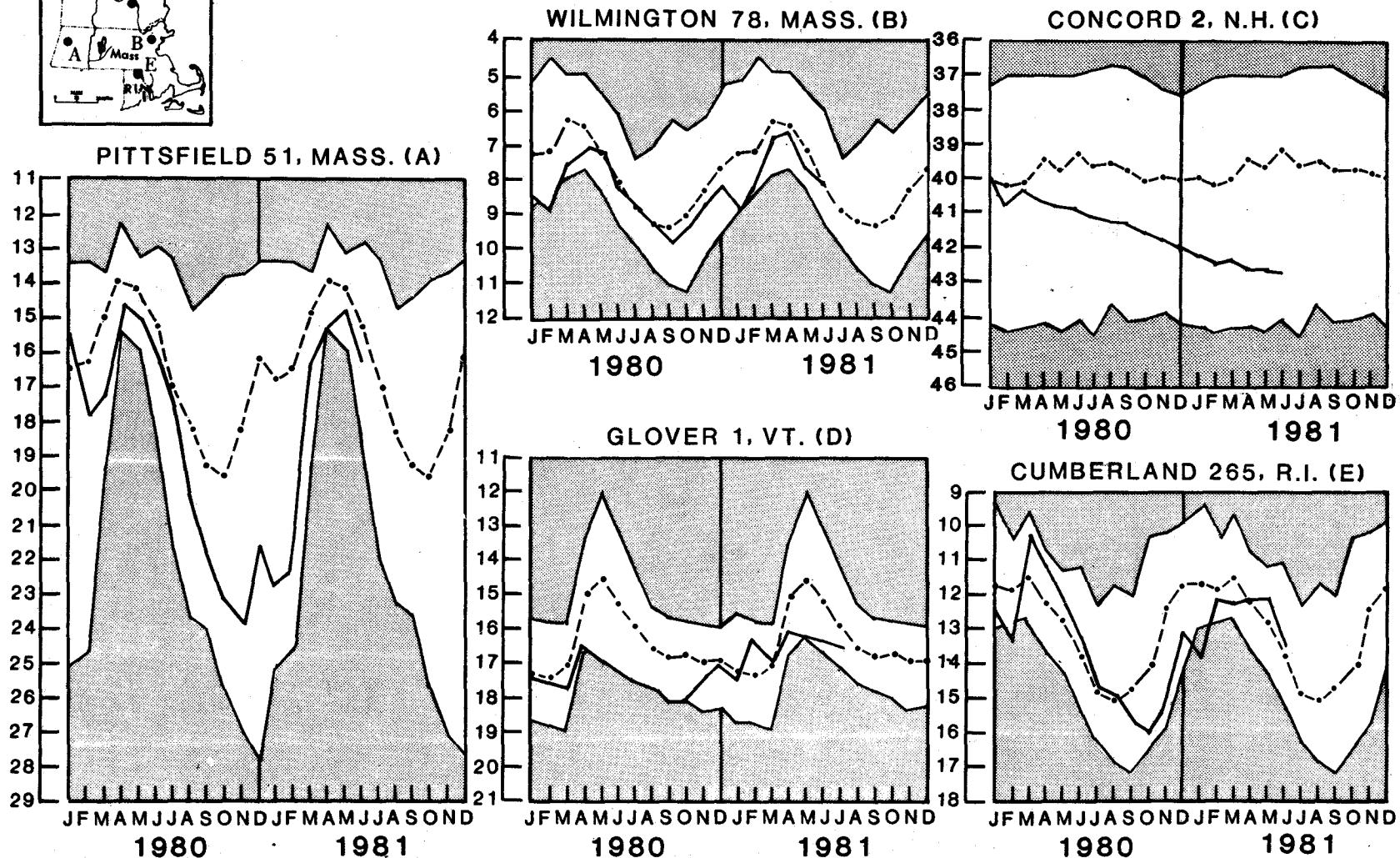
# GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS

