

# COOPERATIVE OBSERVERS CLIMATOLOGICAL OBSERVATIONS

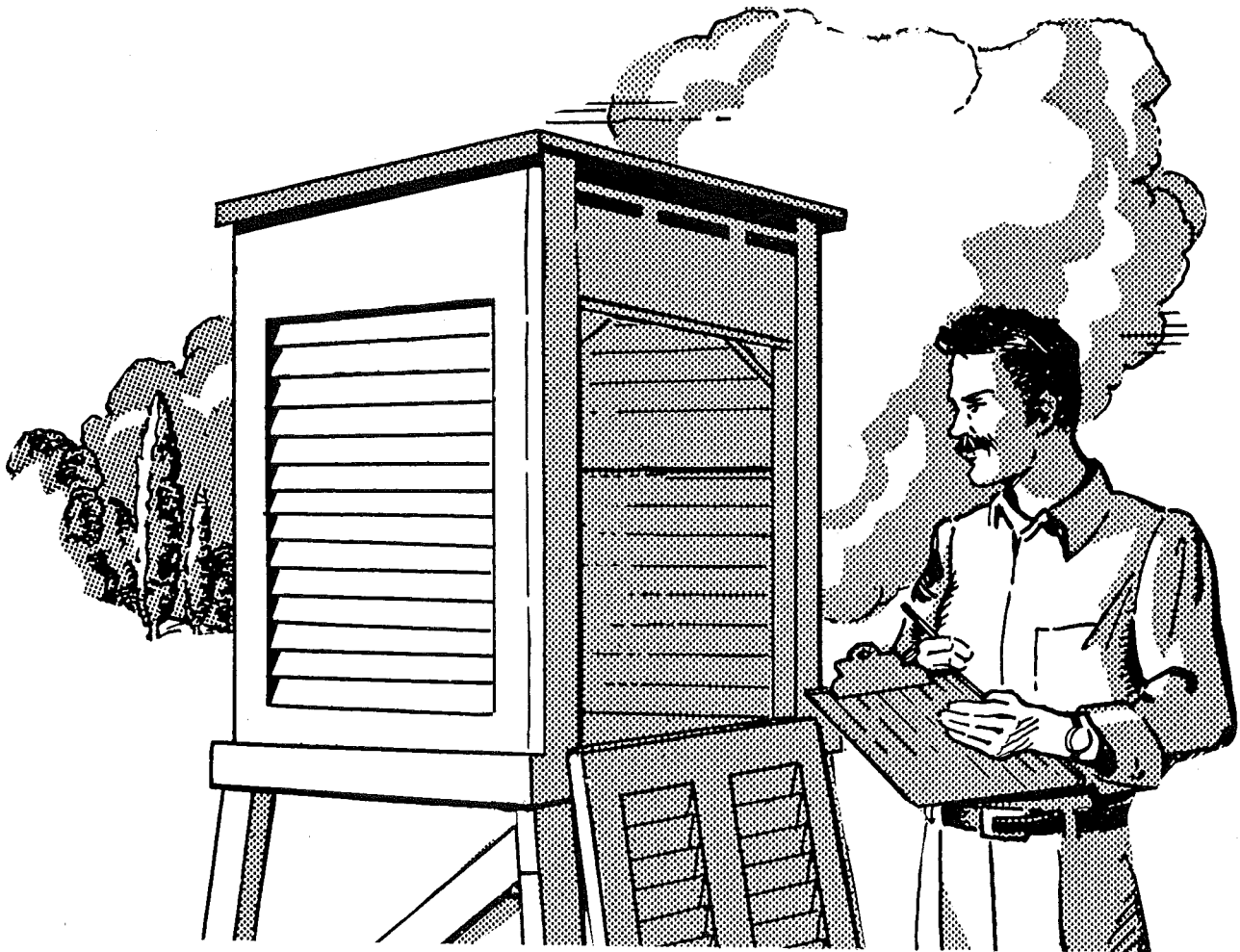


SAMPLE

WS

FORM

E-15



STATION (Climatological) **HOMEPPLACE** (River Station, if different) MONTH **DEC** 19 **88**  
 STATE **PA** COUNTY **NORTH** RIVER **SOUTH**  
 TIME (local) OF OBSERVATION RIVER TEMP. **6 PM** PRECIPITATION **6 PM** STANDARD TIME IN USE **E**  
 TYPE OF RIVER GAGE **7 AM** ELEVATION OF RIVER FLOOD STAGE **8** Ft. NORMAL POOL STAGE **---** Ft.  
 WIRE - WEIGHT **845.68** Ft.

