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CLIMATOGRAPHY OF THE UNITED STATES NO. 81-26

DECENNIAL CENSUS OF UNITED STATES CLIMATE—

MONTHLY NORMALS OF TEMPERATURE, PRECIPITATION, AND HEATING DEGREE DAYS

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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

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
ALBANY AP	H 277 T 6													
	MAX TEMP	31.0	32.5*	41.9	56.7*	69.5	78.7	83.7*	81.4	72.9	61.8	47.5	34.5	57.7
	MIN TEMP	14.4	14.8*	24.0	35.7*	46.3	55.8	60.5	58.5	50.3	39.8	30.6	18.5	37.4
	AVG TEMP	22.7	23.7*	33.0	46.2*	57.9	67.3	72.1*	70.0	61.6	50.8	39.1	26.5	47.6
	DEG DAYS	1311	1156*	992	564*	239	45	0	19	138	440	777	1194	6875
	PRECIP	2.47	2.20*	2.72*	2.77	3.47*	3.25*	3.49	3.07	3.58	2.77*	2.70	2.59*	35.08
ALBANY CO	H 19 T 97													
	MAX TEMP	33.3	34.7*	43.8	57.8*	70.2	79.0	84.0*	81.6	73.4	62.6	49.0	36.5	58.8
	MIN TEMP	18.0	18.6*	27.5	38.9*	49.5	58.9	63.9	61.8	54.0	43.5	34.3	22.2*	40.9
	AVG TEMP	25.7	26.7*	35.7	48.4*	59.9	69.0	74.0*	71.7	63.7	53.1	41.7	29.4*	49.9
	DEG DAYS	1218	1072*	908	498*	186	30	0	9	102	375	699	1104*	6201
	PRECIP	2.51	2.26	2.86*	2.90*	3.62	3.74	4.29	3.30	4.00	2.84*	2.90	2.73	37.95
BINGHAMTON AP	H1590 T 4													
	MAX TEMP	30.1	31.0*	39.0	52.9*	65.3	74.4	79.3	77.2	69.6	58.7	44.7	32.7	54.6
	MIN TEMP	15.4	15.3*	22.6	34.1*	44.8	54.6	59.5	57.8	50.3	39.8*	30.3*	18.8*	36.9
	AVG TEMP	22.8	23.2*	30.8	43.5*	55.1	64.5	69.4	67.5	60.0	49.3*	37.5*	25.8*	45.8
	DEG DAYS	1308	1170*	1060	645*	313	78	12	53	192	487*	825*	1215*	7358
	PRECIP	2.50	2.18*	2.89	2.94	3.49	3.85*	3.71	3.57	2.95	3.09	2.51	2.56	36.24
BUFFALO AP	H 693 T 5													
	MAX TEMP	29.8	30.0*	37.6	51.9*	64.5	75.1	80.1	78.6	71.5	60.1	45.5	33.3	54.8
	MIN TEMP	17.2	16.2*	23.4	34.0*	44.1	54.5*	59.4*	58.1*	51.2	41.4*	31.7	21.1*	37.7
	AVG TEMP	23.5	23.1*	30.5	43.0*	54.3	64.8*	69.8*	68.4*	61.4	50.8*	38.6	27.2*	46.3
	DEG DAYS	1287	1173*	1070	660*	344	78*	19*	37*	141	440*	792	1172*	7213
	PRECIP	2.84*	2.72*	3.24*	3.01*	2.95*	2.54*	2.57	3.05*	3.13	3.00	3.60	3.00	35.65
#NEW YORK CENTRAL PARK	H 132 T 6													
	MAX TEMP	39.5	40.3*	47.8	59.6*	71.4	80.2	85.3*	83.3	76.8	66.3	53.7	42.5	62.2
	MIN TEMP	26.9	26.4*	33.2	43.1*	53.4	62.5	68.2*	66.8	60.1	50.3	40.3	29.9	46.8
	AVG TEMP	33.2	33.4*	40.5	51.4*	62.4	71.4	76.8*	75.1	68.5	58.3	47.0	36.2	54.5
	DEG DAYS	986	885*	760	408*	118	9	0	0	30	233	540	893	4862
	PRECIP	3.31*	2.84*	4.01	3.43	3.67	3.31*	3.70	4.44	3.87*	3.14	3.39	3.26	42.37
NEW YORK AP LA GUARDIA	H 19 T 42													
