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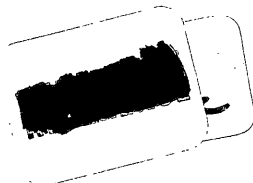
U. S. DEPARTMENT OF COMMERCE

ALEXANDER B. TROWBRIDGE, Acting Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

CLIMATOGRAPHY OF THE UNITED STATES NO. 60 - 28



# CLIMATES OF THE STATES

## NEW JERSEY



WASHINGTON, D. C.

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Climate of New Jersey

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New Jersey, though one of the smaller states, has a varied topography. In the northwestern part a section comprising about one-fifth of the area of the State is known as the Highlands and Kittatinny Valley. This region is traversed by several low mountain ridges extending north-easterly across the State with valleys and rolling hills between. The highest of these ranges is the Kittatinny, which rises from the banks of the Delaware River at the famous Delaware Water Gap. To the eastward the region is studded with numerous lakes, some of the largest of which are Lakes Hopatcong, Mohawk, and Greenwood. Elevations up to 1,800 feet above sea level are found in the Kittatinny Mountains near the New York State line.

South and east of the Highlands is a region of about equal area known as the Red Sandstone Plain, or the Piedmont of New Jersey. It is generally hilly in its northwestern part, becoming rolling and then flat toward the south and southeast. At its northeastern corner are the Palisades, cliffs which rise abruptly from the Hudson River to heights of 200 to 500 feet. The sea-coast section extends from Sandy Hook to Cape May, or about 125 miles. This area is characterized by long stretches of sandy beaches,

now occupied largely by summer resorts. Tide-water marshes become numerous toward the south.

In the southern interior a region known as the Pines is covered with scrubby forests of pine and some oak. The land is low and some of it is swampy. Here are found the large cranberry bogs of New Jersey. In fact, most of the State that lies south of a line connecting Jersey City and Trenton is low and flat with few elevations higher than 100 feet above mean sea level, these being mainly in Monmouth County.

About 30 percent of the area of New Jersey drains into the Delaware River and Delaware Bay, which form the western boundary. Nearly half of Sussex County, in the northwest, drains northward through the Wallkill River into the Hudson River of New York. The remainder of the State drains directly into the Atlantic Ocean through the Passaic, Hackensack, and Raritan Rivers in the north, and a number of small rivers and streams in the south.

Over the southern interior the soil changes from sandy near the coast to clay and marl in the western part. However, there is no steady transition, the change being effected mostly by alternating stretches of the different soils

and combinations of them. In the most productive sections in the southwestern part, light to medium sandy loams predominate. Immense quantities of garden truck for commercial canning, especially tomatoes, are grown in Cumberland, Salem, Gloucester, Camden, and western Burlington Counties.

The extreme length of the State is 166 miles and its greatest width only about 65. The difference in climate is quite marked between the southern tip at Cape May and the northern extremity in the Kittatinny Mountains. The former locality is almost surrounded by water and is fairly well removed from the influence of the frequent storms that cross the Great Lakes region and move out the St. Lawrence Valley. The northern extremity is well within the zone of influence of these storms and, in addition, lies at elevations varying from 800 to 1,800 feet. The influence of these high elevations on the temperature is considerable. The differences between these two localities are particularly marked in the winter, Cape May having a normal January temperature about the same as that of southwestern Virginia, while that of Layton, in the extreme northwest, is similar to that of the northern area of Ohio. Since the prevailing winds are mostly offshore, the ocean influence does not have full effect.

Temperature differences between the northern and southern parts of the State are greatest in winter and least in summer. Nearly every station has registered readings of 100° F. or higher at some time, and all of them have records of zero or below. The highest temperature of record is 110° F. observed July 10, 1936 at Runyon; the lowest, -34° F., January 5, 1904, at River Vale.

In the northern highland area, the average date of last freeze (32° F.) in spring is about May 2, and that of the first in Fall, October 12. On the seacoast corresponding dates are April 6 and November 9, while in the central and southern interior the dates are April 23 and October 19. Freeze-free days in the northern highlands average 163, with 217 along the seacoast and 179 in the central and southern interior.

Northern New Jersey is near enough to the paths of the storms which cross the Great Lakes region and pass down the St. Lawrence Valley to receive part of its precipitation from that source. However, the heaviest general rains are produced by coastal storms of tropical origin. The centers of these storms usually pass some distance offshore, with heaviest rainfall and strongest wind near the coast. On several occasions tropical storms have moved inland along the south Atlantic coast, and then moved northward either through or to the west of New Jersey. Noteworthy storms of this type in recent years include hurricanes Able in 1952, Hazel in 1954, and Connie and Diane in 1955.

The damage by high tides to coastal installations during the passage of a tropical storm is often severe, whether the storm passes offshore or inland.

The average annual precipitation ranges from about 40 inches along the southeast coast to 51

inches in north-central parts of the State. In other sections the annual averages are mostly between 43 and 47 inches. Rainfall is well distributed during the warm months. Heavy 24-hour falls of 7 or 8 inches are occasionally recorded.

Brief periods of drought during the growing season are not uncommon, but prolonged droughts are relatively rare, occurring on the average once in 15 years.

Flooding in New Jersey is usually caused by heavy general rains, at times associated with storms of tropical origin. Local flooding results from ice gorging.

Important flooding occurred along the Raritan River in 1934, 1935, 1938, 1940, and 1948. The Passaic River flooded seriously in 1903, 1936, and 1952, and the Delaware River in 1903, 1936, and 1955.

The season during which measurable quantities of snow are likely to fall extends from about October 15 to April 20 in the Highlands, and from about November 15 to March 15 in the vicinity of Cape May. Average seasonal amounts range from about 13 inches at Cape May to nearly 50 inches in the Highlands. Snowfalls of 10 or more inches in a single storm are occasional occurrences.

The number of days a month with measurable precipitation averages 8 for each of the fall months, September, October, and November, and 9 to 12 for the other months of the year; the average yearly number is 120. Midday relative humidity averages 68 percent along the seacoast and 57 percent or less at inland locations.

Normally, sunshine varies from slightly over one-half of the possible amount in the northern counties to about 60 percent in the south. The prevailing wind is from the northwest from October to April, inclusive, and from the southwest for the other months of the year.

Thirty-four tornadoes were reported in New Jersey for the 50-year period ending with 1965. Two deaths and damage estimated at 2.5 million dollars resulted from these tornadoes. Damage from hail in the 22-year period ending with 1965 totaled about \$500,000, with half of that amount resulting from a single storm which passed through Hunterdon and Warren Counties on June 10, 1956.

Damage from windstorms other than tornadoes amounted to about 1.5 million during the period 1938-1965. The most destructive of these storms was that of November 25, 1950, with the September 1944 hurricane second in the amount of damage, followed by hurricane Hazel in October 1954 in third place.

The most damaging storm on record was the wind storm accompanied by a tidal surge March 6-8, 1962, with the loss of 21 lives and damage which was estimated at 80 million dollars. Tidal damage covered the entire coastline of New Jersey, including Delaware and Raritan Bays.

The leading farm products are eggs, milk, vegetables, and poultry. The farm economy

of the State is dependent upon an adequate water supply which must be met by irrigation in many areas. During periods of drought, as in the summers of 1962-1966, there is insufficient water for irrigation usage. The storage of even a small percentage of the State's runoff water would meet the requirements of industrial and agricultural users. Precipitation is both plentiful and reliable, thus guaranteeing an adequate water supply for industrial uses.

The resort industry along the seacoast serves the New York City and Philadelphia populace, as well as New Jerseyites. The mean daily

maximum temperature for the summer months of June, July, and August at Atlantic City is 77.7° F., giving evidence of the seabreeze effect along the immediate coast of New Jersey. Numerous lakes in the Highlands also provide summer resort facilities, with a moderate climate during the summer months.

The invigorating climate of the north and central portions of the State, with marked changes in weather, generally neither extreme nor severe, provides an excellent setting for industrial and commercial interests, as evidenced by the concentration of population in the northeastern counties.

#### REFERENCES

- (1) Biel, E. R. and A. V. Havens, "Science and Land", 1948-49 Annual Report, Rutgers University, N. J. Agricultural Experiment Station, Meteorology Section.
- (2) Blood, Richard D. W., "A Study of Certain Basic and Applied Wind Problems of the Climate of New Jersey", M. S. Thesis, Rutgers Univ., Sept. 1953.
- (3) Cantlon, J. E., "Vegetation and Microclimates on North and South Slopes of Cushetunk Mountain, New Jersey", Ph.D. Thesis, Rutgers Univ., 1950.
- (4) Havens, A. V., "A Preliminary Dynamic Climatology for New Jersey and Its Application to Human Activities", M. S. Thesis, Rutgers Univ., 1948.
- (5) Janifer, Clarence S., Jr., "A Study of Certain Thermal Features of the Climate of New Jersey", M. S. Thesis, Rutgers Univ., May 1952.
- (6) Marlatt, Wm. E., "A Comparison of Evapotranspiration Computed from Climatic Data with Field and Lysimeter Measurements"; M. S. Thesis, Rutgers, May 1958.
- (7) McGuire, James K., and Wayne C. Palmer, "The 1957 Drought in the Eastern United States", Monthly Weather Review, Vol. 85, No. 9, Sept. 1957.
- (8) Rutgers University Press, "The Economy of New Jersey", a survey published June 20, 1958, including a chapter on "The Climate of New Jersey" by Dr. E. R. Biel.
- (9) Weather Bureau Technical Paper No. 15 - Maximum Station Precipitation for 1, 2, 3, 6, 12, and 24 Hours.
- (10) Weather Bureau Technical Paper No. 16 - Maximum 24-Hour Precipitation in the United States. Washington, D. C. 1952.
- (11) Weather Bureau Technical Paper No. 25 - Rainfall Intensity - Duration - Frequency Curves. For selected stations in the United States, Alaska, Hawaiian Islands and Puerto Rico.
- (12) Weather Bureau Technical Paper No. 29 - Rainfall Intensity - Frequency Regime. Washington, D. C.