DATE	TEMPERATURE F.		24-HR AMOUNTS		PRECIPITATION		WEATHER (Calendar Day)		RIVER STAGE		REMARKS (Special observations, etc.,)						
	MAX.	MIN.	At Obs. (in. and hundredths)	At Obs. (in. and hundredths)	A.M.	P.M.	Fog	Ice Pellets	Glaze	Thunder		Hail	Destructive Winds	Time of observation if different from above	CONDITION	GAGE READING AT	TENDENCY
1	93	61	81	.01											3.12	F	
2	101	51	86	.01											3.10	F	
3	97	67	82	2.03	0.5										9.47	R	FEB 3-11AM-1.52" PRECIP SINCE 7AM, HEAVY THUNDERSTORM 9-11AM, UP TO 1" DIAMETER HAIL.
4	100	71	87	0											10.05	F	
5	88	63	73	.08											8.17	F	
6	84	59	75	0											5.87	F	
7	81	49	72	.06	T										4.81	F	FEB 4 - CREST 10.31 5AM.
8	79	53	71	.27											4.76	F	FEB 5 - STRONG WINDS AND SEVERE THUNDERSTORMS AT 6:30AM.
9	74	47	64	0											3.74	F	FEB 6 - HAIL UP TO 1" DIAMETER AT 7 PM.
10	69	38	60	0											3.66	F	
11	63	34	55	0											3.50	F	
12	58	46	54	T											3.42	F	
13	63	50	57	.07											3.42	U	
14	59	45	53	.22											3.50	R	
15	54	43	45	.15											3.85	R	
16	49	26	32	0											3.91	R	
17	34	15	19	T											3.83	F	
18	23	0	5	T											3.76	F	
19	8	-9	-5	0											3.74	F	
20	-4	-18	-8	0											3.72	F	ICE IN RIVER 3 TO 5 INCHES THICK FROM 19TH TO 24TH.
21	0	-10	0	0											3.68	F	
22	19	0	11	0											4.05	F	
23	28	8	25	.66	7.5	7									4.75	R	
24	32	22	30	.45	4.8	10									4.92	R	
25	44	27	41	0	8	8									5.86	R	
26	47	26	43	.03	0.3	6									5.25	R	
27	53	34	46	0	3	3									7.32	F	
28	58	38	49	0	0	7									4.17	R	
29	52	33	35	.02											4.17	F	
30	49	28	43	.12											4.17	S	
31	57	42	51	0											4.03	F	

CONDITION OF RIVER AT GAGE: SUM **4.18** GREATEST **13.1**  
 CHECK BAR (For wire-rec/gage) NORMAL CK. BAR  
 DATE: **22.10** **SEP 30, 1988**  
**22.10** **OCT 15, 1988**  
**22.19** **OCT 31, 1988**  
 OBSERVER: **John Doe**  
 SUPERVISING OFFICE: **(HSA, WSO, WFO)**  
 STATION INDEX NO.: **41-5808**

A. Obscured by rough ice.  
 B. Frozen, but open at gage.  
 C. Upper surface of smooth ice.  
 D. Ice above gage.  
 E. Ice gage below gage.  
 F. Shore ice.  
 G. Floating ice.  
 H. Pool stage.

## ENTRIES ON WS FORM E-15

River and Climatological Observation Form E-15 is used for recording daily river stages and/or daily precipitation and temperature data by approximately 8,000 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 Data Center each month where the data are digitized 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 (to the nearest whole degree) 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 AVAILABLE AT THE NATIONAL CLIMATIC DATA CENTER

Full size paper copies or film images (35 mm roll film or microfiche) of these Forms can be provided. 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. The data are also available in digital form - on magnetic tape or diskette. Detailed information about the availability, contents and cost of these data products and services will be provided upon request. Call or write the: National Climatic Data Center, Federal Building, Asheville, NC 28801-2696; phone (704) 259-0682 or (704) CLIMATE.



# CLIMATOLOGICAL DATA ANNUAL SUMMARY PENNSYLVANIA 1987

ISSN 0364-5843

VOLUME 92 NUMBER 13



THIS IS AN OCEANIC AND ATMOSPHERIC DATA CENTER.

DIRECTOR

CLIMATOLOGICAL DATA is a unique source of weather information derived from data collected by over 8,000 cooperative weather observers located throughout the United States, Puerto Rico, the Virgin Islands, and U. S. Pacific Islands. It is published monthly, with an Annual Summary, for each State or combination of States/Areas by the National Climatic Data Center, Asheville, North Carolina.

\* **MONTHLY** editions contain:

- Temperature and precipitation extremes and summarized data.
- Daily precipitation, maximum and minimum temperatures, snowfall, soil temperatures, and evaporation & wind.
- Graphical displays of various climatological features.
- Station indices and locator maps.
- Monthly totals of heating degree days and snowfall are published as seasonal tables in the July issue.

\* **ANNUAL SUMMARY** contains monthly and annual:

- Total precipitation and departures from normal.
- Average temperatures and departures from normal.
- Temperature extremes and freeze data.
- Soil temperatures.
- Total evaporation and wind movement.
- Monthly and seasonal cooling degree days.
- Graphical displays of various climatological features.
- Station indices and locator maps.

SHELF STOCK of the printed publication is maintained only for the most recent three years. Earlier years are available on microfiche or as paper copies reproduced from microfiche. The data are also available in digital form - on magnetic tape or diskette.

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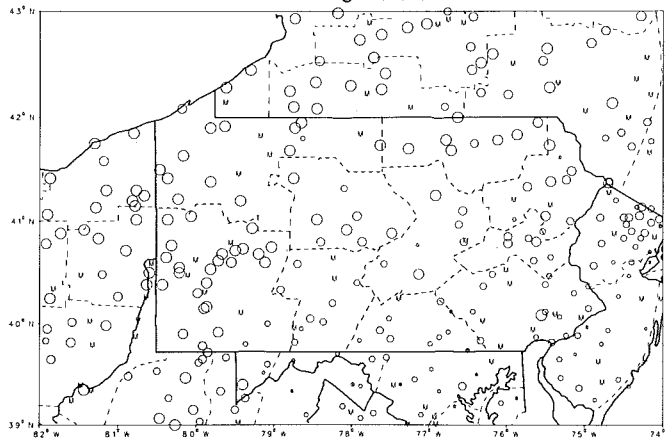


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### MONTHLY PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980)

M INCOMPLETE DATA FOR THE MONTH  
+ EXACTLY NORMAL  
○ 5,10,20...50% OR MORE BELOW NORMAL  
●●●● 10,20,40...100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER.

*Samuel D. Watson*

DIRECTOR, NATIONAL CLIMATIC DATA CENTER

**noaa**

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

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