	MAX TEMP	39.6	40.4*	47.8	59.3*	70.7	80.0	84.8*	82.9*	76.2*	65.9	53.8	42.4*	62.0
	MIN TEMP	27.5	26.8*	33.8	43.0*	53.4*	63.0	68.8*	67.8*	61.3	51.3*	41.0	30.3*	47.3
	AVG TEMP	33.6	33.6*	40.8	51.2*	62.1*	71.5	76.8*	75.4*	68.8*	58.6*	47.4	36.4*	54.7
	DEG DAYS	973	879*	750	414*	124*	6	0	0	27*	223*	528	887*	4811
	PRECIP	3.31	3.09	4.23*	3.57*	3.58	3.38*	3.71	5.08*	3.92	3.37*	3.59*	3.39*	44.22
ROCHESTER AP	H 543 T 5													
	MAX TEMP	32.6	32.9	40.2	54.5	67.3	77.8	82.5	80.4	73.1	61.9	47.7	35.5	57.2
	MIN TEMP	17.8	16.9*	24.3	35.7*	46.1	56.0	60.7	59.0	51.6	41.6*	32.5	21.9*	38.7
	AVG TEMP	25.2	24.9*	32.3	45.1*	56.7	66.9	71.6	69.7	62.4	51.8*	40.1	28.7*	48.0
	DEG DAYS	1234	1123*	1014	597*	279	48	9	31	126	415*	747	1125*	6748
	PRECIP	2.40	2.53	3.01	2.67	2.77	2.56	2.84*	2.72*	2.53	2.58	2.51*	2.38	31.50
SYRACUSE AP	H 424 T 5													
	MAX TEMP	31.5*	31.9	40.2	55.1	67.9	77.7*	82.4*	80.5	72.4	61.1	47.2	34.6	56.9
	MIN TEMP	16.5	16.7	24.9	36.8*	47.4	56.8	62.0	59.9	52.3	42.4	33.2	20.9	39.2
	AVG TEMP	24.0*	24.3	32.6	46.0	57.7	67.3*	72.2*	70.2	62.4	51.8	40.2	27.8	48.0
	DEG DAYS	1271*	1140	1004	570	248	45*	6*	28	132	415	744	1153	6756
	PRECIP	3.15	3.13*	3.60	3.08	3.27	2.96*	3.09	3.25*	2.84	3.18	2.90	3.15	37.60

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
WESTERN PLATEAU																										
#ALFRED	23.5	23.4	30.9	43.5	54.7	63.6	67.4	65.7	59.2	49.0	37.1	25.9	45.3	2.28	2.08	3.28	3.05	3.78	3.69	3.46	3.29	2.99	2.85	2.83	2.33	35.91
#ALLEGANY STATE PARK	25.6	25.3	32.6	44.8	55.4	63.8	67.5	66.0	59.8	49.9	38.3	27.6	46.4	2.84	2.75	3.46	3.49	4.27	4.27	4.35	3.62	4.05	3.44	3.77	3.07	43.38
#ANGELICA	24.5	24.2	32.0	44.5	55.3	64.5	68.6	66.7	59.9	49.5	37.9	26.7	46.2	2.11	1.87	2.84	2.72	3.37	3.46	3.38	2.89	2.88	2.52	2.59	2.09	32.72
CORNING	•	•	•	•	•	•	•	•	•	•	•	•	•	1.84	1.69	2.74	2.98	3.92	3.18	3.71	3.85	2.95	2.73	2.41	2.19	34.19
ELMIRA 3 W	27.1	27.0	34.7	47.2	58.4	67.6	72.0	69.7	62.4	51.7	40.5	29.7	49.0	1.88	1.92	2.98	3.00	3.94	3.37	3.58	3.97	2.84	2.70	2.49	2.22	34.89
#HASKINVILLE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.87	1.92	2.81	2.85	3.64	3.46	3.82	3.28	2.81	2.71	2.48	2.06	33.71
#OLEAN	•	•	•	•	•	•	•	•	•	•	•	•	•	2.40	2.22	3.05	3.39	3.85	3.77	3.92	3.00	3.30	2.87	2.88	2.46	37.11
DIVISION	24.7	24.5	32.1	44.7	55.7	64.7	68.7	66.9	60.2	49.8	38.2	27.1	46.4	2.33	2.26	3.13	3.14	3.82	3.68	3.69	3.44	3.20	2.94	2.91	2.51	37.05
EASTERN PLATEAU																										
#BAINBRIDGE	•	•	•	•	•	•	•	•	•	•	•	•	•	2.77	2.57	3.20	3.34	3.77	3.87	4.56	3.71	3.44	3.26	3.08	3.08	40.65
