U. S. DEPARTMENT OF COMMERCE
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CLIMATOGRAPHY OF THE UNITED STATES NO. 81-23

DECENNIAL CENSUS OF UNITED STATES CLIMATE—

MONTHLY NORMALS OF TEMPERATURE, PRECIPITATION, AND HEATING DEGREE DAYS

NEW ENGLAND

CONNECTICUT - MAINE - MASSACHUSETTS

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PREFACE

The climatological standard normals presented in this publication are based on records for the 30-year period 1931-1960 inclusive. For the first time, normals have been computed for substations and divisions using a base period identical to that used for first-order stations.

Previous normals were published in Weather Bureau Technical Paper No. 31, "Monthly Normal Temperatures, Precipitation, and Degree Days," and were based on records for the period 1921-1950. Earlier sets of normals are described in [1].

This is the first series of publications resulting from the project "The Decennial Census of United States Climate, 1960." The project is a continuation of earlier censuses of the climate of the United States that date back to the early 19th Century and are described in [2]. Future publications of this project will be listings of daily normals of temperature, and degree days; summaries of hourly observations; and listings of monthly divisional averages of temperature and precipitation.

Units used in this publication are degrees F. for temperatures, and inches for precipitation. The heating degree day normals are derived from the monthly normal temperatures, and are computed on the standard base of 65°F. Monthly normals of less than 5 degree days are shown as zero.

Standard Normals for Weather Bureau First Order Stations

A normal of a climatological element is an arithmetic mean for a specific period of record which estimates the true mean of the element at the current exposure of the meteorological instrument measuring the element. The true mean is the mean of all possible observations (population) at the current exposure. It is from this population that future observations will come, not from values in the past record. This is what makes it important to obtain an estimate of this mean. The true mean can never be known exactly but must be estimated from a sample of the past record ([3] p. 53 section 4. 3). The normals presented here are estimates of the true mean obtained from the 30-year sample record 1931-1960. They are called standard normals because they conform to the World Meteorological Organization standard for climatological normals.

If no exposure changes have occurred at a station the normal is estimated by simply averaging the 30 values from the 1931-1960 record. Since it is next to impossible to maintain a multiple purpose network of meteorological stations without having exposure changes, it is first necessary to find and evaluate these changes and then make adjustments for them if necessary.

Heterogeneities in record due to exposure changes are found in two ways: by determining them from the station histories and by use of statistical tests. The statistical test when standardized for the purpose is easy to apply and will often find heterogeneities which are not defined by the station histories as well as those which have been so determined. Two statistical tests were employed: one for temperature and the other for precipitation. These are described in [4].

After the periods of heterogeneity have been determined, adjustments are applied to remove the heterogeneities introduced into the mean. This is done by comparing the record at the base station, for which the normal is desired, to the record at a supplementary station with a homogeneous period which covers the heterogeneous period at the base station. The difference method is applied to the monthly average maximum and minimum temperatures and the ratio method to the monthly total precipitation. A weighted average of the various partial means of the adjusted and unadjusted record is then prepared to give the normal. Brief discussions of the methods of adjustment are found in [3] (p. 49, section 4. 24).

Normal heating degree days are derived by the method described in [5].

Normals for Substations and Divisions

Normals for substations were computed somewhat differently than those for first-order stations. Monthly substation normals are the simple arithmetic averages of the monthly values of temperature and precipitation for the period 1931-1960. These were computed for only those substations that were active during the entire period and no attempt was made to adjust for minor changes in location of the observing site, or for changes in the time of observation. Normals were not computed for substations that were moved a significant distance during the 1931-1960 period. Missing values in the data series were estimated by methods described in [6]. Substations whose locations were essentially unchanged during the 1931-1960 period are identified in the tables.

Monthly divisional normals are the means of the monthly divisional averages of temperature and precipitation for the period 1931-1960. In calculating the monthly divisional averages, all of the stations in the division that furnished both temperature and precipitation data during the particular month were used. The averages therefore were obtained from a variable station sample. As a result, the divisional normals often differ from the averages of the normals for stations in the division.

Annual substation and divisional normals are the averages of the 12 monthly temperature normals and the sums of the 12 monthly precipitation normals.

References

1. U. S. Weather Bureau, "History of Climatological Publications," Key to Meteorological Records Documentation No. 4. 1, Washington, D. C., 1958.

2. H. E. Landsberg, "The Decennial United States Census of Climate 1960 and Its Antecedents," Key to Meteorological Records Documentation No. 6. 2, U. S. Weather Bureau, Washington, D. C., 1960.

3. U. S. Weather Bureau, Climatology at Work, Gerald L. Barger, ed., Washington, D. C., 1960.

4. H. C. S. Thom, "Tests of Significance for Temperature and Precipitation Normals," U. S. Weather Bureau Manuscript, 1961.

5. H. C. S. Thom, "The Rational Relationship Between Heating Degree Days and Temperature," Monthly Weather Review, Vol. 82, No. 1, January 1954.

6. U. S. Weather Bureau, Administrative Manual, Vol. III, Chap. C-05, paras. C-0509 and C-0510.

NOTES

1. Station Names

In Table I, "AP" after the city name indicates "airport station" "CO" indicates "city office station." Figures and letters following the station name indicate a rural location, and refer to the distance and direction of the station from the nearest post office.

# indicates a station whose location has been essentially unchanged during the period 1931-1960.

H indicates the ground elevation of the station in feet above sea level, as of December 31, 1960.

G indicates the elevation at hygrothermometer site (where different from "H").

T indicates the height of the thermometer in feet above the ground as of December 31, 1960.

/NO TEST/ indicates that significant difference tests were not made.

2. Table Content

* indicates that the departure of the 1951-60 record from the 1921-50 normal is statistically significant, but through the adjustments for changes in location and exposure the absolute difference between old and new normals may even in these cases be very small.

T in the data tables indicates a monthly precipitation amount of only a trace.

February monthly normals are for a 28-day month.

TABLE I - NORMALS FOR FIRST ORDER STATIONS

CONNECTICUT

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
BRIDGEPORT AP	H 7 T 5													
	MAX TEMP	37.4	38.2*	45.2	56.7*	67.9*	77.1*	82.6*	81.1	74.6	64.7	52.7	40.8*	59.9
	MIN TEMP	22.9	22.7*	29.7*	39.3*	49.5*	58.8*	64.8*	63.4	56.6	46.0*	36.3*	25.6*	43.0
	AVG TEMP	30.2	30.5*	37.5*	48.0*	58.7*	68.0*	73.7*	72.3	65.5	55.4*	44.5*	33.2*	51.5
	DEG DAYS	1079	906*	853*	510*	208*	27*	0	0	66	307*	615*	986*	5617
	PRECIP	3.69	2.96	4.25	3.80	3.71	3.40*	3.77	4.45	3.95	3.38*	4.02	3.51	44.89
HARTFORD AP	H 169 T 6													
	MAX TEMP	35.6	37.0	44.9*	58.7	70.8*	79.1*	83.4*	81.0*	73.2*	63.8	50.7	38.4	59.7
	MIN TEMP	17.6	18.5*	26.4	36.7*	46.8	56.0	60.9	59.3	51.3	40.7	31.7	20.5*	38.9
	AVG TEMP	26.6	27.8*	35.7*	47.7*	58.8*	67.6*	72.2*	70.2*	62.3*	52.3	41.2	29.5*	49.3
	DEG DAYS	1190	1042*	908*	519*	205*	33*	0	12*	117*	394	714	1101*	6235
	PRECIP	3.58	2.94*	3.80*	3.73*	3.41*	3.70	3.61	4.01*	3.65	3.18*	3.84	3.47	42.92
NEW HAVEN AP	H 6 T 4													
	MAX TEMP	37.1	38.0*	44.9	55.9*	66.8	75.2	80.5*	79.4	73.3	63.7	51.9	40.4	58.9
	MIN TEMP	22.0	21.1*	28.9	37.9*	47.5	57.1*	63.2*	61.8*	54.5*	44.2*	34.9	24.4*	41.5
	AVG TEMP	29.6	29.6*	36.9	46.9*	57.2	66.2*	71.9*	70.6*	63.9*	54.0*	43.4	32.4*	50.2
	DEG DAYS	1097	991*	871	543*	245	45*	0	12*	87*	347*	648	1011*	5897
	PRECIP	3.96	3.19	4.62	3.89	3.71	3.53*	3.43	4.24	3.93	3.45*	4.05	4.02	46.02