#### BIBLIOGRAPHY

- (A) Climatic Summary of the United States (Bulletin W)-1930 edition, Section 90. U. S. Weather Bureau
- (B) Climatic Summary of the United States, New Jersey - Supplement for 1931 through 1952 (Bulletin W Supplement). U. S. Weather Bureau
- (C) Climatic Summary of the United States, New Jersey - Supplement for 1951 through 1960 (Bulletin W Supplement). U. S. Weather Bureau
- (D) Climatological Data - New Jersey. U. S. Weather Bureau
- (E) Climatological Data National Summary. U. S. Weather Bureau
- (F) Hourly Precipitation Data - New Jersey. U. S. Weather Bureau
- (G) Local Climatological Data, U. S. Weather Bureau, for Atlantic City, Newark and Trenton, New Jersey.

## FREEZE DATA

STATION	Freeze threshold temperature	Mean date of last Spring occurrence	Mean date of first Fall occurrence	Mean No. of days between dates		Years of record		No. of occurrences	
				Spring	Fall	Spring	Fall	Spring	Fall
ATLANTIC CITY	32	03-31	11-11	225	10	10	10	10	10
	28	03-18	11-29	256	10	10	10	10	10
	24	03-04	12-04	275	10	10	10	10	10
	20	02-15	12-14	302	10	10	10	10	10
	16	02-09	12-18	312	10	9	10	9	10
BELLEPLAIN ST FOREST	32	04-27	10-14	170	29	29	29	29	29
	28	04-13	10-24	194	29	29	29	29	29
	24	03-31	11-04	218	29	29	28	28	28
	20	03-19	11-20	246	29	29	28	28	28
	16	03-08	12-03	270	29	29	28	28	28
BELVIDERE	32	04-26	10-13	170	30	30	30	30	30
	28	04-12	10-27	198	30	30	30	30	30
	24	03-23	11-14	236	30	30	30	30	30
	20	03-14	11-24	255	30	30	30	30	30
	16	03-07	12-05	273	30	30	30	30	30
BOONTON 1 SE	32	04-28	10-09	164	30	30	30	30	30
	28	04-13	10-22	192	30	30	30	30	30
	24	03-26	11-07	226	30	30	30	30	30
	20	03-15	11-23	253	30	30	30	30	30
	16	03-07	12-06	274	30	30	29	29	29
BURLINGTON	32	04-12	10-30	201	30	30	30	30	30
	28	03-27	11-12	230	29	29	30	30	30
	24	03-17	11-27	255	30	30	30	30	30
	20	03-08	12-07	274	30	30	30	30	30
	16	02-27	12-16	292	30	30	30	26	26
CANOE BROOK	32	05-04	10-10	159	10	10	10	10	10
	28	04-17	10-19	185	10	10	10	10	10
	24	04-06	11-06	214	10	10	10	10	10
	20	03-21	11-11	235	10	10	10	10	10
	16	03-15	11-25	255	10	10	10	10	10
CAPE MAY 3 W	32	03-31	11-17	231	21	21	20	20	20
	28	03-19	11-30	256	21	21	19	19	19
	24	03-05	12-09	279	20	20	19	19	19
	20	02-21	12-16	298	21	21	19	16	16
	16	02-05	12-24	322	21	17	18	10	10
CHARLOTTEBURG	32	05-17	09-25	131	30	30	30	30	30
	28	04-30	10-09	162	30	30	30	30	30
	24	04-15	10-25	193	30	30	30	30	30
	20	03-29	11-06	222	30	30	30	30	30
	16	03-19	11-23	249	30	30	30	30	30
CLAYTON	32	04-12	10-29	200	10	10	10	10	10
	28	03-25	11-07	227	10	10	10	10	10
	24	03-20	11-14	239	10	10	10	10	10
	20	03-04	11-28	269	10	10	10	10	10
	16	02-11	12-15	307	10	10	10	9	9
ELIZABETH	32	04-23	10-19	179	30	30	30	30	30
	28	04-04	11-02	212	30	30	30	30	30
	24	03-22	11-17	240	30	30	30	30	30
	20	03-11	11-29	263	30	30	30	30	30
	16	03-01	12-09	283	30	30	30	29	29
FLEMINGTON 1 NE	32	04-29	10-13	167	30	30	30	30	30
	28	04-16	10-23	190	30	30	30	30	30
	24	03-30	11-09	224	30	30	30	30	30
	20	03-15	11-21	251	30	30	30	30	30
	16	03-09	12-06	272	30	30	30	29	29
FREEHOLD	32	04-23	10-18	178	29	29	30	30	30
	28	04-07	11-02	209	29	29	30	30	30
	24	03-24	11-17	238	29	29	30	30	30
	20	03-16	11-29	258	29	29	30	30	30
	16	03-05	12-07	277	29	29	30	29	29
HAMMONTON 2 NNE	32	04-21	10-16	178	28	28	29	29	29
	28	04-06	10-31	208	28	28	29	29	29
	24	03-21	11-17	241	27	27	28	28	28
	20	03-10	11-28	263	27	27	28	28	28
	16	03-02	12-07	280	26	26	28	27	27
HIGHTSTOWN 1 N	32	04-22	10-12	173	10	10	10	10	10
	28	04-06	11-03	211	10	10	10	10	10
	24	03-20	11-16	241	10	10	10	10	10
	20	03-08	12-06	273	10	10	10	10	10
	16	02-24	12-13	292	10	10	10	10	10
INDIAN MILLS 2 W	32	05-01	10-08	160	29	29	30	30	30
	28	04-19	10-21	185	29	29	30	30	30
	24	04-02	10-31	212	30	30	30	30	30
	20	03-20	11-17	242	30	30	30	30	30
	16	03-09	12-01	267	30	30	30	30	30
JERSEY CITY	32	04-06	11-07	215	29	29	29	29	29
	28	03-24	11-21	242	28	28	29	29	29
	24	03-16	11-28	257	28	28	28	28	28
	20	03-08	12-06	273	28	28	28	28	28
	16	02-26	12-14	291	28	28	28	25	25
LAMBERTVILLE	32	04-23	10-15	175	29	29	29	29	29
	28	04-10	11-02	206	29	29	28	28	28
	24	03-23	11-15	237	28	28	27	27	27
	20	03-13	11-24	256	28	28	27	27	27
	16	03-02	12-08	281	28	28	26	25	25
LAURELTON 1 E	32	04-28	10-14	169	29	29	29	29	29
	28	04-10	10-28	201	28	28	28	28	28
	24	03-26	11-11	230	27	27	28	28	28
	20	03-15	11-27	257	27	27	28	28	28
	16	03-03	12-05	277	27	26	29	29	29
LAYTON 3 NW	32	05-21	09-27	129	30	30	30	30	30
	28	05-09	10-09	153	30	30	30	30	30
	24	04-26	10-17	174	30	30	30	30	30
	20	04-12	10-31	202	30	30	30	30	30
	16	03-24	11-13	234	30	30	30	30	30
LITTLE FALLS	32	04-23	10-14	174	30	30	30	30	30
	28	04-06	10-27	204	30	30	30	30	30
	24	03-25	11-11	231	30	30	30	30	30
	20	03-12	11-28	261	30	30	30	30	30
	16	03-04	12-09	280	30	30	30	30	30
LONG BRANCH 2 N	32	04-13	10-29	199	30	30	30	30	30
	28	03-27	11-14	232	30	30	30	30	30
	24	03-18	11-26	253	30	30	30	30	30
	20	03-06	12-06	275	30	30	30	30	30
	16	02-26	12-13	290	30	30	30	29	29
LONG VALLEY	32	05-08	10-01	146	28	28	29	29	29
	28	04-23	10-14	174	27	27	28	28	28
	24	04-04	10-29	208	27	27	28	28	28
	20	03-21	11-11	235	26	26	28	28	28
	16	03-14	11-28	259	26	26	27	27	27
MOORESTOWN	32	04-16	10-19	186	30	30	30	30	30
	28	03-30	11-04	219	30	30	30	30	30
	24	03-17	11-19	247	30	30	30	29	29
	20	03-08	12-05	272	30	30	30	29	29
	16	02-26	12-14	291	30	30	30	29	26
MORRIS PLAINS 1 W	32	05-09	10-09	153	15	15	16	16	16
	28	04-14	10-21	190	15	15	16	16	16
	24	03-31	11-08	222	15	15	16	16	16
	20	03-20	11-18	243	15	15	16	16	16
	16	03-09	12-06	272	15	15	16	16	16
NEWARK WB AIRPORT	32	04-03	11-08	219	10	10	10	10	10
	28	03-23	11-21	243	10	10	10	10	10
	24	03-18	12-01	258	10	10	10	10	10
	20	03-03	12-12	284	10	10	10	10	10
	16	02-15	12-16	304	10	10	10	10	10
NEW BRUNSWICK EXP STA	32	04-18	10-19	184	30	30	30	30	30
	28	04-04	11-03	213	30	30	30	30	30
	24	03-21	11-18	242	30	30	30	30	30
	20	03-12	12-02	265	30	30	30	30	30
	16	03-05	12-11	281	30	30	30	29	29