BINGHAMTON AP	22.8	23.2	30.8	43.6	55.1	64.5	69.4	67.5	60.0	49.3	37.5	25.8	45.8	2.50	2.18	2.89	2.94	3.49	3.85	3.71	3.57	2.95	3.09	2.51	2.56	36.24
#BINGHAMTON	26.6	26.4	34.4	46.9	58.2	67.2	71.8	69.8	62.5	51.9	40.6	29.3	48.8	2.44	2.38	3.09	3.08	3.64	3.07	3.81	3.59	3.21	3.04	2.79	2.54	36.68
#COOPERSTOWN	22.7	23.0	31.0	44.1	55.3	64.4	68.7	66.6	59.7	49.4	38.0	25.7	45.7	2.96	2.74	3.22	3.33	3.93	3.77	4.27	3.98	3.70	3.49	3.32	3.07	41.78
#CORTLAND	23.7	23.5	31.3	44.3	55.8	65.2	70.1	68.1	60.6	50.3	38.6	26.7	46.5	2.81	2.83	3.54	3.21	3.78	3.70	4.16	3.74	3.33	3.36	2.99	3.21	40.66
#DELHI	23.7	23.9	31.6	44.2	55.4	64.2	68.4	66.6	59.8	49.5	38.1	26.2	46.0	2.75	2.66	3.09	3.32	3.89	3.92	4.62	4.21	3.90	3.45	3.56	2.86	42.23
#MORRISVILLE	20.8	20.7	29.0	42.3	53.5	62.9	67.4	65.4	58.1	47.7	36.6	24.0	44.0	2.53	2.55	2.98	3.07	3.65	3.57	3.74	3.81	3.44	3.62	2.96	2.80	38.72
#NORWICH 1 WNW	22.3	22.3	30.8	44.0	54.7	64.0	68.4	66.8	59.2	48.6	37.5	25.1	45.3	2.81	2.57	3.39	3.41	3.71	3.89	4.25	3.56	3.52	3.45	3.23	3.00	40.79
#ROXBURY	23.4	23.9	31.8	44.1	55.2	63.8	68.3	66.5	59.2	49.0	38.0	26.2	45.8	3.01	2.62	3.44	3.58	3.98	3.87	4.04	3.90	3.75	3.63	3.51	2.94	42.27
SHERBURNE 1 NW	•	•	•	•	•	•	•	•	•	•	•	•	•	2.39	2.16	2.95	3.20	3.45	3.59	4.13	3.50	3.67	3.26	2.94	2.83	38.07
DIVISION	23.7	24.0	32.1	44.8	56.0	65.0	69.5	67.6	60.3	50.0	38.5	26.5	46.5	2.81	2.61	3.24	3.38	3.78	3.70	4.17	3.89	3.60	3.40	3.24	2.97	40.79
NORTHERN PLATEAU																										
#BIG MOOSE 3 E	•	•	•	•	•	•	•	•	•	•	•	•	•	4.02	3.65	3.74	3.79	4.00	3.88	4.59	3.76	4.73	4.39	4.48	4.48	49.51
#EAGLE FALLS	•	•	•	•	•	•	•	•	•	•	•	•	•	3.26	3.19	3.47	3.75	3.94	3.66	4.57	3.78	4.55	4.30	4.15	4.08	46.70
#HIGHMARKET	•	•	•	•	•	•	•	•	•	•	•	•	•	4.12	3.77	4.09	4.04	4.44	3.62	4.53	4.07	4.98	5.11	4.70	4.55	52.02
#HOFFMEISTER	•	•	•	•	•	•	•	•	•	•	•	•	•	4.12	3.52	4.42	4.28	4.33	4.56	5.04	4.07	4.93	4.62	4.66	4.40	52.95
HOPE	•	•	•	•	•	•	•	•	•	•	•	•	•	3.81	3.32	3.78	3.80	3.67	3.74	4.46	3.53	4.07	3.68	4.08	3.95	45.89
#INDIAN LAKE 2 SW	16.5	16.9	25.4	38.3	50.8	59.9	64.1	62.2	55.0	44.5	32.8	19.6	40.5	3.16	2.78	3.29	3.11	3.35	3.72	4.32	3.18	4.28	3.62	3.69	3.44	41.94
#LAKE PLACID CLUB	14.9	15.6	24.8	38.6	51.3	60.7	64.9	62.7	55.2	44.8	32.1	18.4	40.3	3.13	2.97	3.24	2.70	3.25	3.67	3.96	3.41	3.74	2.92	2.98	3.19	39.16
LOWVILLE	18.3	19.2	28.3	42.7	54.9	64.3	68.7	66.8	59.2	48.5	35.9	22.3	44.1	2.86	2.51	3.01	3.05	3.25	2.80	3.27	3.08	3.25	3.41	2.54	3.36	37.39
#LYONS FALLS	•	•	•	•	•	•	•	•	•	•	•	•	•	3.53	2.92	3.30	3.30	3.72	3.12	4.11	3.27	4.18	4.09	4.12	3.88	43.54