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
NORTHWEST																										
#CREAM HILL	24.7	25.5	33.3	45.6	56.8	65.4	70.3	68.5	61.3	51.5	39.6	27.6	47.5	3.47	2.89	3.80	3.77	3.88	4.55	4.67	4.11	4.31	3.45	4.09	3.64	46.63
#FALLS VILLAGE	25.2	26.2	34.2	46.0	57.3	65.8	70.3	68.5	61.1	50.4	39.9	27.8	47.7	3.06	2.34	3.15	3.75	3.70	4.40	4.19	3.81	4.24	3.18	3.80	3.05	42.67
DIVISION	24.5	25.3	33.3	45.4	56.5	65.0	69.7	67.9	60.5	50.4	39.3	27.4	47.1	3.53	2.92	3.86	3.89	4.01	4.59	4.34	4.14	4.29	3.48	4.24	3.63	46.92
CENTRAL																										
#COLLINSVILLE 1 S	*	*	*	*	*	*	*	*	*	*	*	*	*	4.02	3.35	4.62	4.32	4.00	4.25	4.00	4.66	4.32	3.51	4.54	4.10	49.69
HARTFORD BRAINARD FLD	27.8	28.9	37.0	48.2	59.3	68.0	73.2	71.1	63.6	53.4	42.4	30.8	50.3	3.80	2.97	4.02	3.72	3.57	3.66	4.00	3.87	3.68	3.01	4.15	3.72	44.17
HARTFORD AP	26.6	27.8	35.7	47.7	58.8	67.6	72.2	70.2	62.3	52.3	41.2	29.5	49.3	3.58	2.94	3.80	3.73	3.41	3.70	3.61	4.01	3.65	3.18	3.84	3.47	42.92
MIDDLETOWN 4 W	28.5	29.2	35.9	47.7	58.7	67.3	72.8	70.8	63.0	53.6	43.0	31.4	50.2	4.16	3.29	4.61	4.41	4.18	4.01	3.92	4.32	4.48	3.69	4.93	4.29	50.29
STORRS	26.2	26.8	34.2	45.4	56.3	65.0	70.0	68.3	61.1	51.6	40.9	29.1	47.9	3.61	2.85	4.20	3.89	3.85	3.48	3.91	4.94	4.09	3.48	4.26	3.66	46.22
DIVISION	27.6	28.5	36.1	47.2	58.0	66.7	71.8	69.9	62.6	52.8	41.9	30.4	49.5	3.80	3.01	4.27	4.02	3.86	3.62	3.92	4.40	4.14	3.42	4.49	3.88	46.83
COASTAL																										
BRIDGEPORT AP	30.2	30.5	37.5	48.0	58.7	68.0	73.7	72.3	65.5	55.4	44.5	33.2	51.5	3.69	2.96	4.25	3.80	3.71	3.40	3.77	4.45	3.95	3.38	4.02	3.51	44.89
#LAKE KONOMOC	*	*	*	*	*	*	*	*	*	*	*	*	*	4.34	3.53	4.83	4.44	4.10	3.40	3.98	4.50	4.39	3.97	4.98	4.38	50.84
NEW HAVEN AP	29.6	29.6	36.9	46.9	57.2	66.2	71.9	70.6	63.9	54.0	43.4	32.4	50.2	3.96	3.19	4.62	3.89	3.71	3.53	3.43	4.24	3.93	3.45	4.05	4.02	46.02
DIVISION	29.8	30.5	37.5	48.0	58.2	67.2	72.5	71.0	64.1	54.2	43.6	32.4	50.8	3.91	3.19	4.57	4.00	3.82	3.44	3.73	4.64	4.07	3.56	4.24	3.90	47.07

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
CARIBOU AP	H 620 T 6													
	MAX TEMP	19.8*	22.3*	31.8	45.0*	60.7	69.3	75.1	73.4	64.1	52.0	36.8	23.5*	47.8
	MIN TEMP	1.1*	2.6*	13.8*	27.7*	39.1*	48.6*	53.9	51.8	43.5	34.0	23.5*	7.5	28.9
	AVG TEMP	10.5*	12.5*	22.8*	36.4*	49.9*	59.0*	64.5	62.6	53.8	43.0	30.2*	15.5*	38.4
	DEG DAYS	1690*	1470*	1308*	858*	468*	183*	78	115	336	682	1044*	1535*	9767
	PRECIP	2.11	2.02*	2.38	2.63	3.03	4.07	4.04	3.67	3.53	3.36	3.04	2.43*	36.31
PORTLAND AP	H 61 T 5													
	MAX TEMP	31.8	33.5*	40.7	52.5*	64.2*	73.1	79.5*	78.4	70.2	59.8	47.6	35.3	55.6
	MIN TEMP	11.7*	12.1*	22.0	32.4*	41.7	51.1	56.7	55.2	47.2	37.4	28.6*	16.3*	34.4
	AVG TEMP	21.8*	22.8*	31.4	42.5*	53.0*	62.1	68.1*	66.8	58.7	48.6	38.1*	25.8*	45.0
	DEG DAYS	1339*	1182*	1042	675*	372*	111	12*	53	195	508	807*	1215*	7511
	PRECIP	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.52	3.20	4.17	3.85	42.85

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

TEMPERATURE (°F)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
NORTHERN													
#BRASSUA DAM	.	.	.	.	.	.	.	.	.	.	.	.	.
CARIBOU AP	10.5	12.5	22.8	36.4	49.9	59.0	64.5	62.6	53.8	43.0	30.2	15.5	38.4
#FORT FAIRFIELD	.	.	.	.	.	.	.	.	.	.	.	.	.
#GREENVILLE	13.3	15.1	24.5	37.4	50.4	59.8	64.9	63.0	54.8	44.2	32.3	17.9	39.8
#HOULTON	14.1	16.3	26.5	39.5	52.4	61.4	67.4	65.0	56.2	45.3	33.4	18.9	41.4
#JACKMAN	.	.	.	.	.	.	.	.	.	.	.	.	.
#MIDDLE DAM	.	.	.	.	.	.	.	.	.	.	.	.	.
#MILLINOCKET	15.8	17.6	27.9	41.1	53.4	62.5	67.9	66.0	57.6	46.2	34.3	20.0	42.5
#MOOSEHEAD	.	.	.	.	.	.	.	.	.	.	.	.	.
#RIPOGENUS DAM	12.8	13.6	23.5	37.8	50.5	60.8	66.6	64.8	56.5	45.6	33.0	17.8	40.3
#SQUA PAN DAM	.	.	.	.	.	.	.	.	.	.	.	.	.
THE FORKS	.	.	.	.	.	.	.	.	.	.	.	.	.
#UPPER DAM	.	.	.	.	.	.	.	.	.	.	.	.	.
DIVISION	13.3	14.9	25.0	38.4	51.4	60.8	66.3	64.3	55.8	44.9	32.6	17.9	40.5
SOUTHERN INTERIOR													
#FARMINGTON	18.2	20.2	29.7	42.4	54.9	63.7	68.8	66.8	58.5	47.7	35.7	21.8	44.0
#GARDINER	20.4	21.5	30.6	42.6	54.1	63.1	68.7	67.3	59.0	48.9	37.9	24.7	44.9
#HIRAM 2 S	.	.	.	.	.	.	.	.	.	.	.	.	.
#LEWISTON	20.7	22.2	31.1	42.8	54.6	64.0	70.0	68.6	60.2	49.7	37.9	25.1	45.6
#MADISON	17.9	19.4	29.0	41.5	53.5	62.7	68.1	66.5	58.4	47.6	35.8	21.9	43.5
OLD TOWN FAA AIRPORT	19.2	21.0	30.5	42.5	54.2	62.5	68.1	66.5	58.2	47.9	37.0	23.4	44.3
#RUMFORD POWER PLANT	18.9	20.4	29.3	41.6	53.8	63.1	68.3	66.3	58.1	47.6	35.9	22.8	43.8
#WATERVILLE PUMP STA	19.6	21.3	31.2	43.6	55.4	64.3	69.8	68.3	60.0	49.2	37.7	23.7	45.3
#WOODLAND	17.7	18.8	28.6	40.8	52.2	61.4	68.0	66.1	57.7	47.0	36.0	22.1	43.0
DIVISION	19.0	20.6	30.0	42.3	54.1	63.0	68.6	67.0	58.7	48.1	36.6	23.0	44.3
COASTAL													
BAR HARBOR	23.8	24.5	32.3	42.6	53.0	60.9	66.9	66.0	58.9	49.4	39.8	27.2	45.4
#EASTPORT	22.9	23.5	30.8	40.2	48.7	55.8	61.5	61.9	56.7	48.5	39.0	26.8	43.0
#ELLSWORTH	.	.	.	.	.	.	.	.	.	.	.	.	.
#MACHIAS	.	.	.	.	.	.	.	.	.	.	.	.	.
PORTLAND AP	21.8	22.8	31.4	42.5	53.0	62.1	68.1	66.8	58.7	48.6	38.1	25.8	45.0
DIVISION	23.1	24.0	31.9	42.1	52.1	60.3	66.3	65.[illegible]	58.6	49.1	39.1	26.7	44.9