## FREEZE DATA

STATION	Freeze threshold temperature	Mean date of last Spring occurrence	Mean date of first Fall occurrence	Mean No. of days between dates	Years of record Spring	No. of occurrences in Spring	Years of record Fall	No. of occurrences in Fall	STATION	Freeze threshold temperature	Mean date of last Spring occurrence	Mean date of first Fall occurrence	Mean No. of days between dates	Years of record Spring	No. of occurrences in Spring	Years of record Fall	No. of occurrences in Fall	
																		STATION
NEWTON	32	05-04	10-05	154	30	30	29	29	SANDY HOOK LB STA	32	03-29	11-21	237	28	28	27	27	
	28	04-20	10-20	183	30	30	29	29		28	03-22	11-29	252	29	29	27	26	
	24	04-06	11-03	211	30	30	30	30		24	03-12	12-09	272	29	29	27	26	
	20	03-23	11-13	235	30	30	30	30		20	03-04	12-13	284	29	29	27	23	
	16	03-15	11-30	260	30	30	30	30		16	02-17	12-21	307	29	27	27	19	
PATERSON	32	04-13	10-27	197	29	29	28	28	SHILOH	32	04-15	10-25	193	29	29	27	27	
	28	03-30	11-12	227	28	28	28	28		28	03-30	11-09	224	28	28	28	28	
	24	03-20	11-22	247	27	27	28	28		24	03-19	11-25	251	29	29	28	28	
	20	03-12	12-02	265	27	27	28	28		20	03-06	12-04	273	28	28	28	28	
	16	03-05	12-10	280	27	27	27	26		16	02-26	12-14	291	27	27	28	25	
PEMBERTON 3 E	32	04-24	10-15	174	30	30	30	30	SOMERVILLE	32	04-27	10-13	169	28	28	28	28	
	28	04-08	10-29	204	30	30	30	30		28	04-15	10-28	196	28	28	29	29	
	24	03-23	11-15	237	30	30	30	30		24	03-30	11-07	222	28	28	29	29	
	20	03-13	11-26	258	30	30	30	30		20	03-16	11-22	251	28	28	30	30	
	16	03-04	12-09	280	30	30	30	29		16	03-10	12-05	270	29	29	30	30	
PHILLIPSBURG	32	04-24	10-16	175	30	30	30	30	SUSSEX 1 SE	32	05-06	10-05	152	28	28	30	30	
	28	04-09	10-31	205	30	30	30	30		28	04-23	10-17	177	28	28	30	30	
	24	03-21	11-15	239	30	30	30	30		24	04-01	10-30	212	28	28	30	30	
	20	03-15	11-28	258	30	30	29	29		20	03-21	11-15	239	28	28	29	29	
	16	03-05	12-08	278	30	30	29	28		16	03-12	11-29	262	29	29	29	29	
PLAINFIELD	32	04-21	10-17	179	30	30	30	30	TRENTON WB CITY	32	04-04	11-08	218	30	30	30	30	
	28	04-04	11-03	213	30	30	30	30		28	03-26	11-21	240	30	30	30	30	
	24	03-23	11-15	237	30	30	30	30		24	03-14	11-30	261	30	30	30	30	
	20	03-14	11-30	261	30	30	30	30		20	03-06	12-09	278	30	30	30	30	
	16	03-03	12-10	282	30	30	30	30		16	02-23	12-15	295	30	30	30	26	
PLEASANTVILLE 1 N	32	04-27	10-15	171	28	28	27	27	TUCKERTON	32	04-17	10-20	186	23	23	26	26	
	28	04-14	10-29	198	28	28	27	27		28	03-31	11-06	220	23	23	25	25	
	24	03-31	11-10	224	27	27	27	27		24	03-18	11-24	251	23	23	25	25	
	20	03-17	11-25	253	27	27	27	27		20	03-11	11-30	264	23	23	26	26	
	16	03-06	12-04	273	27	27	27	27		16	03-03	12-12	284	22	22	24	21	
RIDGEFIELD	32	04-16	10-21	188	30	30	29	29										
	28	03-31	11-07	221	30	30	29	29										
	24	03-20	11-24	249	30	30	29	29										
	20	03-13	12-02	264	30	30	29	29										
	16	03-03	12-12	284	30	30	29	28										

Data in the above table are based on the period 1931-1960, or that portion of this period for which data are available.

⊗ When the frequency of occurrence in either spring or fall is one year in ten, or less, mean dates are not given.

Means have been adjusted to take into account years of non-occurrence.

A freeze is a numerical substitute for the former term "killing frost" and is the occurrence of a minimum temperature at or below the threshold temperature of 32°, 28°, etc.

Freeze data tabulations in greater detail are available and can be reproduced at cost.

\* NORMALS BY CLIMATOLOGICAL DIVISIONS

Taken from "Climatology of the United States No. 81-4, Decennial Census of U. S. Climate"

TEMPERATURE (°F)

PRECIPITATION (In.)