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

WATER LEVEL IN FEET BELOW LAND SURFACE



CURRENT RECORD ————— AVERAGE - - - - -



## SUMMARY OF GROUND-WATER LEVELS, JUNE 1981

PROVISIONAL  
\*\*\*\*\*

WELL	START OF RECORD	NET CHANGE		DEPARTURE FROM JUNE AVERAGE*		WATER LEVEL BELOW LAND-SURFACE DATUM (FEET)
		'IN MONTH (FEET)	IN ONE YEAR (FEET)	JUN	AVERAGE* (FEET)	
<b>MASSACHUSETTS</b>						
ACTON 158	1965	- 0.40	- 1.04	- 1.33		19.62
BARNSTABLE 230	1957	+ 0.18	- 0.61	- 1.06		24.26
BARNSTABLE 247	1962	- 0.16	- 1.54	- 2.19		26.04
BOURNE 198	1962	- 0.38	- 0.71	- 0.98		33.79
BREWSTER 21	1962	+ 0.01	- 2.39	- 2.64		11.99
CHATHAM 138	1962	+ 0.09	- 0.80	- 1.55		24.83 ##
DEDHAM 231	1965	- 2.47	- 0.45	- 1.22		8.97
DOVER 10	1965	- 0.24	- 0.90	- 1.38		33.84 ##
EAST BRIDGEWATER 30	1958	- 1.85	- 1.03	- 1.60		10.68
FREETOWN 23	1964	+ 0.03	- 1.42	- 1.53		14.47
GRANVILLE 5	1965	- 0.17	- 2.01	- 1.01		33.29
GREAT BARRINGTON 2	1951	- 2.88	+ 0.75	- 0.45		11.86
HAVERHILL 23	1960	- 0.79	+ 0.26	- 0.30		12.12
LOWELL 14	1939	- 1.39	- 0.81	- 0.96		13.03
MONTAGUE 5	1942	- 1.28	- 1.60	- 1.01		4.61
NORTHBOROUGH 38	1962	- 0.68	+ 0.35	+ 0.18		6.04
NORTHBRIDGE 1	1965	- 0.30	- 0.13	- 0.22		3.13
PITTSFIELD 51	1963	- 1.34	0.0	- 0.77		16.17
PLYMOUTH 22	1956	0.0	- 1.82	- 2.95		26.36
SANDWICH 252	1962	- 0.09	- 0.15	- 0.51		47.55
SANDWICH 253	1962	- 0.16	- 1.34	- 1.97		51.13
STERLING 1	1947	+ 0.53	+ 2.78	+ 2.17		3.10 #
TRURO 89	1962	- 0.09	+ 0.14	- 0.24		12.20
WELLFLEET 17	1962	- 0.22	- 0.28	- 1.36		11.10
WENHAM 76	1965	- 0.63	- 0.20	- 0.16		3.25
WEST BROOKFIELD 10	1970	- 2.06	+ 1.79	+ 0.77		5.96
WEYMOUTH 2	1965	- 2.71	- 1.99	- 3.58		15.28 ##
WILMINGTON 78	1951	- 0.40	+ 0.14	- 0.03		8.05
WINCHENDON 13	1939	- 1.71	+ 1.97	+ 0.96		5.33
WINCHESTER 14	1940	- 1.68	- 0.68	- 0.76		11.93
<b>NEW HAMPSHIRE</b>						
CONCORD 2	1963	+ 0.03	- 1.66	- 2.60		42.59
CONCORD 3	1966	- 0.12	- 0.63	- 1.09		57.96
CONCORD 4	1966	- 0.36	+ 0.08	- 1.52		18.20
FRANKLIN 1	1966	+ 0.02	- 1.13	- 2.80		13.38 ##
KEENE 2	1963	- 0.47	+ 0.53	+ 0.16		3.90
LEE 1	1953	- 0.25	*****	- 0.26		31.30
MERRIMACK 22	1958	- 1.47	+ 0.32	- 0.42		8.57
MILFORD 36	1962	- 0.64	+ 0.51	+ 0.29		8.66
NASHUA 218	1964	- 0.45	+ 0.24	- 0.13		27.76
NEW LONDON 1	1947	- 3.04	+ 1.71	+ 0.18		8.65
WARNER 1	1965	- 0.19	- 0.04	- 1.29		30.46
<b>RHODE ISLAND</b>						
BURRILLVILLE 187	1968	- 1.03	- 1.20	- 1.32		16.06 ##
CHARLESTOWN 18	1946	- 1.01	- 1.87	- 1.85		19.25 ##
CUMBERLAND 265	1946	- 1.67	- 0.36	+ 0.04		13.77
EXETER 16	1946	- 0.19	- 2.07	- 1.52		12.11
PROVIDENCE 48	1944	- 0.16	- 0.84	+ 0.25		6.91
WEST GREENWICH 181	1969	- 0.54	+ 0.07	- 0.04		16.36
<b>VERMONT</b>						
BERKSHIRE 1	1966	- 0.15	+ 0.95	+ 0.24		14.45
BRIGHTON 1	1966	+ 0.28	+ 0.88	+ 0.14		3.72
CHESTER 1	1966	- 0.62	+ 0.04	- 0.25		5.65
GLOVER 1	1966	- 0.35	+ 0.55	- 1.16		16.60
HARTLAND 54	1969	- 0.56	+ 0.16	- 0.45		9.11
MILTON 3	1956	- 0.17	+ 0.71	- 3.37		32.47
MONTPELIER 2	1966	- 1.92	+ 0.40	- 0.44		15.62
MORRISTOWN 1	1966	- 0.51	+ 1.05	- 0.09		18.76
PITTSFORD 8	1957	+ 0.09	+ 0.01	+ 0.07		36.58
POWNAL 1	1964	- 0.22	+ 0.01	- 0.02		13.78
ROCHESTER 1	1966	- 2.09	+ 1.00	+ 0.38		10.93
WEST FAIRLEE 1	1966	- 1.26	+ 0.89	+ 0.16		3.42

# SET NEW HIGH OR EQUALLED HIGHEST RECORDED WATER LEVEL FOR END OF JUNE

## SET NEW LOW OR EQUALLED LOWEST RECORDED WATER LEVEL FOR END OF JUNE

\* - MONTHLY AVERAGE INCLUDES CURRENT MEASUREMENT

\*\*\*\*\* - DATA NOT AVAILABLE

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

IVAN C. JAMES II, DISTRICT CHIEF

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