PRECIPITATION (In.)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
NORTHERN													
#BRASSUA DAM	2.72	2.41	2.92	3.20	3.09	3.77	3.56	3.29	3.31	3.47	3.45	2.98	38.17
CARIBOU AP	2.11	2.02	2.38	2.63	3.03	4.07	4.04	3.67	3.53	3.36	3.04	2.43	36.31
#FORT FAIRFIELD	2.68	2.66	2.64	2.93	2.88	4.17	4.09	3.33	3.52	3.61	3.54	3.15	39.20
#GREENVILLE	3.17	2.82	3.45	3.57	3.55	4.03	4.14	3.54	3.81	3.88	3.95	3.43	43.34
#HOULTON	2.72	2.52	2.69	2.84	2.77	3.48	3.26	2.83	3.29	3.79	3.61	3.19	36.99
#JACKMAN	2.44	2.23	2.65	2.79	3.08	3.76	3.59	3.35	3.33	3.09	3.03	2.72	36.06
#MIDDLE DAM	2.59	2.34	3.03	3.07	3.57	4.29	4.20	3.43	3.86	3.41	3.51	2.74	40.04
#MILLINOCKET	3.24	2.84	3.22	3.44	3.12	3.89	3.47	3.73	3.67	3.72	4.11	3.50	41.95
#MOOSEHEAD	2.57	2.27	2.80	3.09	2.96	3.78	4.05	3.52	3.31	3.52	3.47	2.85	38.19
#RIPOGENUS DAM	2.62	2.47	2.81	3.46	3.36	4.28	4.20	3.84	3.77	3.95	3.75	2.89	41.40
#SQUA PAN DAM	2.52	2.33	2.57	2.87	2.89	4.06	3.71	3.38	3.46	3.42	3.34	2.68	37.23
THE FORKS	2.76	2.32	2.83	3.00	2.97	3.57	3.46	3.13	3.26	3.39	3.45	2.78	36.92
#UPPER DAM	2.56	2.22	2.76	2.85	3.18	3.95	3.68	3.17	3.44	2.98	3.36	2.68	36.83
DIVISION	2.82	2.48	2.88	3.16	3.14	3.95	3.81	3.59	3.57	3.69	3.64	3.06	39.79
SOUTHERN INTERIOR													
#FARMINGTON	3.59	2.98	3.85	3.76	3.72	3.96	3.88	3.06	3.85	3.86	4.50	3.62	44.63
#GARDINER	3.81	3.29	3.75	3.96	3.39	3.31	3.57	2.90	3.77	3.79	4.59	3.82	43.95
#HIRAM 2 S	4.02	3.43	4.34	3.82	3.59	3.85	3.53	3.41	3.89	3.46	4.60	3.91	45.85
#LEWISTON	4.01	3.37	4.13	3.78	3.33	3.23	3.39	2.76	3.65	3.51	4.46	3.96	43.58
#MADISON	3.29	2.63	3.28	3.30	3.23	3.33	3.18	2.63	3.45	3.20	3.92	3.28	38.92
OLD TOWN FAA AIRPORT	3.37	2.92	3.24	3.49	3.18	3.45	3.08	2.72	3.67	3.88	4.15	3.49	40.64
#RUMFORD POWER PLANT	3.02	2.50	3.44	3.24	3.56	3.42	3.70	2.87	3.64	3.45	4.02	3.28	40.[illegible]
#WATERVILLE PUMP STA	3.01	2.57	2.95	3.30	3.25	3.06	3.22	2.95	3.83	3.49	4.09	3.19	38.91
#WOODLAND	3.70	3.21	3.48	3.53	3.26	3.46	3.29	3.02	3.85	4.25	4.83	3.97	43.85
DIVISION	3.46	2.93	3.45	3.50	3.37	3.43	3.38	2.92	3.75	3.70	4.26	3.49	41.64
COASTAL													
BAR HARBOR	4.46	3.79	4.39	3.91	3.83	3.34	3.10	3.12	4.22	4.38	5.25	4.38	48.17
#EASTPORT	3.66	3.28	3.07	3.03	3.03	3.23	3.07	2.86	3.27	3.32	4.27	3.49	39.58
#ELLSWORTH	3.98	3.43	3.76	3.55	3.26	3.07	3.10	2.56	3.96	3.83	4.85	3.93	43.28
#MACHIAS	4.84	4.21	4.22	4.08	3.55	3.75	3.37	3.09	4.44	4.11	5.27	4.48	49.41
PORTLAND AP	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.52	3.20	4.17	3.85	42.85
DIVISION	4.22	3.60	3.96	3.65	3.42	3.24	3.07	2.80	3.77	3.68	4.70	3.96	44.07