STATIONS (By Divisions)	TEMPERATURE (°F)												PRECIPITATION (In.)													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<b>NORTHERN</b>																										
BELVIDERE	29.9	31.3	39.3	51.1	62.2	70.6	75.1	72.9	66.0	54.9	42.8	31.9	52.3	3.63	3.12	4.08	4.24	4.03	4.44	5.30	4.99	3.87	3.42	3.86	3.66	48.54
BOONTON 1 SE	28.9	29.5	37.3	49.0	59.1	67.9	72.8	70.8	63.5	53.3	42.5	31.5	50.5	3.24	2.73	3.86	3.86	4.16	3.89	4.26	4.93	4.35	3.40	4.02	3.42	46.10
CANOE BROOK	29.0	29.6	37.6	48.7	58.9	68.0	73.0	71.1	64.2	53.7	43.0	31.2	50.7	3.66	2.96	4.30	4.02	4.15	4.03	4.55	5.23	4.32	3.41	4.10	3.65	48.38
CHARLOTTEBURG	28.6	29.1	36.6	48.0	58.4	66.5	70.9	69.2	62.4	52.3	42.0	30.8	49.6	3.67	3.17	4.47	4.21	4.15	4.26	4.73	4.96	4.41	3.84	4.49	4.12	50.46
CHATHAM	*	*	*	*	*	*	*	*	*	*	*	*	*	3.72	3.17	4.42	4.12	4.17	4.01	4.98	5.25	4.39	3.37	4.19	3.96	49.35
ELIZABETH	32.8	33.3	40.9	51.9	62.2	70.8	75.8	74.1	67.2	56.7	45.7	34.7	53.8	3.97	3.28	4.49	3.95	4.06	3.76	4.51	4.97	4.34	3.53	3.88	3.60	48.34
FLEMINGTON 1 NE	31.5	32.3	40.1	51.2	61.8	70.6	75.4	73.4	66.6	55.8	44.3	33.3	53.0	3.32	2.78	3.99	3.80	4.01	3.80	4.52	5.02	3.59	3.32	3.74	3.42	45.31
JERSEY CITY	32.5	32.7	39.8	50.5	61.2	70.1	75.3	73.8	66.9	56.7	45.7	34.8	53.3	3.37	2.90	4.03	3.59	3.75	3.45	4.17	4.62	3.81	3.18	3.42	3.29	43.58
LANDBERVILLE	31.7	32.5	39.8	51.1	61.6	70.1	74.8	73.0	66.2	55.5	44.4	33.7	52.9	3.34	2.72	4.06	3.64	4.08	3.84	4.51	5.14	3.29	3.00	3.71	3.38	44.71
LAYTON 3 NW	26.9	27.8	35.9	47.7	58.3	67.2	71.6	69.7	62.3	51.7	40.2	28.8	49.0	2.87	2.49	3.47	3.91	3.94	4.09	4.90	4.42	4.08	3.40	3.64	2.92	44.13
LITTLE FALLS	31.1	31.7	39.3	50.7	61.2	69.7	74.8	72.8	65.8	55.4	44.6	33.6	52.6	3.65	3.07	4.30	4.26	4.33	4.25	4.54	5.09	4.55	3.70	4.28	3.90	49.92
LONG VALLEY	*	*	*	*	*	*	*	*	*	*	*	*	*	3.54	3.02	4.28	3.97	4.17	4.13	5.20	5.06	3.92	3.57	4.25	3.79	48.90
NEWARK WB AIRPORT	33.3	33.7	41.5	52.3	62.5	72.3	77.3	75.4	68.3	57.6	45.9	35.3	54.6	3.33	2.80	4.09	3.51	3.65	3.44	3.67	4.43	3.76	3.11	3.37	3.22	42.38
NEW MILFORD	*	*	*	*	*	*	*	*	*	*	*	*	*	3.44	2.81	3.99	3.84	3.85	3.76	3.38	4.45	3.75	3.19	3.66	3.46	44.58
NEWTON	27.5	28.1	36.4	48.3	59.0	67.4	72.2	70.1	63.0	52.5	41.2	29.7	49.6	3.04	2.57	3.45	3.83	3.95	4.30	4.87	4.54	3.99	3.42	3.63	3.20	44.79
PATERSON	31.6	32.1	39.5	51.1	61.9	70.7	75.7	73.6	66.4	56.1	45.1	34.1	53.2	3.60	3.15	4.45	4.07	4.30	4.21	4.63	4.87	4.21	3.47	4.04	3.83	48.83
PHILLIPSBURG	30.5	31.4	39.2	50.7	61.4	70.0	74.3	72.4	65.5	54.5	43.4	32.7	52.2	3.68	3.06	4.09	4.07	4.15	4.26	5.29	5.04	4.00	3.42	3.67	3.64	48.37
PLAINFIELD	31.9	32.5	39.9	50.9	61.2	69.9	75.1	73.1	66.2	55.9	44.8	34.0	52.9	3.61	3.02	4.31	3.87	4.14	4.33	4.61	5.19	4.33	3.46	3.83	3.59	48.29
SOMERVILLE	31.3	32.0	39.5	50.6	61.1	69.8	74.6	72.8	66.0	55.3	43.9	33.1	52.5	3.27	2.75	3.97	3.65	3.81	3.88	4.74	5.01	3.77	3.35	3.66	3.33	45.19
SUSSEX 1 SE	27.7	28.9	37.0	49.1	59.9	68.5	72.9	70.8	63.5	53.2	42.0	30.2	50.3	3.37	2.72	3.40	3.95	3.77	4.09	5.07	5.04	3.92	3.28	3.61	3.36	45.78
WOODCLIFF LAKE	*	*	*	*	*	*	*	*	*	*	*	*	*	3.57	2.89	4.13	3.98	3.95	3.52	4.44	4.71	3.93	3.28	3.87	3.59	45.86
DIVISION	30.2	30.9	38.6	50.0	60.5	69.2	74.0	72.1	65.0	54.5	43.5	32.4	51.7	3.47	2.92	4.10	3.91	4.07	4.01	4.65	4.91	4.06	3.42	3.88	3.56	46.96
<b>SOUTHERN</b>																										
ATLANTIC CITY WB AP	34.8	34.7	41.1	51.0	61.3	70.0	75.1	73.7	67.2	57.2	46.7	36.6	54.1	3.56	3.13	3.91	3.41	3.51	2.83	3.72	4.90	3.31	3.20	3.66	3.22	42.36
BELLEPLAIN ST FOREST	*	*	*	*	*	*	*	*	*	*	*	*	*	3.47	3.18	4.42	3.47	3.83	3.39	4.84	5.75	3.86	3.69	4.03	3.65	47.58
BURLINGTON	34.2	34.9	42.2	53.3	64.2	72.8	77.2	75.5	68.8	58.0	46.6	36.0	55.3	3.27	2.90	4.34	3.44	3.76	3.65	4.24	4.84	3.65	3.35	3.66	3.06	44.16
FREEMOLD	32.7	33.0	40.0	50.8	61.6	70.2	74.9	73.1	66.5	56.1	45.5	34.7	53.3	3.58	3.14	4.24	3.58	4.43	3.68	4.24	4.76	3.78	3.59	3.96	3.65	46.03
HAWMONTON 2 NNE	34.2	34.5	41.9	52.3	62.7	71.6	76.2	74.7	67.7	57.2	46.7	37.1	54.7	3.57	3.25	4.26	3.60	3.92	3.95	4.56	5.64	3.77	3.69	3.74	3.73	47.83
HIGHTSTOWN 1 N	32.4	32.9	40.2	50.9	61.4	69.9	74.8	72.9	66.2	55.9	45.2	34.3	53.1	3.22	2.73	3.82	3.38	3.72	3.83	4.46	4.52	3.99	3.32	3.39	3.03	43.41
INDIAN HILLS 2 W	33.3	33.8	40.7	51.4	62.0	70.2	74.7	72.9	66.3	55.9	45.2	34.8	53.4	3.62	3.11	4.28	3.42	3.88	3.90	4.77	5.46	3.60	3.41	3.71	3.23	45.89
LAURELTON 1 E	33.2	33.3	40.2	50.5	61.1	69.6	74.4	72.4	65.8	55.5	45.2	35.0	53.0	3.76	3.36	4.34	3.76	3.87	3.40	4.48	4.85	3.75	4.00	4.16	3.32	47.05
MOORESTOWN	33.0	33.4	40.7	51.4	61.7	70.2	75.1	73.1	66.4	55.9	45.0	34.8	53.4	3.12	2.73	3.81	3.44	4.07	3.56	4.17	4.75	3.75	3.06	3.61	2.92	42.98
NEW BRUNSWICK EXP STA	32.3	32.8	40.2	51.1	61.6	70.1	75.0	73.2	66.5	56.1	45.3	34.2	53.2	3.34	2.77	3.75	3.48	3.75	3.63	4.53	4.70	4.06	3.16	3.64	3.17	43.98
PENBERTON 3 E	33.9	34.3	41.6	52.3	62.7	71.0	75.5	73.8	67.4	56.8	46.3	35.6	54.3	3.30	2.88	3.85	3.45	3.76	3.70	4.65	5.05	3.77	3.27	3.51	3.08	44.27
SHILOH	34.3	34.9	42.2	52.7	63.0	71.7	76.4	74.6	68.0	57.3	46.3	36.1	54.8	3.48	2.89	3.76	3.11	3.96	3.41	4.29	4.95	3.94	3.16	3.73	3.06	43.74
TRENTON WB CITY	33.1	33.4	40.7	51.7	62.3	71.0	76.0	73.9	67.1	56.8	45.8	35.2	53.9	3.10	2.59	3.84	3.21	3.62	3.60	4.18	4.77	3.50	2.84	3.16	2.87	41.26
DIVISION	33.4	33.7	40.9	51.4	62.1	70.7	75.4	73.6	67.0	56.5	45.7	35.3	53.8	3.45	2.99	4.08	3.45	3.78	3.62	4.34	5.06	3.79	3.35	3.74	3.26	44.91
<b>COASTAL</b>																										
ATLANTIC CITY	36.0	35.7	41.1	49.9	59.5	69.0	74.2	73.7	68.4	58.7	48.3	38.3	54.4	3.75	3.38	4.01	3.38	3.16	3.04	3.46	5.14	3.40	3.39	3.79	3.48	43.78
LONG BRANCH, 2 N	33.0	33.0	39.8	49.6	59.8	69.1	74.4	72.8	66.2	56.2	45.7	35.3	52.9	3.78	3.54	4.37	3.63	3.49	3.41	4.25	5.25	3.92	3.71	3.61	3.63	46.79
DIVISION	34.5	34.3	40.5	50.0	60.0	69.4	74.6	73.6	67.8	58.0	47.4	37.0	53.9	3.52	3.12	3.92	3.32	3.26	3.07	3.88	4.94	3.67	3.30	3.59	3.34	42.93

\* Normals for the period 1931-1960. Divisional normals may not be the arithmetical average of individual stations published, since additional data for shorter period stations are used to obtain better areal representation.

TEMPERATURE

PRECIPITATION

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
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**CONFIDENCE LIMITS**  
In the absence of trend or record changes, the chances are 9 out of 10 that the true mean will lie in the interval formed by adding and subtracting the values in the following table from the means for any station in the State. Because of the wider variation in mean precipitation, the corresponding monthly means and annual mean must be substituted for "p" in the precipitation table below to obtain mean precipitation confidence limits.

1.4	1.2	1.3	.8	.7	.6	.5	.6	.7	.8	.8	.8	.4	25√p	20√p	25√p	25√p	29√p	30√p	37√p	37√p	47√p	37√p	34√p	25√p	32√p
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COMPARATIVE DATA

Data in the following table are the mean temperature and average precipitation for New Brunswick, New Jersey, for the period 1906-1930 and are included in this publication for comparative purposes:

30.7	30.7	40.2	50.0	60.2	68.8	73.7	71.6	66.1	55.1	43.7	32.8	52.0	3.33	3.30	3.27	3.70	3.83	3.77	5.16	5.17	3.20	3.54	2.63	3.53	44.43
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LATITUDE 39° 27' N  
 LONGITUDE 74° 35' W  
 ELEVATION (ground) 64 Feet

# NORMALS, MEANS, AND EXTREMES

ATLANTIC CITY, NEW JERSEY  
 NATIONAL AVIATION FACILITIES  
 EXPERIMENTAL CENTER

Month	Temperature								Normal degree days	% Precipitation										Relative humidity				Wind			Mean number of days																
	Normal				Extremes $\emptyset$					Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet					Fastest mile				Pct. of possible sunshine	Mean sky cover sunrise to sunset	Sunrise to sunset			Temperatures												
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Mean total									Maximum monthly	Year	Maximum in 24 hrs.	Year	Mean hourly speed	Prevailing direction	Speed	Direction	Year			Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	90° and above	32° and below	32° and below	0° and below					
	(a)	(b)	(b)	(b)	2	2	(b)	(b)									23	23	23	23	22	22	2	2	2			2	8	5					6	8	8	8	23	22	8	8	2
J	42.9	26.6	34.8	65	1966+	-	8	1965	936	3.56	7.71	1948	0.26	1955	2.86	1944	5.5	15.9	1961	14.4	1964	73	74	58	69	13.0	W	WNW					58	5.9	9	9	13	11	2	2	2	2	
F	43.3	28.1	34.7	65	1965	0	1966	848	3.13	5.98	1958	1.46	1946	2.59	1966	3.9	14.9	1958	10.0	1947	78	80	57	70	12.2	W	W					52	6.4	9	9	15	10	1	1	1	1		
M	49.7	32.4	41.1	67	1965	13	1965	741	3.91	6.80	1953	0.62	1945	2.22	1962	3.3	13.4	1960	9.5	1960	76	78	51	60	12.6	W	W					50	6.5	9	8	14	11	1	1	1	1		
A	60.3	41.7	51.0	85	1965	24	1965	420	3.41	7.95	1952	1.24	1945	3.37	1952	0.4	3.2	1965	3.2	1965	81	74	52	66	12.6	W	W					59	6.2	3	3	10	14	1	1	1	1		
M	71.0	51.5	61.3	93	1965	25	1966	133	3.51	11.51	1948	0.40	1957	2.13	1959	0.0	0.0				81	77	53	66	10.7	W	W					59	6.2	3	3	12	10	0	0	0	0		
J	79.2	60.7	70.0	96	1966+	39	1966	15	2.83	5.73	1951	0.10	1954	2.91	1952	0.0	0.0				85	79	51	69	9.9	W	W					62	5.9	8	10	12	9	0	0	0	0		
J	83.8	66.3	75.1	104	1966	46	1965	0	3.72	13.09	1959	1.30	1957	6.46	1959	0.0	0.0				87	82	51	70	9.5	S	S					65	6.1	8	10	13	9	0	6	4	7	0	0
A	82.2	65.1	73.7	95	1966	40	1965	0	4.90	11.02	1948	0.34	1943	6.40	1966	0.0	0.0				88	86	55	74	8.9	S	S					62	6.2	8	9	14	9	0	6	4	7	0	0
S	76.0	58.4	67.2	92	1965	35	1965	39	3.31	6.27	1966	0.46	1953	3.98	1954	0.0	0.0				87	87	59	78	9.7	E	ENE					60	5.6	10	8	12	7	0	2	2	2	0	0
O	66.5	47.8	57.2	78	1966	26	1965	251	3.20	7.50	1943	0.15	1963	2.95	1958	T	T	1962+			83	86	51	71	10.5	W	W					65	4.7	14	7	10	7	0	0	0	4	0	
N	55.5	37.9	46.7	76	1965	11	1964	549	3.66	8.60	1944	0.72	1946	3.93	1953	0.2	5.2	1953	3.2	1953	79	83	55	74	11.8	W	W					58	5.8	10	7	13	9	1	1	1	1	1	
D	45.1	28.1	36.6	72	1966	6	1964	880	3.22	6.57	1948	0.62	1955	2.75	1951	2.8	8.6	1960	7.5	1960	80	83	57	75	11.2	W	WNW					48	6.0	10	7	14	9	1	1	1	1	1	
YR	63.0	45.2	54.1	104	JUL. 1966	-	8	JAN. 1965	4812	42.36	13.09	JUL. 1959	0.10	JUN. 1954	6.46	JUL. 1959	16.1	15.9	JAN. 1961	14.4	JAN. 1964	81	80	54	70	11.0	S			58	5.9	105	104	156	112	4	24	44	22	19	120	3	