#SOUTH EDWARDS 1 E	•	•	•	•	•	•	•	•	•	•	•	•	•	3.03	2.88	3.05	3.35	3.89	3.47	4.10	3.79	4.26	3.94	3.67	3.69	43.12
#STILLWATER RESERVOIR	14.4	14.5	23.9	38.5	51.7	61.1	65.5	63.9	56.3	45.4	32.8	18.2	40.5	3.81	3.63	4.08	3.97	4.06	3.91	4.82	3.89	4.56	4.45	4.32	4.41	49.91
#TUPPER LAKE SUNMOUNT	16.3	17.0	25.7	39.3	52.1	61.3	65.4	63.4	55.8	45.4	33.1	19.6	41.2	2.44	2.29	2.60	2.64	3.36	3.38	3.97	3.83	3.65	3.12	2.79	2.67	36.74
#WANAKENA RANGER SCHOOL	16.8	17.4	26.2	40.3	52.9	61.6	65.7	63.9	56.6	46.1	33.9	20.2	41.8	3.06	2.83	3.17	3.24	3.61	3.53	4.18	3.48	4.02	3.81	3.50	3.50	41.93
DIVISION	16.4	17.0	25.8	39.6	52.3	61.4	65.7	63.7	56.3	45.8	33.5	19.9	41.5	3.26	2.97	3.35	3.24	3.58	3.58	4.21	3.59	4.06	3.71	3.64	3.63	42.82

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

NEW YORK

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
COASTAL																										
#BRIDGEHAMPTON	32.0	31.9	37.6	46.6	56.1	65.3	71.3	70.7	64.4	55.1	45.3	34.8	50.9	4.20	3.59	4.61	3.62	3.44	2.88	2.92	4.42	3.67	3.55	4.66	4.10	45.66
#NEW YORK CENTRAL PARK	33.2	33.4	40.5	51.4	62.4	71.4	76.8	75.1	68.5	58.3	47.0	36.2	54.5	3.31	2.84	4.01	3.43	3.67	3.31	3.70	4.44	3.87	3.14	3.39	3.26	42.37
NEW YORK AP LA GUARDIA	33.6	33.6	40.8	51.2	62.1	71.5	76.8	75.4	68.8	58.6	47.4	36.4	54.7	3.31	3.09	4.23	3.57	3.58	3.38	3.71	5.08	3.92	3.37	3.59	3.39	44.22
SCARSDALE	30.5	31.2	38.5	49.7	60.5	69.3	74.3	72.7	65.6	55.3	44.2	33.1	52.1	3.36	2.78	4.39	4.10	4.21	3.79	4.51	4.90	4.40	3.81	4.10	3.73	48.08
#SETAUKET	33.0	32.8	39.2	49.5	59.8	68.4	73.8	72.5	66.3	57.1	46.8	35.8	52.9	3.87	3.19	4.26	3.70	3.55	3.40	3.55	4.10	3.91	3.36	4.12	3.64	44.65
DIVISION	32.2	32.4	39.2	49.4	59.9	69.1	74.5	73.1	66.5	56.5	45.9	35.0	52.8	3.64	3.14	4.37	3.75	3.71	3.39	3.78	4.68	3.91	3.46	3.97	3.67	45.47
HUDSON VALLEY																										
ALBANY AP	22.7	23.7	33.0	46.2	57.9	67.3	72.1	70.0	61.6	50.8	39.1	26.5	47.6	2.47	2.20	2.72	2.77	3.47	3.25	3.49	3.07	3.58	2.77	2.70	2.59	35.08
ALBANY CO	25.7	26.7	35.7	48.4	59.9	69.0	74.0	71.7	63.7	53.1	41.7	29.4	49.9	2.51	2.26	2.86	2.90	3.62	3.74	4.29	3.30	4.00	2.84	2.90	2.73	37.95
#BEDFORD HILLS	29.6	30.5	38.2	49.8	60.8	69.3	74.3	72.4	65.1	54.8	43.1	32.1	51.7	3.32	2.85	4.00	4.02	4.07	3.99	5.00	4.57	4.11	3.70	3.92	3.99	47.54
#CAIRO	26.0	27.2	35.8	48.5	59.7	68.9	73.4	71.1	63.3	52.5	41.2	29.3	49.7	2.46	2.33	3.09	3.10	3.58	3.29	3.63	3.13	3.92	3.65	3.38	3.03	38.59
#CARMEL 1 SW	26.4	27.0	35.1	47.2	57.8	66.5	71.7	70.0	62.8	52.8	41.4	29.4	49.0	3.34	2.75	3.76	3.70	4.35	3.90	4.71	4.61	4.24	3.63	4.12	3.59	46.70
#CONKLINGVILLE DAM 1	•	•	•	•	•	•	•	•	•	•	•	•	•	3.45	3.13	3.60	3.47	3.28	3.55	3.97	3.46	3.56	3.33	3.73	3.63	42.16