TABLE I - NORMALS FOR FIRST ORDER STATIONS

MASSACHUSETTS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
#BLUE HILL OBSY	H 629 T 6													
MAX TEMP		34.4	35.4*	42.8	54.9*	66.9	74.7	80.2*	78.4	71.1	61.3	49.8	37.4	57.3
MIN TEMP		19.5	19.3*	26.8	36.5*	46.5	55.4	61.6	60.4	53.6	44.0	34.2	22.5	40.0
AVG TEMP		27.0	27.4*	34.8	45.7*	56.7	65.1	70.9*	69.4	62.4	52.7	42.0	30.0	48.7
DEG DAYS		1178	1053*	936	579*	267	69	0	22	108	381	690	1085	6368
PRECIP		4.49	3.73	4.54	4.00	3.48	3.75	3.27	4.05	3.95	3.75	4.53	3.96	47.50
BOSTON AP	H 15 T 20													
MAX TEMP		36.8	37.4*	44.6	55.7*	67.5*	76.3	81.9*	80.0	73.4	62.7	51.9	40.1	59.0
MIN TEMP		23.0	23.1*	30.7	40.0*	50.1	59.2	65.4*	63.3	57.1*	47.2	37.8	26.5	43.6
AVG TEMP		29.9	30.3*	37.7	47.9*	58.8*	67.8	73.7*	71.7	65.3*	55.0	44.9	33.3	51.4
DEG DAYS		1088	972*	846	513*	208*	36	0	9	60*	316	603	983	5634
PRECIP		3.94*	3.32*	4.22*	3.77*	3.34*	3.48	2.88	3.66*	3.46	3.14*	3.93*	3.63*	42.77
NANTUCKET AP	H 43 T 6													
MAX TEMP		39.2	38.1	42.5	50.6	59.9	67.8	74.3*	74.4	69.3	60.8	52.3	42.5	56.0
MIN TEMP		25.8	24.6*	29.6	37.0*	45.3	53.8	60.7*	60.7*	55.4*	46.8*	38.5*	28.6*	42.2
AVG TEMP		32.5	31.4*	36.1	43.8*	52.6	60.8	67.5*	67.6*	62.4*	53.8*	45.4*	35.6*	49.1
DEG DAYS		1008	941*	896	636*	384	141	16*	28*	105*	347*	588*	911*	6001
PRECIP		4.22	3.76*	4.54*	3.76	2.88	2.92*	2.71	3.68	3.51	3.70	4.05	3.93	43.66
PITTSFIELD AP	H1153 T 5													
MAX TEMP		30.5	31.6*	39.6	53.4*	66.2	74.6	79.2	77.6	69.4	59.4	46.0	33.8	55.1
MIN TEMP		13.1	13.0*	21.8	32.6*	42.9	51.5	56.4	54.7	46.8	36.8*	28.5	16.8*	34.6
AVG TEMP		21.8	22.3*	30.7	43.0*	54.6	63.1	67.8	66.2	58.1	48.1*	37.3	25.3*	44.9
DEG DAYS		1339	1196*	1063	660*	326	105	25	59	219	524*	831	1231*	7578
PRECIP		2.97	2.51	3.22	3.87	3.87	4.28*	4.89*	3.90	4.50	3.25	3.91	3.25	44.42
WORCESTER AP	H 986 T 5													
MAX TEMP		31.2	32.8*	40.5	53.6*	66.1	74.2	79.0	77.4	69.9	59.9	47.1	34.2	55.5
MIN TEMP		16.8	16.9*	25.0	35.6*	44.2	54.9	60.5	59.1	51.7	41.0	31.3	20.1	38.1
AVG TEMP		24.0	24.9*	32.8	44.6*	55.2	64.6	69.8	68.3	60.8	50.5	39.2	27.2	46.8
DEG DAYS		1271	1123*	998	612*	304	78	6	34	147	450	774	1172	6969
PRECIP		3.71	2.92*	4.11*	3.93*	3.79	3.84	3.63	4.24*	3.92	3.47*	4.26	3.59	45.41

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

TEMPERATURE (°F)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
WESTERN													
#ADAMS	22.8	23.2	31.8	44.4	55.5	64.5	69.4	67.1	59.4	49.1	38.0	26.2	46.0
#CHESTERFIELD	•	•	•	•	•	•	•	•	•	•	•	•	•
#HEATH	•	•	•	•	•	•	•	•	•	•	•	•	•
#HOOSAC TUNNEL	22.0	23.1	31.5	43.7	55.3	64.2	68.7	66.6	59.4	49.2	37.6	25.2	45.5
#PERU	•	•	•	•	•	•	•	•	•	•	•	•	•
PITTSFIELD AP	21.8	22.3	30.7	43.0	54.6	63.1	67.8	66.2	58.1	48.1	37.3	25.3	44.9
#PLAINFIELD	•	•	•	•	•	•	•	•	•	•	•	•	•
#SOUTH EGREMONT	•	•	•	•	•	•	•	•	•	•	•	•	•
STOCKBRIDGE	23.3	23.8	32.2	44.5	55.3	63.2	67.7	65.6	58.5	49.0	38.6	26.7	45.7
#WEST OTIS	•	•	•	•	•	•	•	•	•	•	•	•	•
DIVISION	22.7	23.3	31.7	44.2	55.6	64.2	68.8	66.6	59.1	49.1	38.0	26.0	45.8
CENTRAL													
#AMHERST	25.1	26.1	35.0	46.7	58.0	66.8	71.7	69.6	62.0	51.8	40.4	28.3	48.5
#ASHLAND	•	•	•	•	•	•	•	•	•	•	•	•	•
#BLUE HILL OBS	27.0	27.4	34.8	45.7	56.7	65.1	70.9	69.4	62.4	52.7	42.0	30.0	48.7
#BOYLSTON	•	•	•	•	•	•	•	•	•	•	•	•	•
#CHESTNUT HILL	29.8	30.6	38.1	48.8	59.6	68.1	73.5	71.8	64.8	54.8	44.6	32.8	51.4
#CLINTON	26.2	26.6	34.5	45.7	57.1	65.7	70.9	69.2	62.0	52.2	41.7	29.9	48.5
#FITCHBURG 2 S	25.9	26.7	35.2	46.7	58.4	67.3	72.3	70.6	62.6	52.4	41.2	29.2	49.0
#FRAMINGHAM	27.5	28.4	36.8	48.0	59.2	68.0	73.2	71.3	63.7	53.2	42.7	30.6	50.2
FRANKLIN	•	•	•	•	•	•	•	•	•	•	•	•	•
#GARDNER	•	•	•	•	•	•	•	•	•	•	•	•	•
#GROTON	•	•	•	•	•	•	•	•	•	•	•	•	•
#HARDWICK	•	•	•	•	•	•	•	•	•	•	•	•	•
HAVERHILL	28.0	29.1	37.1	48.4	59.8	68.4	73.8	71.8	64.3	54.0	43.2	31.2	50.8
#HOLYOKE	•	•	•	•	•	•	•	•	•	•	•	•	•
#HUBBARDSTON	•	•	•	•	•	•	•	•	•	•	•	•	•
#LAWRENCE	26.0	27.0	35.3	46.6	57.8	66.8	72.3	70.4	62.8	52.6	41.8	29.5	49.1
#LOWELL	26.7	27.9	36.1	47.5	59.1	68.1	73.6	71.6	63.8	53.2	42.0	30.0	50.0
#MANSFIELD	•	•	•	•	•	•	•	•	•	•	•	•	•
#MILFORD	•	•	•	•	•	•	•	•	•	•	•	•	•
#NORTHBRIDGE	•	•	•	•	•	•	•	•	•	•	•	•	•
#PETERSHAM 3 N	•	•	•	•	•	•	•	•	•	•	•	•	•
#SHELBURNE FALLS	22.9	23.4	32.4	44.5	55.8	65.1	69.9	67.9	60.2	49.7	38.4	26.1	46.4
#SOUTHBRIDGE 3 SW	•	•	•	•	•	•	•	•	•	•	•	•	•
#SPRINGFIELD ARMORY	28.5	29.7	38.0	49.8	61.0	69.3	74.0	72.2	64.8	55.0	43.5	31.4	51.4
STERLING	•	•	•	•	•	•	•	•	•	•	•	•	•
#TURNERS FALLS	24.7	26.0	34.9	47.1	58.9	67.7	72.3	70.3	62.6	52.0	40.3	28.0	48.7
#WESTFIELD	•	•	•	•	•	•	•	•	•	•	•	•	•
#WESTON	27.7	28.8	36.5	47.4	58.2	66.5	72.0	70.4	62.9	53.0	42.4	30.5	49.7
WINCHENDON	•	•	•	•	•	•	•	•	•	•	•	•	•
WORCESTER AP	24.0	24.9	32.8	44.6	55.2	64.6	69.8	68.3	60.8	50.5	39.2	27.2	46.8
#WORCESTER	25.9	26.8	34.6	45.8	57.1	65.6	70.6	68.8	61.5	51.6	40.7	28.8	48.2
DIVISION	26.3	27.3	35.5	46.9	58.2	66.8	72.0	70.1	62.6	52.4	41.5	29.4	49.1
COASTAL													
BOSTON AP	29.9	30.3	37.7	47.9	58.8	67.8	73.7	71.7	65.3	55.0	44.9	33.3	51.4
BROCKTON	•	•	•	•	•	•	•	•	•	•	•	•	•
#EAST WAREHAM	29.0	29.1	36.1	45.7	55.9	64.7	71.0	69.7	62.8	52.9	43.2	31.9	49.3
#FALL RIVER	29.7	30.2	37.3	47.3	57.7	66.6	72.6	71.2	64.3	54.4	43.9	32.7	50.7
#HATCHVILLE	•	•	•	•	•	•	•	•	•	•	•	•	•
#IPSWICH	•	•	•	•	•	•	•	•	•	•	•	•	•
#MIDDLEBORO	•	•	•	•	•	•	•	•	•	•	•	•	•
#MIDDLETON	•	•	•	•	•	•	•	•	•	•	•	•	•
NANTUCKET AP	32.5	31.4	36.1	43.8	52.6	60.8	67.5	67.6	62.4	53.8	45.4	35.6	49.1
#NEW BEDFORD	31.7	31.7	38.2	47.3	57.4	65.9	72.0	71.2	65.0	55.9	45.9	34.8	51.4
#NEWBURYPORT	•	•	•	•	•	•	•	•	•	•	•	•	•
#PEMBROKE	•	•	•	•	•	•	•	•	•	•	•	•	•
PLYMOUTH	30.9	31.2	37.9	47.5	57.7	66.4	72.2	70.7	64.0	54.7	45.0	33.8	51.0
#SPOT POND	•	•	•	•	•	•	•	•	•	•	•	•	•
#TAUNTON	28.6	29.4	36.7	46.7	57.3	65.9	71.5	69.8	62.7	52.5	42.6	31.4	49.6
DIVISION	30.0	30.1	36.8	46.2	56.3	65.0	71.0	69.9	63.2	53.7	44.1	33.0	49.9