$\emptyset$  For period November 1964 through the current year.  
 Means and extremes in the above table are from existing or comparable location(s). Annual extremes have been exceeded at other locations as follows:  
 Lowest temperature -9 in February 1934; maximum monthly precipitation 14.87 in August 1882; minimum monthly precipitation .01 in September 1941;  
 maximum precipitation in 24 hours 9.21 in October 1903; maximum monthly snowfall 27.9 in February 1899; maximum snowfall in 24 hours 18.0 in February 1902. % Based on U.S. Naval Air Station and Weather Bureau Airport Station records. \$ Beginning with August 1943.

The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

LATITUDE 40° 42' N  
 LONGITUDE 74° 10' W  
 ELEVATION (ground) 7 Feet

NEWARK, NEW JERSEY  
 NEWARK AIRPORT

Month	Temperature								Normal degree days	Precipitation										Relative humidity				Wind			Mean number of days																	
	Normal				Extremes					Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet					Fastest mile				Pct. of possible sunshine	Mean sky cover sunrise to sunset	Sunrise to sunset			Temperatures													
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Mean total									Maximum monthly	Year	Maximum in 24 hrs.	Year	Mean hourly speed	Prevailing direction	Speed	Direction	Year			Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	90° and above	32° and below	32° and below	0° and below						
	(a)	(b)	(b)	(b)	23	23	(b)	(b)									13	13	13	13	25	25	23	23	23			23	23	22														
J	39.5	25.0	32.3	74	1950	0	1957+	1014	3.33	5.57	1953	0.81	1955	1.78	1962	7.6	22.2	1961	13.7	1961	69	72	58	64	11.4	NE					6.4	8	7	16	11	2	*	3	0	7	25	*		
F	40.7	24.7	32.7	76	1949	-	7	1943	904	2.80	4.47	1956	1.89	1959	2.45	1961	7.5	23.3	1961	20.0	1961	68	70	56	60	11.5	NW					6.3	7	8	13	10	2	*	2	0	5	22	*	
M	48.8	32.1	40.5	89	1945	6	1943	760	4.09	6.29	1954	1.12	1966	2.37	1962	5.3	26.0	1956	17.6	1956	68	68	52	59	12.1	NW					6.1	8	9	14	12	1	*	2	0	1	14	0		
A	60.9	41.7	51.3	91	1960+	23	1954	411	3.51	6.41	1958	0.90	1963	2.01	1958	0.6	4.1	1957	4.1	1957	70	69	49	60	11.2	WNW					6.5	7	9	14	12	*	1	1	1	1	1	0	2	0
M	72.1	51.9	62.0	98	1962	33	1947	127	3.65	4.86	1966	0.52	1964	2.36	1966	T	T	1956	T	1956	75	71	51	61	10.1	SW					6.4	7	11	13	12	0	*	2	1	0	0	0		
J	81.3	61.2	71.3	102	1952+	43	1945	9	3.44	3.89	1962	0.49	1966	1.52	1959	0.0	0.0		0.0		77	73	52	62	9.4	SW					5.9	7	12	11	10	0	5	2	2	6	0	0		
J	86.1	66.5	76.3	105	1949	52	1945+	0	3.67	7.95	1961	0.89	1966	3.15	1961	0.0	0.0		0.0		78	74	51	63	8.9	SW					6.0	7	13	11	10	0	6	1	9	0	0			
A	83.8	64.9	74.4	103	1948	51	1942	0	4.43	11.84	1961	1.50	1964	4.17	1959	0.0	0.0		0.0		80	78	53	66	8.7	SW					5.9	8	12	11	9	0	6	1	9	0	0			
S	77.0	57.6	67.3	105	1953	35	1947	39	3.76	7.88	1966	1.30	1964	4.71	1966	0.0	0.0		0.0		80	80	53	67	9.0	SW					5.6	10	9	11	8	0	2	1	2	0	0			
O	66.2	47.0	56.6	92	1949	30	1948	276	3.11	6.70	1955	0.21	1963	2.65	1966	T	0.3	1952	0.3	1952	78	78	52	67	9.4	SW					5.2	12	8	11	8	0	2	1	2	0	0			
N	53.5	37.3	45.4	85	1950	15	1955	588	3.37	5.68	1963	1.48	1965	2.09	1966	0.4	2.9	1945	2.9	1945	73	76	55	65	10.1	SW					6.0	9	9	13	10	*	*	3	3	6	8	0		
D	42.0	27.4	34.7	72	1946	-	1	1942	939	3.22	5.74	1957	0.27	1955	1.83	1960	8.3	29.1	1947	26.0	1947	71	73	58	65	10.6	SW					6.2	9	8	14	11	2	*	*	2	2	6	22	*
YR	62.7	44.8	53.7	105	SEP. 1953+	-	7	FEB. 1943	5067	42.38	11.84	AUG. 1955	0.21	OCT. 1963	4.71	SEP. 1966	29.7	29.1	DEC. 1947	26.0	DEC. 1947	74	73	53	63	10.2	SW			6.1	99	114	152	122	8	25	22	25	18	94	*			

(b) Climatological standard normals (1931-1960) Revised December 1966.  
 Means and extremes in the above table are from existing or comparable location(s). Annual extremes have been exceeded at other locations as follows:  
 Lowest temperature -14 in February 1934; maximum monthly precipitation 22.48 in August 1843; minimum monthly precipitation 0.07 in June 1949.

LATITUDE 40° 13' N  
 LONGITUDE 74° 46' W  
 ELEVATION (ground) 56 Feet

# NORMALS, MEANS, AND EXTREMES

TRENTON, NEW JERSEY  
 FEDERAL BUILDING

Month	Temperature								Normal degree days	Precipitation								Relative humidity		Wind					Mean number of days																				
	Normal				Extremes					Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet					Mean hourly speed	Prevailing direction	Fastest mile			Pet. of possible sunshine	Mean sky cover sunrise to sunset	Sunrise to sunset					Temperatures											
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Mean total									Maximum monthly	Year	Maximum in 24 hrs.	Year	Mean total			Maximum monthly	Year	Mean total			Maximum monthly	Year	Speed	Direction #	Year	Pet.	Clear	Partly cloudy	Cloudy	Precipitation (1/16 inch or more)	Snow, Sleet (1/16 inch or more)	% Thunderstorms	% Heavy fog	90° and above	50° and below	32° and below	0° and below
	(a)	(b)	(b)	34	34	(b)	(b)	34									(b)	34	34	34	34			34	34	34			34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
J	40.0	26.2	33.1	72	1950	- 3	1936	989	3.10	6.00	1936	0.52	1955	2.03	1961	5.8	16.1	1961	10.1	1961	9.8	NW	48	N	1958	51	6.3	8	8	15	12	2	*	*	0	8	24	*							
F	40.9	25.9	33.4	73	1949	-14	1934	885	2.59	5.56	1939	1.28	1943	2.45	1966	6.7	23.1	1934	13.0	1958	10.2	NW	49	W	1960+	55	6.1	8	8	12	10	2	*	*	0	5	21	*							
M	48.8	32.5	40.7	86	1945	8	1943	753	3.84	7.53	1953	1.17	1966	2.55	1953	4.4	21.5	1958	14.3	1958	10.7	NW	43	NW	1950	56	5.9	9	8	14	12	1	*	*	0	1	14	0							
A	61.3	42.0	51.7	91	1941	24	1954	399	3.21	5.93	1952	0.83	1963	2.46	1952	0.4	4.2	1956	4.2	1956	10.4	S	43	N	1957	58	6.3	7	9	14	12	*	*	0	0	2	0	0							
M	72.3	52.3	62.3	96	1962	34	1947	121	3.62	8.03	1948	0.25	1964	2.68	1966	T	T	1963	T	1963	9.0	S	37	NW	1953+	62	6.3	7	11	13	11	0	5	1	0	0	0	0							
J	80.7	61.3	71.0	100	1952+	43	1938	12	3.60	9.00	1938	0.06	1949	4.79	1938	0.0	0.0	0.0	0.0	0.0	8.4	S	36	SE	1955	65	5.9	7	12	11	10	0	6	5	0	0	0	0							
J	85.2	66.7	76.0	106	1936	53	1963+	0	4.18	10.19	1941	0.37	1944	4.85	1964	0.0	0.0	0.0	0.0	0.0	7.8	S	46	SW	1945+	67	5.8	8	12	11	10	0	8	7	0	0	0	0							
A	82.8	65.0	73.9	100	1955	48	1940	0	4.77	14.10	1955	0.47	1964	4.76	1955	0.0	0.0	0.0	0.0	0.0	7.6	S	41	N	1947	64	5.8	8	12	11	10	0	6	4	0	0	0								
S	76.2	57.9	67.1	100	1953	36	1947	57	3.50	10.49	1934	0.19	1941	4.01	1960	0.0	0.0	0.0	0.0	0.0	7.9	S	56	NW	1960	62	5.6	10	9	11	8	0	6	1	0	0	0								
O	65.9	47.7	56.8	94	1941	27	1940+	264	2.84	6.77	1955	0.05	1963	3.46	1966	0.1	1.6	1962	1.6	1962	8.3	N	60	NW	1951	62	5.0	12	9	10	8	*	*	0	0	1	0								
N	53.6	38.0	45.8	83	1950	14	1938	576	3.16	6.97	1951	0.75	1936	2.37	1963	1.0	13.0	1938	7.7	1938	9.2	NW	64	E	1950	54	6.0	9	9	12	9	*	*	0	0	7	0								
D	42.2	28.2	35.2	72	1966	- 2	1942+	924	2.87	6.08	1948	0.19	1955	2.67	1948	4.9	21.5	1960	16.6	1960	9.3	NW	48	NW	1962	50	6.1	8	9	14	10	1	*	*	0	6	21	*							
YR	62.5	45.3	53.9	106	JUL. 1936	-14	FEB. 1934	4980	41.28	14.10	1955	0.05	AUG. 1963	4.85	JUL. 1964	23.3	23.1	1934	16.6	1960	9.0	S	64	E	NOV. 1950	60	5.9	101	116	148	121	7	33	18	20	90	*								