#HIGH FALLS	•	•	•	•	•	•	•	•	•	•	•	•	•	3.30	2.91	3.82	4.29	3.96	3.93	4.16	4.02	4.03	3.71	3.97	3.73	45.83
#MECHANICVILLE	•	•	•	•	•	•	•	•	•	•	•	•	•	2.51	1.97	2.55	3.01	3.47	3.82	3.97	3.17	3.94	3.06	2.93	2.68	37.08
#MOHONK LAKE	26.0	26.8	34.5	46.7	58.1	66.1	70.8	68.9	61.9	52.0	40.6	28.8	48.4	3.48	3.08	3.91	4.44	4.33	3.98	4.71	4.20	4.26	3.88	4.03	3.66	47.96
#POUGHKEEPSIE	27.3	28.5	37.3	49.5	60.7	69.6	74.6	72.4	64.6	54.0	42.6	30.5	51.0	2.89	2.45	3.09	3.65	3.57	3.48	4.13	3.89	3.67	3.04	3.35	3.00	40.21
#RIFTON 1 N	•	•	•	•	•	•	•	•	•	•	•	•	•	3.33	3.02	3.93	4.39	4.35	4.33	4.59	4.12	4.15	3.60	4.06	3.73	47.60
#SCHENECTADY	22.6	23.7	32.7	46.3	59.1	68.4	73.6	70.8	61.9	50.5	38.8	26.7	47.9	2.57	2.29	2.87	2.84	3.28	3.50	3.46	3.26	3.55	2.91	2.68	2.62	35.83
#SCHUYLERVILLE LOCK 5	•	•	•	•	•	•	•	•	•	•	•	•	•	3.42	2.75	3.25	3.41	3.44	3.73	4.00	3.37	3.93	3.04	3.41	3.15	40.90
#SCOTIA	•	•	•	•	•	•	•	•	•	•	•	•	•	2.47	2.13	2.69	2.83	3.45	3.30	3.67	3.08	3.51	3.01	2.82	2.58	35.54
#SMITHS BASIN	•	•	•	•	•	•	•	•	•	•	•	•	•	2.64	2.14	2.71	3.25	3.19	3.95	4.52	3.03	3.64	2.87	3.29	2.60	37.83
#SPIER FALLS	22.1	23.2	32.7	46.0	58.1	67.4	71.8	69.9	62.1	51.2	39.2	26.2	47.5	3.09	2.64	3.14	3.33	3.26	3.42	3.88	3.17	3.23	2.95	3.38	3.19	38.68
#WARWICK	•	•	•	•	•	•	•	•	•	•	•	•	•	3.00	2.53	3.68	3.73	3.79	4.04	4.36	4.50	3.94	3.30	4.03	3.39	44.29
WEST POINT	28.2	29.3	37.5	49.6	60.6	69.6	74.9	73.0	65.5	54.9	43.2	31.3	51.5	3.34	2.96	4.16	4.08	4.20	3.85	4.40	4.08	4.18	3.56	4.10	3.80	46.71
DIVISION	25.2	26.2	34.7	47.3	58.7	67.5	72.4	70.3	62.6	52.0	40.6	28.5	48.8	3.06	2.62	3.42	3.62	3.82	3.79	4.30	3.83	3.92	3.29	3.61	3.23	42.51
MOHAWK VALLEY																										
#CANAJOHARIE	•	•	•	•	•	•	•	•	•	•	•	•	•	2.31	1.98	2.45	2.82	3.50	3.49	3.84	3.51	3.53	2.86	2.61	2.44	35.34
#DELTA	•	•	•	•	•	•	•	•	•	•	•	•	•	3.72	3.28	3.42	3.68	3.76	3.63	3.90	3.61	3.74	3.94	3.83	3.82	44.33
#DOLGEVILLE	•	•	•	•	•	•	•	•	•	•	•	•	•	3.25	2.78	3.13	3.46	3.92	3.94	4.74	3.69	4.39	3.61	3.36	3.12	43.39
#FRANKFORT	•	•	•	•	•	•	•	•	•	•	•	•	•	2.77	2.37	2.61	3.27	3.50	3.63	4.17	3.50	4.20	3.59	3.42	2.70	39.73
GLOVERSVILLE	21.4	22.6	31.2	44.7	56.8	66.1	70.5	68.3	60.3	49.5	37.7	25.0	46.2	3.41	2.89	3.35	3.61	3.83	3.90	4.27	3.66	4.07	3.64	3.44	3.17	43.24
HINCKLEY 2 W	•	•	•	•	•	•	•	•	•	•	•	•	•	4.26	3.46	3.99	4.06	4.14	3.84	4.36	3.99	4.46	4.34	4.32	4.16	49.38
#JACKSONBURG	•	•	•	•	•	•	•	•	•	•	•	•	•	2.72	2.23	2.61	3.23	3.50	3.65	4.06	3.76	3.91	3.36	3.21	2.62	38.86