PRECIPITATION (In.)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
WESTERN													
#ADAMS	3.38	2.54	3.47	4.23	4.17	4.12	4.62	3.43	4.51	3.22	4.26	3.45	45.40
#CHESTERFIELD	3.58	3.13	4.22	3.84	4.42	4.47	4.11	4.04	4.80	4.07	4.37	3.70	48.75
#HEATH	4.00	3.30	4.29	4.17	4.70	4.15	4.32	4.01	4.71	3.98	4.40	3.96	49.99
#HOOSAC TUNNEL	3.87	3.13	4.00	4.20	4.36	3.99	4.24	3.49	4.41	3.37	4.23	3.82	47.11
#PERU	3.74	3.28	4.50	3.80	4.34	4.41	4.59	4.03	4.87	3.86	4.26	3.86	49.54
PITTSFIELD AP	2.97	2.51	3.22	3.87	3.87	4.28	4.89	3.90	4.50	3.25	3.91	3.25	44.42
#PLAINFIELD	3.51	3.01	4.07	3.89	4.80	4.17	4.58	4.01	4.79	4.13	4.31	3.59	48.86
#SOUTH EGREMONT	3.27	2.53	3.33	3.56	3.54	3.87	4.37	4.05	4.08	3.19	3.38	3.45	42.62
STOCKBRIDGE	3.27	2.55	3.44	3.75	3.86	4.12	4.60	4.15	4.62	3.11	3.86	3.20	44.53
#WEST OTIS	3.37	2.61	3.78	3.53	3.73	4.29	4.39	4.51	4.36	3.62	4.04	3.49	45.72
DIVISION	3.39	2.69	3.56	3.90	4.00	3.96	4.41	3.73	4.43	3.25	4.06	3.41	44.79
CENTRAL													
#AMHERST	3.40	2.65	3.76	3.70	3.78	4.05	3.83	3.86	4.33	3.05	3.80	3.35	43.56
#ASHLAND	4.13	3.45	4.35	3.85	3.30	3.55	3.55	3.93	4.02	3.07	4.24	3.86	45.30
#BLUE HILL OBS	4.49	3.73	4.54	4.00	3.48	3.75	3.27	4.05	3.95	3.75	4.53	3.96	47.50
#BOYLSTON	4.26	3.46	4.48	3.94	3.77	3.88	3.61	3.98	3.98	3.38	4.38	3.76	46.88
#CHESTNUT HILL	4.01	3.21	4.16	3.77	3.51	3.61	3.28	3.81	3.87	3.36	4.17	3.64	44.40
#CLINTON	4.33	3.47	4.43	3.82	3.65	3.74	3.64	4.10	3.88	3.36	4.35	3.80	46.57
#FITCHBURG 2 S	4.10	3.21	4.37	4.06	3.82	3.94	3.46	3.25	4.11	3.43	4.28	3.71	45.74
#FRAMINGHAM	4.08	3.39	4.45	3.84	3.27	3.61	3.39	3.91	4.06	3.05	4.24	3.88	45.17
FRANKLIN	3.86	3.19	4.08	3.80	3.31	3.52	3.45	4.12	3.97	3.20	4.27	3.72	44.49
#GARDNER	3.54	2.82	3.83	3.57	3.64	4.00	3.75	3.46	4.38	3.41	3.93	3.27	43.60
#GROTON	3.79	2.97	3.93	3.67	3.54	3.58	3.46	3.24	3.84	3.17	4.00	3.44	42.63
#HARDWICK	3.39	2.69	3.72	3.91	3.73	4.07	4.30	4.13	4.34	3.35	3.91	3.25	44.79
HAVERHILL	3.71	2.93	3.82	3.38	3.21	3.08	3.58	2.93	3.72	2.99	3.85	3.31	40.31
#HOLYOKE	3.56	2.95	3.94	3.98	3.68	4.27	3.70	3.89	4.18	3.18	3.88	3.55	44.76
#HUBBARDSTON	3.14	2.50	3.60	3.47	3.68	4.16	4.06	3.47	4.45	3.39	3.95	2.97	42.84
#LAWRENCE	3.58	2.89	3.85	3.68	3.14	3.13	3.52	3.20	3.81	3.03	3.90	3.23	40.96
#LOWELL	4.02	3.16	4.22	3.69	3.31	3.36	3.41	3.52	3.71	3.16	4.18	3.60	43.34
#MANSFIELD	4.09	3.31	4.30	3.98	3.34	3.48	3.46	4.12	3.91	3.40	4.51	3.64	45.54
#MILFORD	3.82	2.98	3.97	3.84	3.30	3.82	3.67	4.19	4.26	3.18	4.23	3.59	44.85
#NORTHBRIDGE	3.99	3.34	4.47	3.99	3.38	3.56	3.65	4.31	4.04	3.34	4.28	3.89	46.24
#PETERSHAM 3 N	3.64	3.02	3.95	3.88	3.56	4.27	3.75	3.61	4.23	3.26	4.23	3.51	44.91
#SHELBURNE FALLS	3.80	3.22	4.13	4.14	4.09	3.84	4.01	3.53	4.20	3.67	4.48	3.90	47.01
#SOUTHBRIDGE 3 SW	4.07	3.40	4.59	4.21	3.72	4.03	4.14	4.66	4.33	3.62	4.53	3.86	49.16
#SPRINGFIELD ARMORY	3.64	2.69	3.76	4.00	3.88	4.17	3.99	4.39	4.13	3.16	3.80	3.50	45.11
STERLING	4.14	3.21	4.38	4.02	3.81	3.83	3.57	3.66	4.08	3.59	4.46	3.87	46.62
#TURNERS FALLS	3.58	2.77	3.68	3.72	4.03	3.70	3.98	3.60	4.02	3.07	3.99	3.40	43.54
#WESTFIELD	3.60	3.01	4.05	4.08	3.78	4.16	3.88	4.34	4.30	3.50	4.20	3.59	46.49
#WESTON	3.60	2.96	3.89	3.75	3.39	3.62	3.24	4.15	3.82	3.25	4.08	3.37	43.02
WINCHENDON	3.51	2.65	3.75	3.55	3.60	4.17	3.75	3.31	4.13	3.23	3.84	3.30	42.79
WORCESTER AP	3.71	2.92	4.11	3.93	3.79	3.84	3.63	4.24	3.92	3.47	4.26	3.59	45.41
#WORCESTER	3.81	2.98	4.22	3.96	3.84	3.78	3.58	4.08	3.89	3.54	4.16	3.53	45.37
DIVISION	3.86	3.10	4.09	3.84	3.58	3.71	3.60	3.79	3.95	3.23	4.14	3.60	44.49
COASTAL													
BOSTON AP	3.94	3.32	4.22	3.77	3.34	3.48	2.88	3.66	3.46	3.14	3.93	3.63	42.77
BROCKTON	3.56	3.11	3.89	3.68	3.01	3.11	2.95	3.72	3.69	3.09	3.85	3.30	40.96
#EAST WAREHAM	4.30	3.51	4.80	4.28	3.45	3.26	2.88	4.29	3.84	3.44	4.60	4.20	46.85
#FALL RIVER	4.12	3.41	4.50	3.97	3.41	3.20	3.01	4.47	3.52	3.23	4.36	4.08	45.28
#HATCHVILLE	4.20	3.61	4.59	4.19	3.35	3.16	2.69	4.64	3.88	3.54	4.39	3.91	46.15
#IPSWICH	4.41	3.46	4.32	3.79	3.45	3.38	3.27	3.24	3.86	3.34	4.35	3.82	44.69
#MIDDLEBORO	4.12	3.47	4.41	4.09	3.42	3.09	3.17	4.04	3.74	3.35	4.46	3.88	45.24
#MIDDLETON	3.92	3.00	3.93	3.42	3.24	3.05	2.96	3.24	3.64	3.34	3.91	3.63	41.28
NANTUCKET AP	4.22	3.76	4.54	3.76	2.88	2.92	2.71	3.68	3.51	3.70	4.05	3.93	43.66
#NEW BEDFORD	3.84	3.15	4.02	3.73	3.11	2.87	2.24	4.09	3.33	3.05	3.98	3.64	41.05
#NEWBURYPORT	3.82	2.92	3.92	3.71	3.44	3.15	3.67	3.02	3.89	3.20	4.23	3.71	42.68
#PEMBROKE	3.85	3.10	3.98	4.05	3.16	3.29	3.07	4.33	3.80	3.45	4.25	3.64	43.97
PLYMOUTH	4.22	3.46	4.53	4.13	3.43	3.34	2.92	4.26	3.90	3.58	4.50	4.05	46.32
#SPOT POND	4.72	3.73	4.84	4.32	3.73	3.60	3.19	3.98	4.10	3.68	4.77	4.14	48.80
#TAUNTON	3.67	2.99	3.77	3.89	3.55	3.21	3.44	4.36	3.76	3.50	4.32	3.52	43.98
DIVISION	4.04	3.37	4.19	3.86	3.23	3.17	2.85	3.85	3.64	3.33	4.11	3.73	43.37