Means and extremes in the above table are from the existing or comparable location(s). Annual extremes have been exceeded at other locations as follows:  
 Maximum monthly precipitation 15.22 in July 1880; maximum precipitation in 24 hours 5.42 in October 1903; maximum monthly snowfall 34.0 in February 1899;  
 fastest mile wind 73 in July 1914.

## REFERENCE NOTES APPLYING TO ALL "NORMALS, MEANS, AND EXTREMES" TABLES.

- (a) Length of record, years.
  - (b) Climatological standard normals (1931-1960).
  - \* Less than one half.
  - + Also on earlier dates, months or years.
  - T Trace, an amount too small to measure.
- Below-zero temperatures are preceded by a minus sign.  
 The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

# To 8 compass points only.

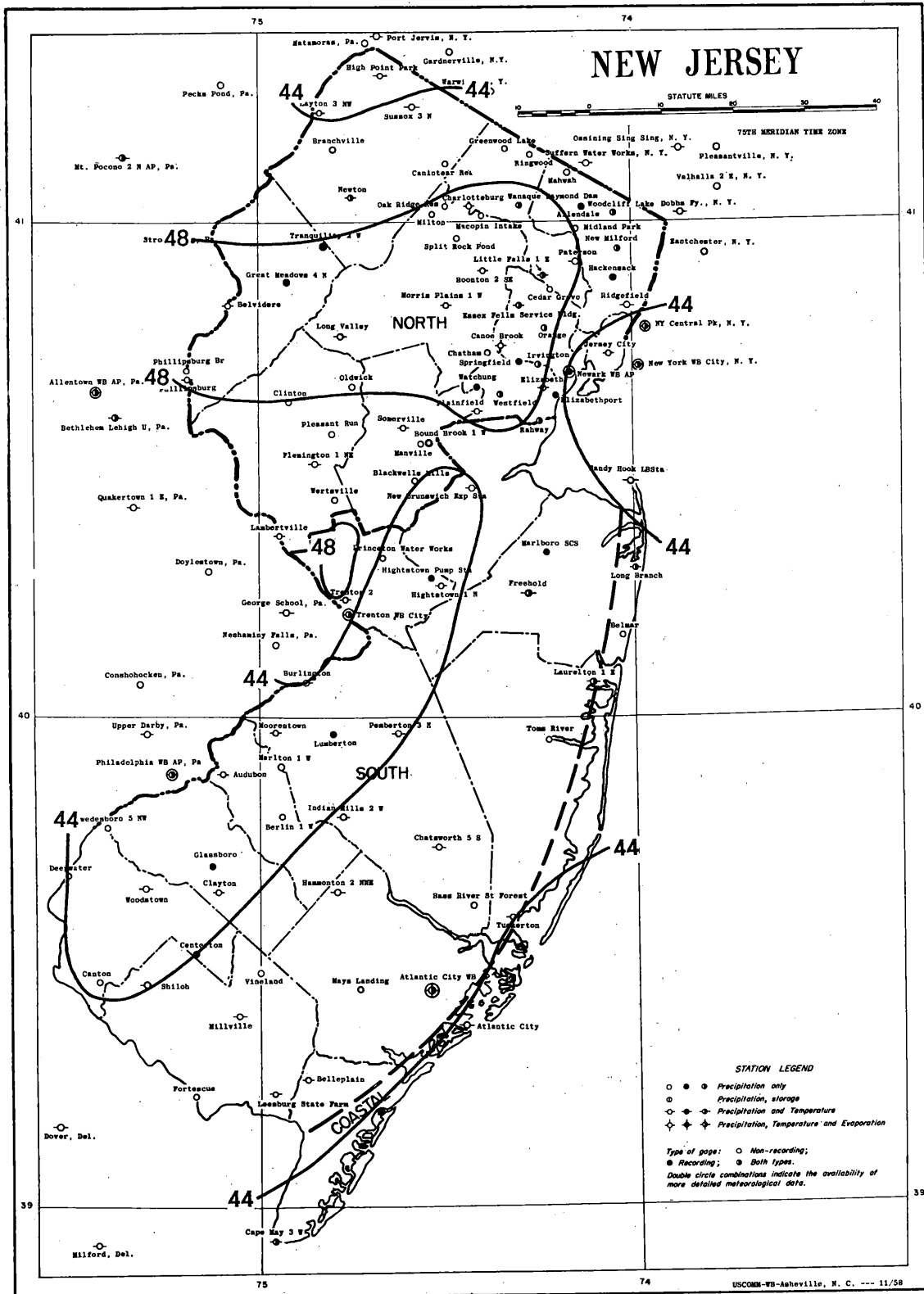
Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

† Temperature extremes and relative humidity means in the Normals, Means, and Extremes table are for comparable locations through 1964. Summaries for the present location of temperature sensors will be published when more data are accumulated.

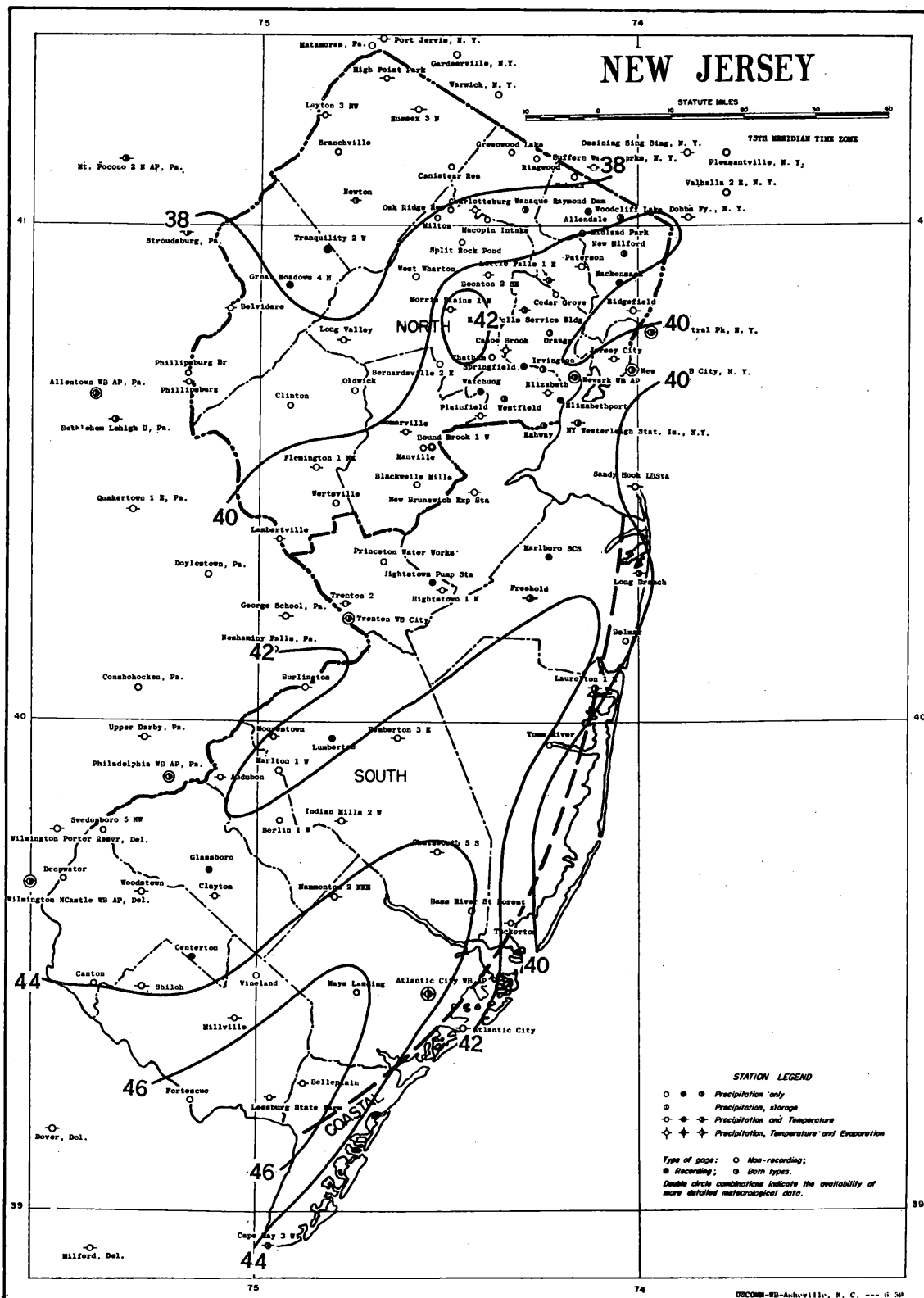
# Mean Annual Precipitation, Inches



Based on period 1931-55

Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps.