#LITTLE FALLS CITY RES	21.0	21.7	30.3	44.1	56.2	65.3	70.1	68.2	60.7	49.8	37.5	24.4	45.8	2.85	2.30	2.82	3.37	3.64	3.92	4.51	3.93	4.36	3.56	3.22	2.83	41.31
#LITTLE FALLS MILL ST	•	•	•	•	•	•	•	•	•	•	•	•	•	3.32	2.89	3.19	3.58	3.70	3.79	4.42	3.77	4.27	3.59	3.48	3.24	43.24
#NEW LONDON LOCK 22	•	•	•	•	•	•	•	•	•	•	•	•	•	3.13	2.98	3.03	3.44	3.65	3.42	3.96	3.54	3.57	3.90	3.64	3.29	41.55
#SALISBURY	18.4	18.9	27.8	41.4	53.2	62.4	66.9	64.9	57.3	46.8	35.1	21.8	42.9	3.71	3.18	3.33	3.94	4.14	4.10	4.94	4.08	4.61	4.23	4.01	3.53	47.80
TRENTON FALLS	•	•	•	•	•	•	•	•	•	•	•	•	•	4.00	3.35	3.70	4.06	4.11	4.20	4.73	3.92	4.47	4.38	4.32	4.17	49.41
#TRIBES HILL	•	•	•	•	•	•	•	•	•	•	•	•	•	3.21	2.53	3.03	3.16	3.65	3.23	3.82	3.20	3.77	3.20	3.00	2.90	38.70
DIVISION	20.7	21.5	30.2	43.8	55.8	65.2	69.8	67.8	60.2	49.3	37.5	24.4	45.5	3.32	2.76	3.14	3.55	3.74	3.92	4.46	3.88	4.13	3.73	3.54	3.23	43.40
CHAMPLAIN VALLEY																										
DANNEMORA	17.9	19.1	27.9	42.0	55.1	64.5	69.1	67.3	59.7	48.5	35.4	21.6	44.0	2.23	2.18	2.28	2.75	3.26	3.45	3.35	3.09	3.28	2.88	2.49	2.48	33.72
#WHITEHALL	•	•	•	•	•	•	•	•	•	•	•	•	•	2.89	2.55	2.86	3.07	3.09	3.42	3.90	3.20	3.43	2.84	3.27	2.92	37.44
DIVISION	18.4	19.6	29.1	43.3	55.9	65.3	69.9	67.9	59.9	48.7	36.5	22.7	44.8	2.26	2.11	2.34	2.72	3.05	3.27	3.39	3.00	3.25	2.72	2.60	2.44	33.15
ST LAWRENCE VALLEY																										
CANTON 3 SE	17.3	18.6	28.7	43.3	55.6	65.1	69.7	67.7	59.6	48.7	36.4	21.9	44.4	2.41	2.32	2.50	3.01	3.35	3.11	3.59	3.18	3.46	3.03	2.90	2.79	35.65
#LAWRENCEVILLE	17.2	18.5	28.4	43.0	55.8	65.2	69.9	67.9	60.0	48.7	36.3	21.5	44.4	1.70	1.82	1.96	2.71	3.39	3.13	3.49	3.23	3.50	3.12	2.36	2.10	32.51
#OGDENSBURG 3 NE	17.9	19.7	29.2	44.0	55.9	65.6	70.7	69.0	60.9	50.2	37.7	23.1	45.3	2.09	1.97	2.26	2.54	2.92	2.60	2.93	2.86	2.96	2.55	2.58	2.44	30.70
DIVISION	17.5	18.9	28.7	43.1	55.3	64.9	69.6	67.6	59.7	48.8	36.6	22.2	44.4	2.32	2.26	2.49	2.93	3.32	2.96	3.49	3.06	3.48	3.11	2.86	2.74	35.02
GREAT LAKES																										
#BATAVIA	•	•	•	•	•	•	•	•	•	•	•	•	•	2.25	2.24	2.68	2.93	3.08	2.62	2.94	2.96	2.73	2.59	2.59	2.30	31.91
BUFFALO AP	23.5	23.1	30.5	43.0	54.3	64.8	69.8	68.4	61.4	50.8	38.6	27.2	46.3	2.84	2.72	3.24	3.01	2.95	2.54	2.57	3.05	3.13	3.00	3.60	3.00	35.65
#CLYDE LOCK 26	•	•	•	•	•	•	•	•	•	•	•	•	•	2.33	2.59	3.02	3.18	3.71	3.06	3.40	3.00	3.20	3.61	3.07	2.69	36.86
FREDONIA	28.0	27.5	34.3	46.5	57.4	67.9	72.2	71.0	64.7	53.9	42.1	31.4	49.7	2.66	2.13	3.02	3.15	3.12	3.16	3.00	3.27	3.80	3.47	3.33	2.64	36.75
#LINDEN	•	•	•	•	•	•	•	•	•	•	•	•	•	2.38	2.47	2.90	2.91	3.15	3.20	2.93	3.04	3.07	2.97	2.95	2.38	34.35