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
CONCORD AP	H 339 T 5													
	MAX TEMP	31.7	33.5*	41.7	55.9*	69.3	77.7	82.8	80.6	72.4	61.7	47.9	35.1*	57.5
	MIN TEMP	10.6*	11.8*	21.7*	31.7*	41.6	51.3*	56.4*	54.1*	46.2*	35.6*	27.2*	14.8*	33.6
	AVG TEMP	21.2*	22.7*	31.7*	43.8*	55.5	64.5*	69.6*	67.4*	59.3*	48.7*	37.6*	25.0*	45.6
	DEG DAYS	1358*	1184*	1032*	636*	298	75*	6*	50*	177*	505*	822*	1240*	7383
	PRECIP	3.23	2.48*	3.26	3.31	3.17	3.60	3.41	2.96	3.75	2.66	3.72	3.25	38.80
MT WASHINGTON OBSY	H6262 T 6													
	MAX TEMP	14.7	13.9	19.0	29.6*	41.3*	51.1	54.9	53.2	46.8*	37.0	26.8	16.5	33.7
	MIN TEMP	- 2.2*	- 2.8*	4.4	16.3*	28.7*	38.6	43.3	42.1	35.2	24.8	13.8	1.0	20.3
	AVG TEMP	6.3*	5.5	11.7	23.0*	35.0*	44.9	49.1	47.7	41.0*	30.9	20.3	8.8	27.0
	DEG DAYS	1820*	1666*	1652	1260*	930*	603	493	536	720*	1057	1341	1742	13820
	PRECIP	5.44	5.21*	5.74	5.89	5.84	6.50	6.71	6.65	7.00	6.19	6.61	6.31	74.09

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
NORTHERN																										
#BERLIN	16.1	17.2	26.8	40.4	52.4	61.7	66.5	64.3	56.2	46.0	34.4	20.2	41.9	2.92	2.32	3.15	2.94	3.18	3.94	3.61	3.02	3.85	3.12	3.46	2.93	38.44
#BETHLEHEM	16.9	18.5	27.5	41.0	53.9	62.7	67.2	65.3	57.4	46.9	34.4	20.3	42.7	1.80	1.55	2.19	2.66	3.42	4.19	4.15	3.53	4.05	3.18	3.09	2.28	36.09
#DIXVILLE NOTCH	•	•	•	•	•	•	•	•	•	•	•	•	•	3.06	2.70	3.16	3.24	4.03	5.07	4.46	4.11	4.37	3.82	3.90	2.86	44.78
#ERROL	•	•	•	•	•	•	•	•	•	•	•	•	•	2.96	2.47	2.94	3.10	3.44	4.02	3.87	3.16	3.63	3.12	3.62	2.90	39.23
#FIRST CONN LAKE	11.1	11.6	21.0	35.5	48.6	58.2	63.0	60.9	53.3	42.8	30.8	15.8	37.7	3.11	2.80	3.01	3.34	3.86	4.80	4.95	3.61	4.19	3.78	3.94	3.39	44.78
#MILAN 7 N	•	•	•	•	•	•	•	•	•	•	•	•	•	2.87	2.20	2.76	2.98	3.21	4.02	3.58	3.09	3.37	2.94	3.25	2.76	37.03
MT WASHINGTON OBSY	6.3	5.5	11.7	23.0	35.0	44.9	49.1	47.7	41.0	30.9	20.3	8.8	27.0	5.44	5.21	5.74	5.89	5.84	6.50	6.71	6.65	7.00	6.19	6.61	6.31	74.09
#PINKHAM NOTCH	16.8	17.6	25.9	37.8	50.3	58.9	63.4	61.5	54.4	44.8	32.9	19.9	40.4	4.70	3.99	5.60	4.74	4.96	4.98	4.58	4.38	5.01	5.24	5.75	4.78	58.71
YORK POND	•	•	•	•	•	•	•	•	•	•	•	•	•	3.42	2.77	3.71	3.43	3.81	4.61	4.05	3.35	4.36	3.51	3.85	3.28	44.15
DIVISION	15.8	16.9	26.0	39.4	51.9	61.0	65.7	63.6	55.9	45.6	33.6	19.7	41.3	2.97	2.49	3.20	3.34	3.82	4.30	4.22	3.59	4.13	3.62	3.88	3.19	42.75
SOUTHERN																										
CONCORD AP	21.2	22.7	31.7	43.8	55.5	64.5	69.6	67.4	59.3	48.7	37.6	25.0	45.6	3.23	2.48	3.26	3.31	3.17	3.60	3.41	2.96	3.75	2.66	3.72	3.25	38.80
#DURHAM	24.3	25.6	34.0	45.1	56.1	65.1	70.4	68.5	61.0	50.6	39.8	27.6	47.4	3.73	2.93	3.96	3.80	3.32	3.22	3.50	3.22	3.57	3.17	4.17	3.59	42.16
#FITZWILLIAM	•	•	•	•	•	•	•	•	•	•	•	•	•	3.25	2.50	3.61	3.74	3.82	4.25	4.20	3.74	4.15	3.57	4.02	3.24	44.09
#FRANKLIN 1 NW	20.9	22.2	31.3	43.8	55.7	65.1	70.2	67.9	60.2	48.9	37.4	24.5	45.7	3.30	2.67	3.23	3.47	3.94	3.68	3.65	2.99	3.82	2.99	4.03	3.42	41.19
#HANOVER	19.2	20.9	30.5	43.4	55.3	64.4	69.2	67.2	59.4	48.3	36.5	22.9	44.8	2.87	2.40	2.77	3.13	3.30	3.30	4.18	3.07	3.38	2.82	3.36	2.72	37.30
KEENE	22.8	24.2	32.9	45.1	56.3	65.1	69.8	67.8	60.3	49.8	38.5	26.1	46.6	3.35	2.54	3.36	3.62	3.60	3.81	3.70	3.21	3.86	2.79	3.74	3.13	40.71
#LINCOLN	•	•	•	•	•	•	•	•	•	•	•	•	•	3.68	2.83	3.41	3.59	3.71	4.02	4.29	3.75	4.55	3.83	4.20	3.83	45.69
#MANCHESTER	23.7	24.8	33.1	44.6	56.2	65.2	70.2	67.8	59.9	49.7	39.2	27.4	46.8	3.77	2.73	3.80	3.81	3.62	3.55	3.43	3.43	3.73	2.89	4.13	3.54	42.43
#NASHUA 2 NNW	23.8	25.0	33.6	45.1	56.2	65.2	70.3	68.1	60.3	50.1	39.2	27.1	47.0	3.65	2.73	3.74	3.64	3.49	3.73	3.44	3.37	3.79	3.31	4.01	3.39	42.29
NEWPORT	•	•	•	•	•	•	•	•	•	•	•	•	•	3.06	2.50	3.22	3.48	3.46	3.67	3.66	3.08	3.62	2.77	3.56	2.92	39.00
#WOLFEBORO FALLS	•	•	•	•	•	•	•	•	•	•	•	•	•	3.87	3.12	3.93	3.52	3.65	3.36	3.37	2.85	3.64	2.92	4.15	3.88	42.26
DIVISION	21.6	22.8	31.6	43.7	55.4	64.4	69.3	67.2	59.5	49.0	37.8	25.1	45.6	3.44	2.69	3.48	3.52	3.53	3.60	3.71	3.18	3.81	3.01	3.90	3.35	41.22

