



COOPERATIVE OBSERVERS CLIMATOLOGICAL OBSERVATIONS

SAMPLE FORMS OF RECORDS AVAILABLE

AT
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL
DATA SERVICE

NATIONAL CLIMATIC CENTER
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River and Climatological Observation Form E-15 (a combination of the former F-10 and E-15 Forms) is used for recording daily river stages and/or daily precipitation and temperature data by approximately 12,000 cooperative observers in the United States. All measurements are entered on the date they are made. The completed forms are mailed to the National Climatic Center each month where the data are digitized onto magnetic tape and processed. The temperature and precipitation data are published in Climatological Data for the appropriate state or combination of states.

Maximum and minimum temperatures and the precipitation values (rain, snowfall, etc.) are for the full 24 hours ending at observation time. The maximum and minimum temperatures are read and entered in the proper columns. Below zero readings are preceded by a minus (-) sign. Temperature "at observation" is the actual air temperature at the time the observation is made.

Hours of precipitation are shown by a straight line () through the hours of occurrence. If the time of precipitation is uncertain a wavy line () is drawn through the hours when precipitation probably occurred. Precipitation times are shown for the calendar days on which precipitation actually occurred. In the columns labeled "24-hr. amounts," entries are "0" for no precipitation and "T" for a trace. A "T" means precipitation did occur but the total amount was too small to measure. Rain, Melted Snow, etc. are measured to the nearest hundredth inch, e.g., ".11." Snow, Ice Pellets, Hail are measured to the nearest tenth of an inch, e.g., "1.1." At Ob., Snow, Ice Pellets, Hail, Ice on Ground entries are measured and reported to the nearest whole inch, e.g., "2;" not "2.0" or "2.00." A "T" in this column means less than a half inch.

Under Weather (calendar day), the columns marked "fog, ice pellets, glaze, thunder, hail, and damaging winds" are designed for easy recording of these elements by entering an "x" on the date on which any of these events are observed.

The column "Time of Obsn. if different from the above" is used when an observation is not made within one hour of the regular time listed at the top of the form. If the time entry in this column applies only to precipitation, it is encircled.

The space "Remarks" is used for other weather conditions, or to add information such as time of a storm, severity of damage, etc. These remarks are often the only source of information about unusual weather and they can be very important.

Continuous surveillance of weather conditions is not expected at cooperative stations. For this reason, the absence of entries in the "Weather (calendar day)" column or the "Remarks" space does not mean such conditions or events did not occur.

RECORDS SERVICES AVAILABLE AT THE NATIONAL CLIMATIC CENTER

Full size paper copies or film images (35 mm roll film or microfiche) of these Forms can be provided for the cost of duplication. The numerical data, except river stage, are published in CLIMATOLOGICAL DATA which is issued monthly with an annual summary, for each state or combination of states. Most of the observations subsequent to July 1948 have been digitized onto magnetic tape. Detailed information about the availability, contents and cost of these tapes or other data products and services will be provided upon request.

Climatological Data



NEW JERSEY

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE:	ATLANTIC CITY	52	DATE 10
LOWEST TEMPERATURE:	2 STATIONS	-15	DATE 19+
GREATEST TOTAL PRECIPITATION:	LONG BRANCH OAKHURST	3.49	
LEAST TOTAL PRECIPITATION:	NEWTON ST PAULS ABBEY	1.12	
GREATEST 1 DAY PRECIPITATION:	ATLANTIC CITY WSO AP	2.34	DATE 10
GREATEST TOTAL SNOWFALL:	AUDUBON	19.0	
GREATEST DEPTH OF SNOW OR ICE:	FLEMINGTON 3 E	22	DATE 25

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION						PERCENT OF POSSIBLE SUNSHINE AVERAGE	SKY COVER SUNRISE TO SUNSET	
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST WIND	DIRECTION OF FASTEST WIND	DATE OF FASTEST WIND	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER			TOTAL
							EASTERN												
						01	07	13	19										
ATLANTIC CITY WSO AP	28	9.1	12.0	44++	29	28	71	75	57	67	2	6	3	0	0	1	12	56	5.1
ATLANTIC CITY	-	-	-	43	NW	28	-	-	-	-	0	4	4	0	1	0	9	-	-
NEWARK WSO AP	28	7.7	11.2	35++	28	28+	72	73	60	66	3	6	2	1	0	0	12	-	5.7
TRENTON WSO CI	-	-	-	43	NW	28	-	-	-	-	7	3	3	1	1	0	15	60	5.0

The monthly publication "Climatological Data" contains daily measurements and monthly summaries of temperature extremes and precipitation at cooperative stations. Station network maps and indices are published routinely in both the monthly and annual issues. Supplemental data on evaporation, wind, relative humidity, sunshine, or soil temperature are included for stations which report these data. Monthly totals of heating degree days and snowfall are published as seasonal tables in the July issue. The annual publication "Climatological Data" contains monthly and annual temperature averages, monthly and annual total precipitation, temperature extremes and freeze data. Data for monthly and annual soil temperature averages and monthly and annual evaporation and wind movement are included for those stations which report these data. The stations for which data are presented in the annual issue of this publication are the same as for the monthly issue.

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Daniel B. Mitchell DIRECTOR
NATIONAL CLIMATIC CENTER