#LOCKPORT 2 NE	25.5	25.3	32.6	44.9	55.9	66.2	71.2	69.6	62.5	51.8	40.0	28.9	47.9	2.44	2.38	2.54	2.69	3.19	2.37	2.61	3.02	2.93	2.73	2.67	2.40	31.97
#MACEDON	•	•	•	•	•	•	•	•	•	•	•	•	•	2.03	2.40	2.73	2.88	3.25	2.75	2.98	2.84	2.73	3.25	2.49	2.33	32.66
#NEWARK	•	•	•	•	•	•	•	•	•	•	•	•	•	1.99	2.18	2.62	2.71	3.35	2.79	3.13	2.72	2.70	3.39	2.60	2.23	32.41
OSWEGO TEACHERS COL	25.1	25.4	32.6	44.0	54.6	64.5	70.5	69.4	62.3	52.2	40.8	29.0	47.5	2.70	2.62	2.80	2.72	2.97	2.28	2.74	2.51	2.78	3.26	3.01	3.17	33.56
ROCHESTER AP	25.2	24.9	32.3	45.1	56.7	66.9	71.6	69.7	62.4	51.8	40.1	28.7	48.0	2.40	2.53	3.01	2.67	2.77	2.56	2.84	2.72	2.53	2.58	2.51	2.38	31.50
#SOUTH WALES EMERY PARK	24.2	23.9	31.5	44.1	54.9	64.7	69.3	67.5	60.5	50.2	38.4	27.3	46.4	3.33	2.93	3.61	3.50	3.47	3.27	3.29	2.86	3.55	3.50	3.91	3.53	40.75
#STAFFORD	25.0	24.8	32.6	45.5	56.9	67.0	71.7	69.7	62.5	51.9	39.7	28.3	48.0	2.21	2.09	2.53	2.79	3.08	2.57	2.92	2.79	3.08	2.57	2.48	2.09	30.97
#WATERTOWN	20.4	21.4	30.8	44.5	56.2	66.1	70.5	69.4	61.6	50.6	38.7	24.8	46.3	3.03	2.57	2.67	3.11	3.39	2.72	3.33	3.21	3.71	3.68	3.78	3.65	38.85
DIVISION	25.5	25.4	32.8	45.2	56.3	66.4	71.1	69.6	62.6	52.0	40.3	28.9	48.0	2.67	2.49	2.93	2.97	3.16	2.76	2.94	2.88	3.15	2.99	3.06	2.83	34.83
CENTRAL LAKES																										
#AUBURN WATER WORKS	26.0	25.3	32.2	44.4	55.7	66.4	72.1	70.8	63.7	52.9	42.4	30.8	48.6	2.27	2.38	2.98	2.69	2.93	2.86	3.18	2.45	2.50	2.91	2.69	2.58	32.42
#BALDWINSVILLE	•	•	•	•	•	•	•	•	•	•	•	•	•	2.94	3.16	3.46	3.04	3.36	3.22	3.19	3.16	3.21	3.52	3.25	3.09	38.60
#CAYUGA LOCK 1	•	•	•	•	•	•	•	•	•	•	•	•	•	2.11	2.29	2.80	2.98	3.31	2.93	3.49	2.74	2.94	3.26	2.78	2.43	34.06
#GENEVA EXP STATION	26.3	26.3	33.9	46.6	57.7	67.8	72.4	70.5	63.3	52.5	41.0	29.4	49.0	2.21	2.39	2.91	2.80	3.12	3.19	3.09	2.75	2.62	3.06	2.45	2.34	32.93
#HEMLOCK	25.4	24.9	32.2	44.9	56.7	66.8	71.2	69.3	62.0	51.6	40.2	29.0	47.9	1.84	1.88	2.93	2.69	3.25	3.03	2.87	2.86	2.58	2.73	2.39	1.99	31.04
#HAYS POINT LOCK 25	•	•	•	•	•	•	•	•	•	•	•	•	•	2.22	2.39	2.83	2.74	3.28	2.98	3.54	2.66	2.91	3.34	2.74	2.54	34.17
PENN YAN 2 SW	26.3	26.2	33.6	46.4	57.7	67.4	72.2	70.6	63.4	52.5	40.8	29.4	48.9	2.06	1.91	2.80	2.81	3.32	2.99	3.72	2.85	2.31	2.79	2.27	1.99	31.82
#SKANEATELES	•	•	•	•	•	•	•	•	•	•	•	•	•	2.43	2.61	3.22	3.10	3.53	3.33	3.64	2.90	3.19	3.44	3.02	2.77	37.18
SYRACUSE AP	24.0	24.3	32.6	46.0	57.7	67.3	72.2	70.2	62.4	51.8	40.2	27.8	48.0	3.15	3.13	3.60	3.08	3.27	2.96	3.09	3.25	2.84	3.18	2.90	3.15	37.60
#WATERLOO	•	•	•	•	•	•	•	•	•	•	•	•	•	2.20	2.27	2.82	2.89	3.27	2.87	3.49	2.65	2.70	3.11	2.51	2.21	32.99