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
BLOCK ISLAND AP H 110 T 5													
MAX TEMP	38.9	37.7*	43.2	51.8*	61.1	69.6	75.9*	75.6	70.2	61.1	51.7	42.1*	56.6
MIN TEMP	26.3	25.1*	31.2	38.4*	47.6	56.2	63.2	63.6*	57.8	49.2	39.6	29.6*	44.0
AVG TEMP	32.6	31.3*	37.4	45.0*	54.4	62.9	69.6*	69.6*	64.0	55.2	45.7	35.9*	50.3
DEG DAYS	1004	944*	856	600*	329	99	0	16*	78	307	579	902*	5714
PRECIP	3.84	3.29	4.07*	3.61	3.01	2.56*	2.69	3.86*	3.20	3.02	3.71	3.59*	40.45
PROVIDENCE AP H 55 T 7													
MAX TEMP	37.3	38.3*	45.3	56.6*	67.7	76.1*	81.4*	80.0*	73.1*	63.4	52.2*	40.4*	59.3
MIN TEMP	21.0	21.1*	28.6	37.7*	47.2	56.3	62.7*	60.9	53.3	42.9	33.8	23.5*	40.8
AVG TEMP	29.2	29.7*	37.0	47.2*	57.5	66.2*	72.1*	70.5*	63.2*	53.2	43.0*	32.0*	50.1
DEG DAYS	1110	988*	868	534*	236	51*	0	16*	96*	372	660*	1023*	5954
PRECIP	3.81	3.10*	4.14*	3.75*	3.35	2.76*	2.91	3.96	3.52	3.10*	4.11	3.62	42.13

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F)													PRECIPITATION (In.)												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
RHODE ISLAND																										
BLOCK ISLAND AP	32.6	31.3	37.4	45.0	54.4	62.9	69.6	69.6	64.0	55.2	45.7	35.9	50.3	3.84	3.29	4.07	3.61	3.01	2.56	2.69	3.86	3.20	3.02	3.71	3.59	40.45
#KINGSTON	29.2	29.8	36.4	45.8	55.6	64.3	69.9	68.9	62.2	52.4	42.5	31.8	49.1	4.07	3.38	4.27	3.92	3.44	3.02	2.84	4.50	3.74	3.29	4.57	3.78	44.82
PROVIDENCE AP	29.2	29.7	37.0	47.2	57.5	66.2	72.1	70.5	63.2	53.2	43.0	32.0	50.1	3.81	3.10	4.14	3.75	3.35	2.76	2.91	3.96	3.52	3.10	4.11	3.62	42.13
DIVISION	30.3	30.5	37.1	46.7	56.6	65.3	71.2	70.2	63.5	54.1	44.1	33.2	50.2	3.96	3.26	4.24	3.86	3.25	2.95	2.85	4.14	3.54	3.19	4.32	3.72	43.28

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
BURLINGTON AP H 331 T 5													
MAX TEMP	27.4	29.1	38.3	53.4	67.4*	77.1*	81.9*	79.6*	70.6*	58.6	44.4	31.2	54.9
MIN TEMP	8.9	9.6*	20.0*	33.0*	44.2	54.2*	59.0*	56.8	49.1*	38.6*	29.1*	14.8	34.8
AVG TEMP	18.2	19.4*	29.2*	43.2*	55.8*	65.7*	70.5*	68.2*	59.9	48.6*	36.8*	23.0	44.9
DEG DAYS	1451	1277*	1110*	654*	295*	66*	16*	43*	171*	508*	846*	1302	7739
PRECIP	1.95	1.79*	2.11	2.63	2.99	3.49	3.85	3.37*	3.31	2.97	2.62	2.13	33.21

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
NORTHEASTERN																										
#BLOOMFIELD	16.2	17.6	27.1	40.9	53.1	62.3	66.8	64.8	57.3	46.5	34.8	20.2	42.3	2.46	2.11	2.35	3.08	3.49	4.21	4.33	3.65	3.80	3.45	3.46	2.64	39.03
CHELSEA	16.4	17.4	27.4	40.9	52.8	62.2	66.9	64.6	56.8	46.3	34.5	20.5	42.2	2.63	2.22	2.64	3.11	3.51	3.60	4.08	3.13	3.67	3.15	3.25	2.53	37.52
#GILMAN	*	*	*	*	*	*	*	*	*	*	*	*	*	2.15	1.72	2.23	2.64	3.13	3.84	3.51	3.07	3.54	2.74	2.98	2.14	33.69
#NEWPORT	15.3	16.8	26.3	40.3	53.3	62.8	67.2	65.3	57.4	46.6	34.3	19.6	42.1	2.52	2.25	2.44	2.94	3.09	3.76	4.14	3.37	3.65	3.18	3.04	2.50	36.88
#NORTHFIELD	17.7	19.1	28.6	41.6	53.7	62.9	67.4	65.0	57.6	47.1	35.6	21.6	43.2	2.35	2.11	2.43	2.57	3.10	3.36	3.47	3.04	3.34	2.77	3.01	2.45	34.00
#ROCHESTER	*	*	*	*	*	*	*	*	*	*	*	*	*	3.15	2.92	3.44	3.56	3.81	3.78	4.43	3.48	4.01	3.42	3.86	3.29	43.15
#SAINT JOHNSBURY	17.8	19.6	29.4	42.9	55.6	65.0	69.3	67.1	59.2	48.3	36.1	21.7	44.3	2.57	2.14	2.44	2.82	3.23	3.77	3.47	3.27	3.48	3.06	3.15	2.59	35.99
#WEST BURKE	*	*	*	*	*	*	*	*	*	*	*	*	*	2.84	2.45	2.63	2.99	3.57	3.87	3.93	3.33	3.88	3.45	3.39	3.05	39.38
DIVISION	16.3	17.7	27.4	41.0	53.5	62.7	67.2	65.1	57.4	46.8	34.9	20.4	42.5	2.49	2.19	2.49	2.98	3.37	3.83	3.95	3.37	3.69	3.25	3.25	2.58	37.44
WESTERN																										
BURLINGTON AP	18.2	19.4	29.2	43.2	55.8	65.7	70.5	68.2	59.9	48.6	36.8	23.0	44.9	1.95	1.79	2.11	2.63	2.99	3.49	3.85	3.37	3.31	2.97	2.62	2.13	33.21
CORNWALL	20.3	21.7	31.2	44.9	57.1	66.1	71.1	69.0	61.2	50.2	38.3	24.6	46.3	*	*	*	*	*	*	*	*	*	*	*	*	*
#RUTLAND	21.3	22.6	31.7	44.8	56.2	65.0	69.3	67.1	59.7	49.5	38.4	25.6	45.9	2.55	2.06	2.52	2.94	3.61	4.07	4.42	3.32	3.81	2.94	3.16	2.31	37.71
DIVISION	20.3	21.6	30.8	44.2	56.1	65.1	69.7	67.6	60.0	49.4	37.8	24.6	45.6	2.53	2.12	2.63	3.05	3.43	3.73	4.12	3.39	3.69	3.11	3.15	2.54	37.49
SOUTHEASTERN																										
#BELLOWS FALLS	*	*	*	*	*	*	*	*	*	*	*	*	*	3.29	2.72	3.28	3.75	3.62	3.51	3.68	3.16	3.64	2.90	4.00	3.13	40.68
#CAVENDISH	18.7	20.0	29.3	42.5	55.1	63.8	68.1	65.7	58.0	46.9	35.5	22.5	43.8	3.44	3.11	3.62	3.77	3.68	3.97	4.36	3.15	3.59	3.38	3.82	3.25	43.14
#MAYS MILL	*	*	*	*	*	*	*	*	*	*	*	*	*	4.30	3.73	4.80	4.41	4.68	3.96	4.48	3.92	4.60	3.90	4.98	4.23	51.99
#READSBORO 1 SSE	*	*	*	*	*	*	*	*	*	*	*	*	*	4.09	3.24	4.20	4.42	4.41	4.02	4.38	3.78	4.52	3.57	4.39	3.92	48.94
#SEARSBURG MOUNTAIN	*	*	*	*	*	*	*	*	*	*	*	*	*	3.99	3.32	4.26	4.75	4.85	4.70	4.69	4.51	5.17	4.37	4.80	4.20	53.61
#SEARSBURG STATION	*	*	*	*	*	*	*	*	*	*	*	*	*	4.60	3.75	4.58	4.85	4.79	4.31	4.65	4.25	4.80	4.11	5.00	4.63	54.32
#SOMERSET	17.4	16.2	25.0	38.0	49.8	58.6	62.6	60.6	53.7	44.4	33.1	20.3	40.0	4.63	3.73	4.82	4.71	4.52	4.68	4.30	3.86	4.92	4.00	4.84	4.50	53.51
#VERNON	*	*	*	*	*	*	*	*	*	*	*	*	*	3.37	2.71	3.57	3.86	3.85	3.70	3.78	3.68	4.19	3.01	4.01	3.44	43.17
#WHITINGHAM 3 W	*	*	*	*	*	*	*	*	*	*	*	*	*	4.36	3.50	4.43	4.56	4.57	4.13	4.56	3.91	4.65	3.85	4.67	4.40	51.59
WOODSTOCK 3 ENE	19.1	19.7	29.8	43.0	54.9	63.8	68.3	66.3	58.6	47.6	36.4	22.9	44.2	3.33	2.69	3.35	3.52	3.60	3.64	4.15	3.18	3.64	3.16	3.72	3.19	41.17
DIVISION	19.1	19.8	29.0	42.1	54.0	63.1	67.5	65.4	57.8	47.2	35.8	22.7	43.6	3.64	3.00	3.73	3.88	3.80	3.89	4.08	3.36	4.01	3.37	4.09	3.50	44.35