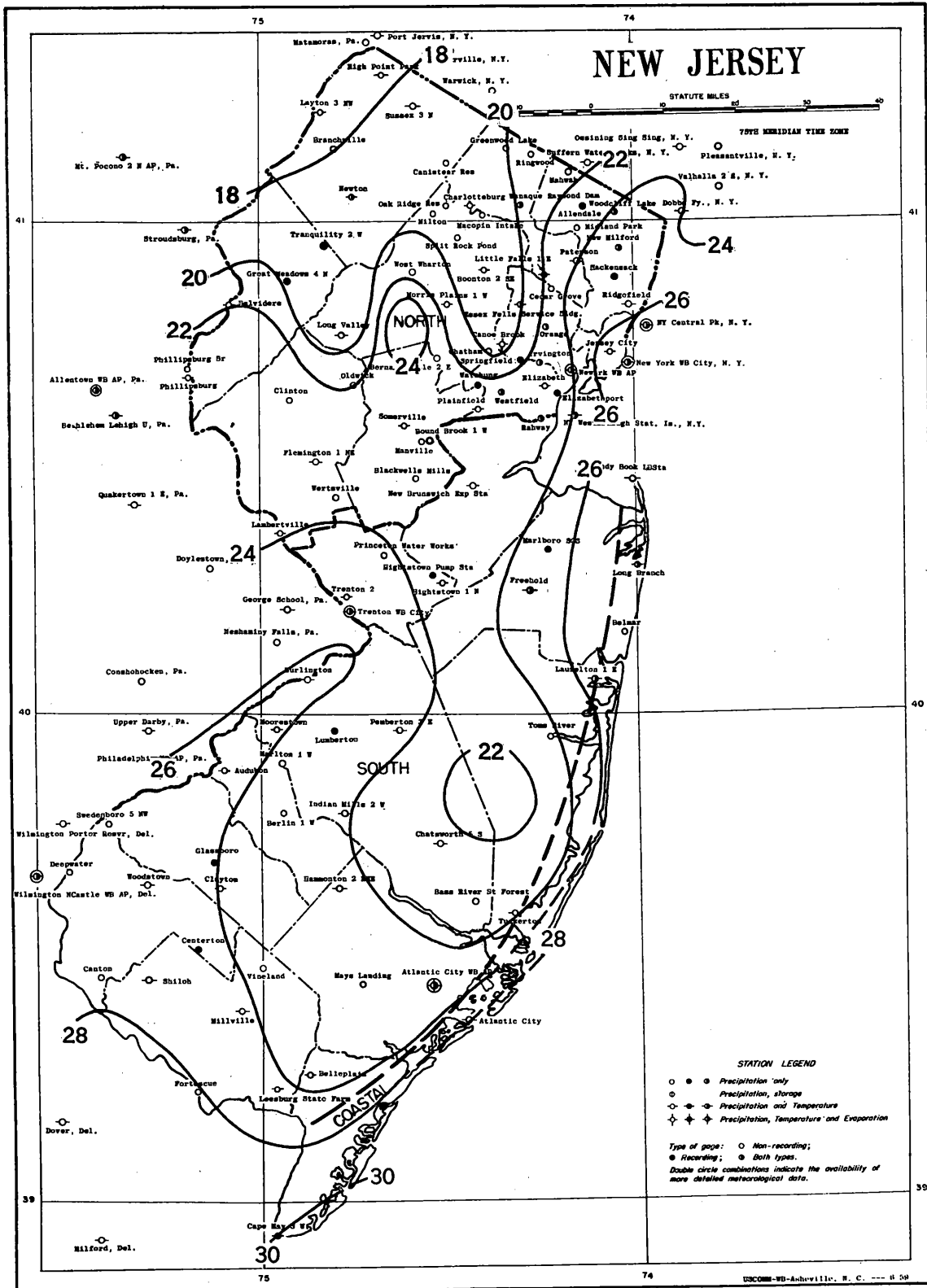
# Mean Maximum Temperature (°F.), January



Based on period 1931-52

Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps,

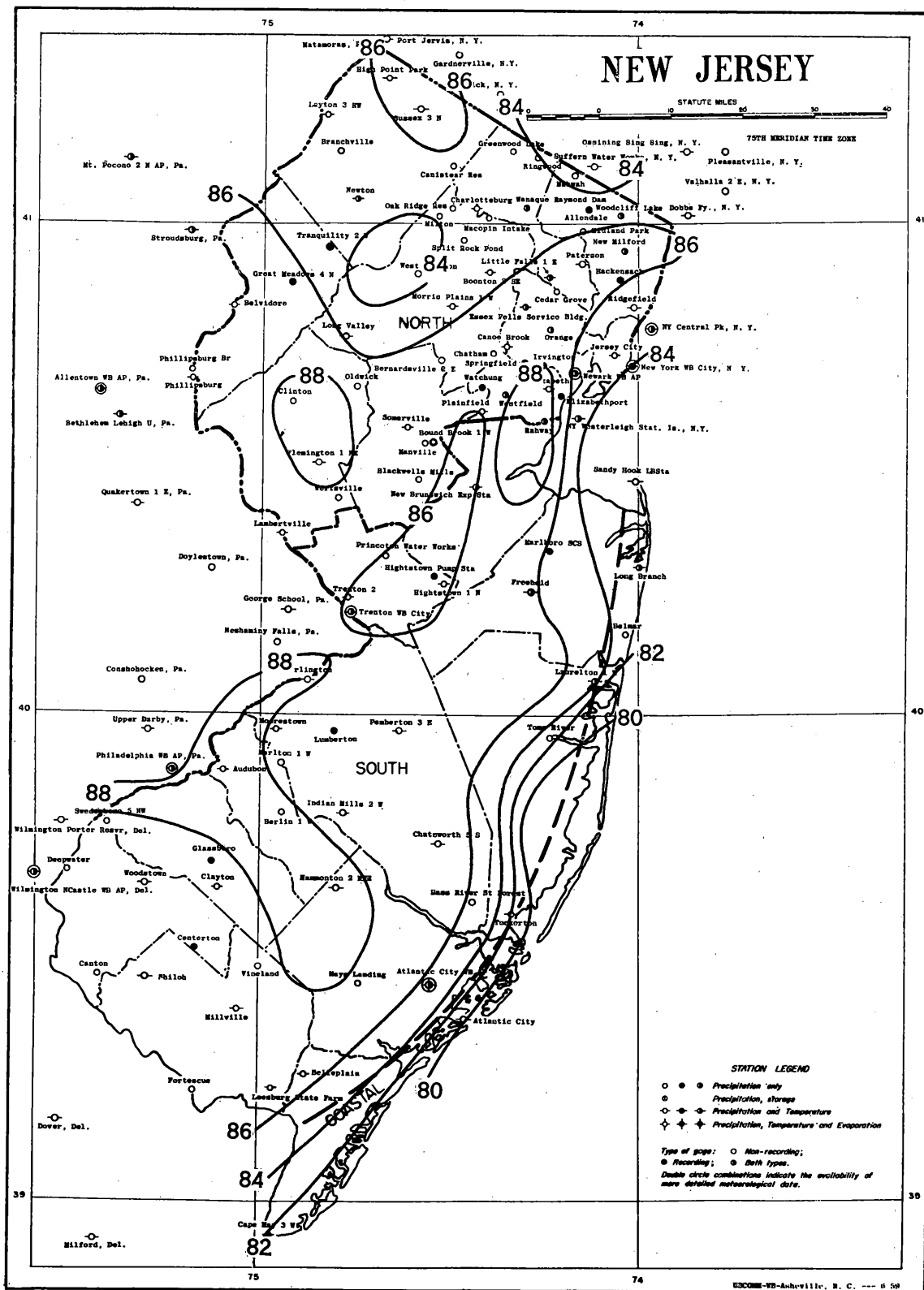
# Mean Minimum Temperature (°F.), January