DIVISION	25.7	25.5	33.0	45.7	56.9	66.8	71.4	69.6	62.5	51.9	40.5	29.0	48.2	2.08	2.12	2.83	2.82	3.16	3.08	3.30	3.01	2.69	2.84	2.51	2.22	32.66

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1963 REVISIONS AND ADDITIONS TO CLIMATOGRAPHY OF THE UNITED STATES NO. 81-26 NEW YORK

TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
BINGHAMTON AP													
G1590 T 5													
MAX TEMP	30.1	31.0	39.0	52.9	65.3	73.4	78.3	76.2	68.6	58.7	44.7	32.7	54.2
MIN TEMP	17.4	16.6	23.6	34.1	44.8	53.6	58.5	56.8	50.3	40.8	31.3	20.8	37.4
AVG TEMP	23.8	23.8	31.3	43.5	55.1	63.5	68.4	66.5	59.5	49.8	38.0	26.8	45.8
DEG DAYS	1277	1154	1045	645	313	99	22	65	201	471	810	1184	7286
BINGHAMTON POST OFFICE													
* H 858 T 56													
MAX TEMP	34.2	35.0	43.0	56.9	69.4	78.4	83.1	81.0	73.5	62.5	48.5	36.6	58.5
MIN TEMP	18.9	17.8	25.8	36.8	46.9	56.1	60.4	58.6	51.5	41.3	32.7	22.0	39.1
AVG TEMP	26.6	26.4	34.4	46.9	58.2	67.3	71.8	69.8	62.5	51.9	40.6	29.3	48.8
DEG DAYS	1190	1081	949	543	229	45	0	28	141	406	732	1107	6451
PRECIP	2.44	2.38	3.09	3.08	3.64	3.07	3.81	3.59	3.21	3.04	2.79	2.54	36.68
BUFFALO AP													
G 705 T 4													
MAX TEMP	30.8	31.0	38.6	52.9	65.5	75.1	80.1	78.6	71.5	60.1	46.5	34.3	55.4
MIN TEMP	18.2	17.2	24.4	34.0	44.1	54.5	59.4	58.1	51.2	41.4	31.7	21.1	37.9
AVG TEMP	24.5	24.1	31.5	43.5	54.8	64.8	69.8	68.4	61.4	50.8	39.1	27.7	46.7
DEG DAYS	1256	1145	1039	645	329	78	19	37	141	440	777	1156	7062
NEW YORK KENNEDY INTL AP													
* G 15 T 4													
MAX TEMP	38.0	38.5	45.9	57.5	69.5	79.3	84.7	82.9	76.2	65.9	53.2	41.3	61.1
MIN TEMP	25.6	24.7	31.4	40.4	50.9	60.9	67.1	66.0	59.3	49.3	39.1	28.4	45.3
AVG TEMP	31.8	31.6	38.7	49.0	60.2	70.1	75.9	74.5	67.8	57.6	46.2	34.9	53.2
DEG DAYS	1029	935	815	480	167	12	0	0	36	248	564	933	5219
PRECIP	3.23	2.93	4.15	3.48	3.67	3.35	4.04	4.97	4.16	3.21	3.51	3.23	43.93
SCHENECTADY													
* H 217 T 5													
MAX TEMP	31.2	32.6	41.5	56.2	69.5	78.6	83.5	81.0	72.0	60.8	46.9	34.5	57.4
MIN TEMP	15.9	16.5	25.9	37.5	48.5	57.9	62.9	60.6	52.7	42.0	32.7	20.6	39.6
AVG TEMP	23.6	24.6	33.7	46.9	59.0	68.3	73.2	70.8	62.4	51.4	39.8	27.6	48.4
DEG DAYS	1283	1131	970	543	211	30	0	22	123	422	756	1159	6650
PRECIP	2.57	2.29	2.87	2.84	3.28	3.50	3.46	3.26	3.55	2.91	2.68	2.62	35.83
NEW YORK CENTRAL PARK													
H 132 T 6													
MAX TEMP												42.1	
MIN TEMP												29.7	46.7
AVG TEMP												35.9	
DEG DAYS												902	4871

* NEW STATION

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

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