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1963 REVISIONS AND ADDITIONS TO CLIMATOGRAPHY OF THE UNITED STATES NO. 81-23
NEW ENGLAND
TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
CONNECTICUT													
HARTFORD AP-BRAINARD													
* H 15 T 6													
MAX TEMP	36.0	37.6	45.9	59.1	70.9	79.2	83.8	81.6	74.0	64.4	51.3	38.8	60.2
MIN TEMP	18.8	19.4	27.4	37.3	47.2	56.5	61.8	59.9	52.0	41.4	32.2	21.5	39.6
AVG TEMP	27.4	28.5	36.7	48.2	59.1	67.9	72.8	70.8	63.0	52.9	41.8	30.2	49.9
DEG DAYS	1166	1022	877	504	198	30	0	12	102	375	696	1079	6061
PRECIP	3.80	2.97	4.02	3.72	3.57	3.66	4.00	3.87	3.68	3.01	4.15	3.72	44.17
HARTFORD AP-BRADLEY													
G 169 T 6													
MAX TEMP	34.7	36.0	45.3	59.6	72.0	80.5	85.0	82.7	74.7	64.8	50.9	37.6	60.3
MIN TEMP	17.3	18.2	26.7	37.3	47.7	56.9	61.8	59.7	51.8	41.2	31.6	20.2	39.2
AVG TEMP	26.0	27.1	36.0	48.5	59.9	68.7	73.4	71.2	63.3	53.0	41.3	28.9	49.8
DEG DAYS	1209	1061	899	495	177	24	0	6	99	372	711	1119	6172

TABLE II — NORMALS BY CLIMATOLOGICAL DIVISIONS
TEMPERATURE (°F.)

CENTRAL DIVISION						66.6							
COASTAL DIVISION									64.2				
MAINE													

PRECIPITATION (In.)

COASTAL													
EASTPORT	4.11	3.44	3.68	3.50	3.09	3.55	3.07	2.86	3.53	3.62	4.48	3.74	42.67

TABLE I — NORMALS FOR FIRST ORDER STATIONS

MASSACHUSETTS													
NANTUCKET AP													
H 43 T 6													
MAX TEMP	39.2	38.1	42.5	50.6	59.9	67.8	74.3	74.4	69.3	60.8	52.3	42.5	56.0
MIN TEMP	26.8	24.6	29.6	38.0	45.3	54.8	61.7	61.7	56.4	47.8	39.5	29.6	43.0
AVG TEMP	33.0	31.4	36.1	44.3	52.6	61.3	68.0	68.1	62.9	54.3	45.9	36.1	49.5
DEG DAYS	992	941	896	621	384	129	12	22	93	332	573	896	5891

TABLE II — NORMALS BY CLIMATOLOGICAL DIVISIONS
PRECIPITATION (In.)

COASTAL													
PLYMOUTH								4.22					46.28

TABLE I — NORMALS FOR FIRST ORDER STATIONS

NEW HAMPSHIRE													
MT WASHINGTON OBS H6262													
T 6													
AVG TEMP		5.6											
DEG DAYS		1663											13817

TABLE II — NORMALS BY CLIMATOLOGICAL DIVISIONS
TEMPERATURE (°F.)

NORTHERN													
MT WASHINGTON OBSY		5.6											
SOUTHERN													
DURHAM	23.5	24.6	30.0	43.8	54.6	63.4	68.6	66.7	59.3	49.2	38.6	26.7	46.0

TABLE I — NORMALS FOR FIRST ORDER STATIONS

RHODE ISLAND													
BLOCK ISLAND AP													
H 110 T 5													
MAX TEMP	37.9	36.7	42.2	50.8	60.1	69.6	75.9	75.6	70.2	61.1	51.7	42.1	56.2
MIN TEMP	26.3	25.1	31.2	38.4	47.6	56.2	63.2	63.6	57.8	49.2	38.6	29.6	43.9
AVG TEMP	32.1	30.9	36.7	44.6	53.9	62.9	69.6	69.6	64.0	55.2	45.2	35.9	50.1
DEG DAYS	1020	955	877	612	344	99	0	16	78	307	594	902	5804

TABLE II — NORMALS BY CLIMATOLOGICAL DIVISIONS
PRECIPITATION (In.)

RHODE ISLAND DIVISION										3.18	4.33	3.71	43.27

Continued

TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
VERMONT													
BURLINGTON AP													
G 331 T 5													
MAX TEMP	25.4	27.1	36.3	52.4	66.4	77.1	81.9	79.6	70.6	58.6	43.4	30.2	54.1
MIN TEMP	6.9	7.6	17.0	30.0	41.2	51.2	56.0	53.8	46.1	36.6	27.1	12.8	32.2
AVG TEMP	16.2	17.4	26.7	41.2	53.8	64.2	69.0	66.7	58.4	47.6	35.3	21.5	43.2
DEG DAYS	1513	1333	1187	714	353	90	28	65	207	539	891	1349	8269

* NEW STATION

REVISIONS TO FIRST ORDER STATIONS IN TABLE I AFFECT THE SAME STATIONS IN TABLE II.

USCOMM-WB-Asheville, N.C. -3/31/64- 2200