Based on period 1931-52

Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps,

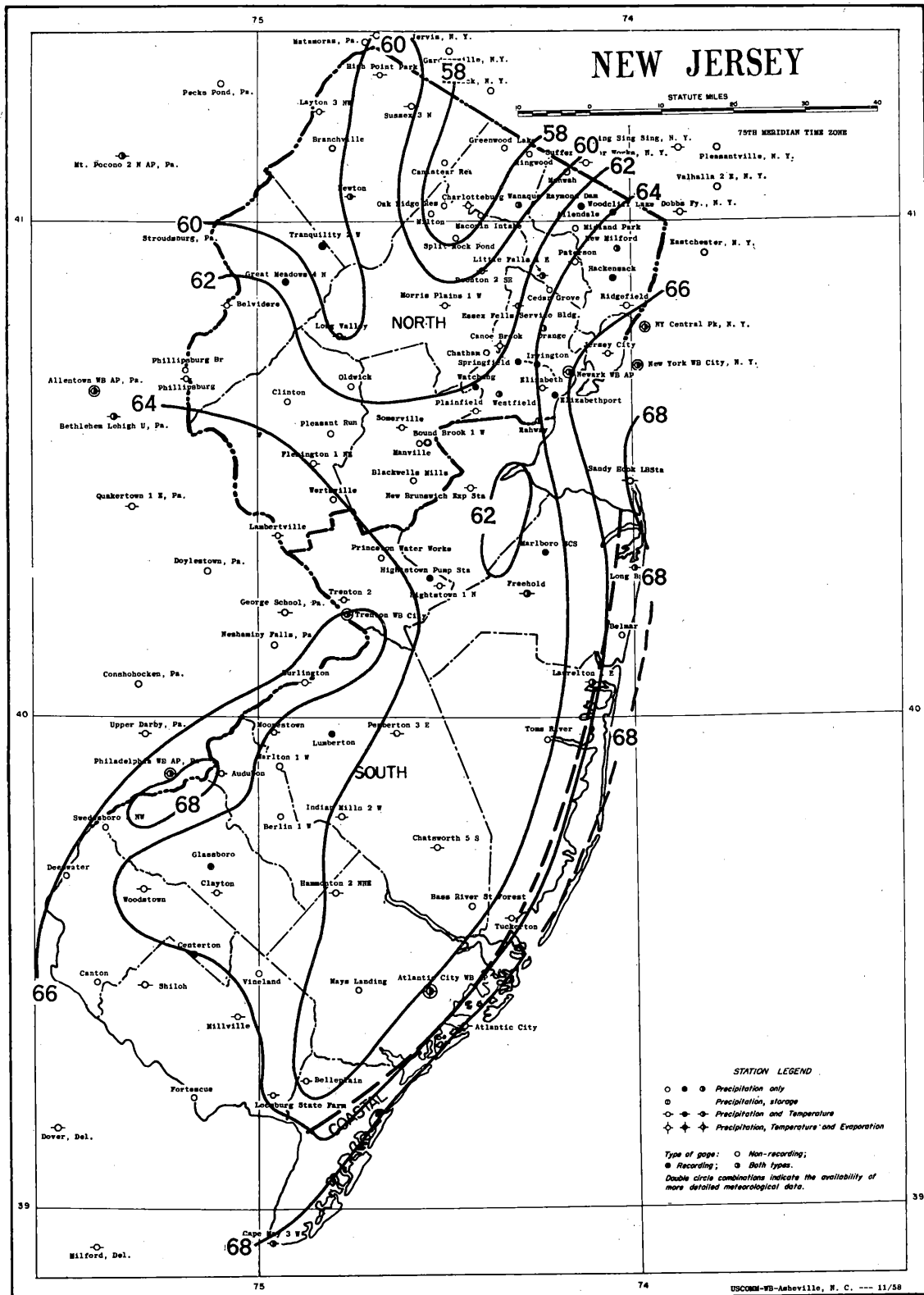
# Mean Maximum Temperature (°F.), July



Based on period 1931-52

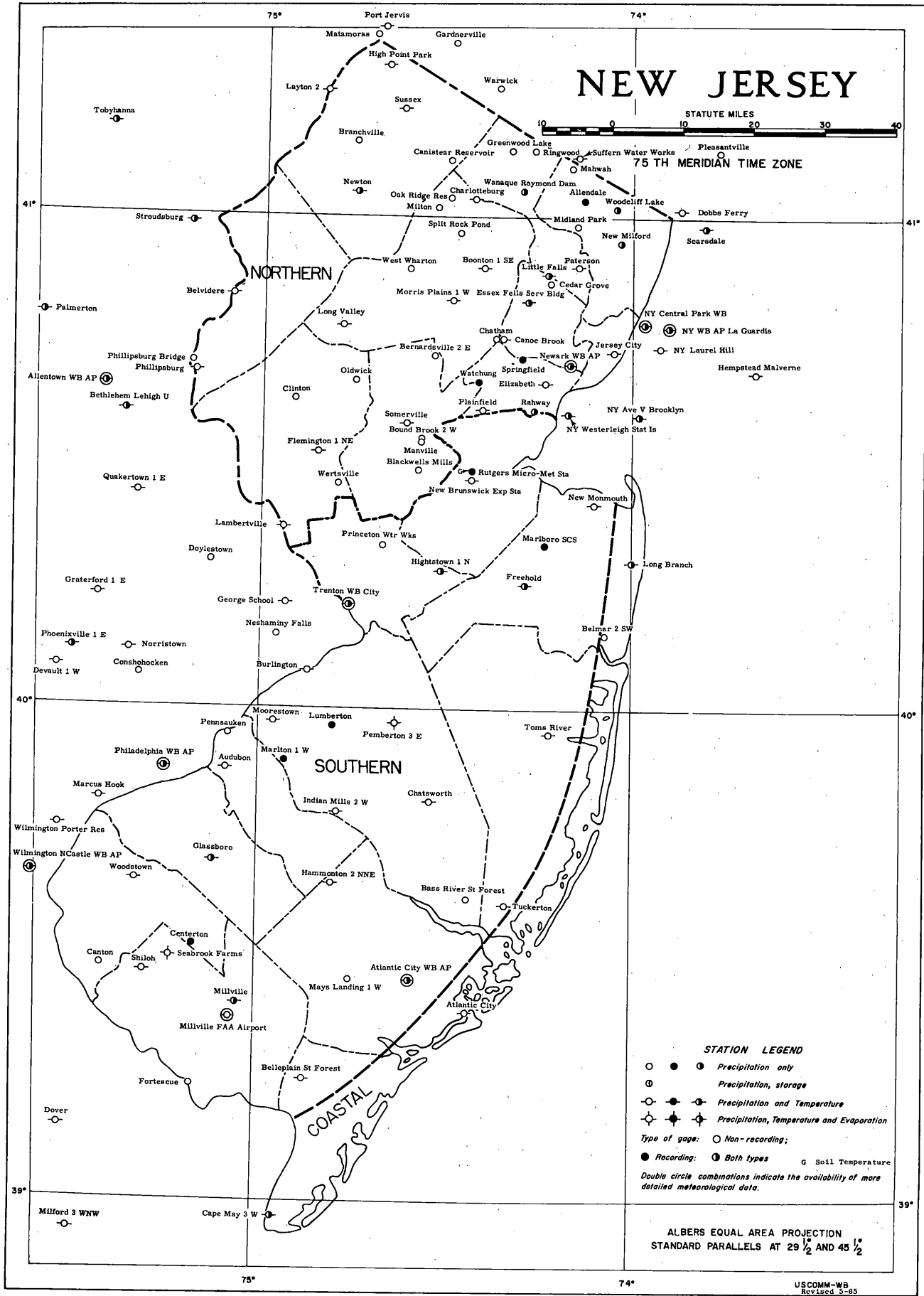
Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps.

# Mean Minimum Temperature (°F.), July



Based on period 1931-52

Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps.



# NEW JERSEY

STATUTE MILES

75 TH MERIDIAN TIME ZONE

NORTHERN

SOUTHERN

COASTAL

### STATION LEGEND

- ● ● Precipitation only
  - ⊙ Precipitation, storage
  - ● ● Precipitation and Temperature
  - ⊙ ● ● Precipitation, Temperature and Evaporation
  - Type of gage: ○ Non-recording; ● Recording; ⊙ Both types
  - G Soil Temperature
- Double circle combinations indicate the availability of more detailed meteorological data.

ALBERS EQUAL AREA PROJECTION  
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

USCOMM-WB  
Revised 3-85

## GENERAL REFERENCE NOTES

Figures and letters following a station name, such as 12 SSW, indicate distance in miles and direction from the Post Office.

The following units are generally used: Temperature in °F., precipitation and snowfall in inches, wind movement in miles per hour, and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperature from 65° F. Below zero temperatures are preceded by a minus sign (-).

Information on the history of changes in locations, elevations, exposure, etc., of substations through 1955 may be found in the publication "Substation History" for this state; price per copy 50 cents. Similar information for regular Weather Bureau stations is found in the latest issue of "Local Climatological Data Annual" published for each of these stations; price 15 cents per copy.

Additional detailed climatological data for regular Weather Bureau stations are found in the issues of the monthly "Local Climatological Data" published for each station. Price of each issue of the monthly "Local Climatological Data" is 10 cents. Additional detailed climatological data for substations and regular Weather Bureau stations, including present locations, elevations, etc., are found in the monthly and annual issues of "Climatological Data" for this state. Separate copies are priced at 20 cents each.

Long-period detailed data for substations may also be found in the publication "Climatological Summary of the United States, 1930 Edition (Bulletin W)", the "Climatological Summary of the United States (Bulletin W Supplement 1931-1952)" and the "Climatological Summary of the United States (Bulletin W Supplement 1951-1960)". The 1930 Edition (Bulletin W) is priced at 10 cents per copy; the Bulletin W Supplements at 20 and 25 cents respectively.

The "National Weekly Weather and Crop Bulletin" is prepared jointly by the Agricultural Marketing Service of the U. S. Department of Agriculture and the Weather Bureau. In it are given the weather of the past week in narrative, tabular and chart form, together with the weather's effect on crops and farm activities. It also contains special articles on weather and crops. Single issues are priced at 10 cents.

Any of the above publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Weekly Weather and Crop bulletins are published in most states. They are the cooperative effort of the Weather Bureau, the Agricultural Marketing Service of the U. S. Department of Agriculture, and other state and federal agencies. These may be obtained from the Weather Bureau State Climatologist at the address given below.

You may obtain further information on the climate of New Jersey by writing to a Weather Bureau Office near you or to the Weather Bureau State Climatologist, Department of Meteorology, College of Agriculture and Environmental Science, Rutgers - The State University, New Brunswick, New Jersey 08903.

