

# "RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS"

## ENTRIES ON WS FORM B-91 (7-89) AND PRECEDING FORMS

STATION (Continuation)		(River Station, if different)		MONTH	19	WS FORM B-91 (7-89)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE								
STATE		COUNTY		RIVER		RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS									
TIME (Hour of Observation River)		TEMP	PRECIPITATION	STANDARD TIME IN USE											
TYPE OF RIVER GAGE		ELEVATION OF RIVER GAGE ZERO	FLOOD STAGE	NORMAL POOL STAGE											
DATE	TEMPERATURE F.		PRECIPITATION				WEATHER (Calendar Day)				RIVER STAGE		REMARKS (Special observations, etc.)		
	24 HR. ENDING AT OBSRN		24-HR AMOUNTS		At Obs.		Mark "X" for all types occurring each day				GAGE READINGS AT	TENDENCY			
	MAX	MIN	AT OBSRN	Rain, melted snow, etc. (inches and hundredths)	Snow, ice pellets, hail, ice on ground (inches)	Trace a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved	Fog	Ice Pellets	Qualls	Thunder				Hail	Damaging Winds
						A M	MOON	P M							
1	80	65	71	1.03											HEAVY THUNDERSTORM 5:15-6:00 PM
2	68	42	50	0	0										BAIN SHOWERS E OF STA IN AFTNOON
3	44	28	32	T	T										SNOW FLURRIES/MORNING FOG
4	30	18	26	.53	2.1	2									HEAVY SNOW NOON-3:10 PM
5	15	-3	8	.15	1.5	3									

The majority of cooperative observers use a standard (B-91) or previously numbered form (E-15, etc) to manually record daily maximum and minimum temperatures and/or precipitation. Some cooperative stations also record daily river stages, evaporation, soil temperatures, and wind speed and direction. While the Form B-91 is designed to be self explanatory, the following comments are presented to assist in clarification.

**GENERAL:** Maximum and Minimum temperature and precipitation values are for the full twenty-four (24) hours **ENDING** at the observation times usually listed in the WS Form B-91 heading. Continuous surveillance of weather conditions is not expected or required at cooperative stations and the absence of entries on the WS Form B-91 is not an unusual occurrence. "M" indicates missing data.

**TEMPERATURE:** Recorded in whole degrees Fahrenheit. Below zero readings are preceded by a minus (-) sign. Temperature "AT OBSN." is the actual air temperature at the observation time.

**PRECIPITATION:** "Rain, melted snow, etc." are reported in inches and hundredths (xx.xx); "snow, ice pellets" are reported in inches and tenths (xx.x); "snow, ice pellets, hail, ice on ground" are reported in whole inches (xx.). A "T" (Trace) entered for rain and snow indicates precipitation did occur but the amount was too small to measure; when "T" is in the on ground column, the amount is less than one-half inch (< 1/2"). A zero (0) is usually entered when no precipitation occurs, however, blanks may also indicate no precipitation.

**REMARKS:** Used to report weather conditions other than those listed, add information on an observed weather element, document times of storms and the severity of damage inflicted, etc. These remarks are often the only source of information about unusual weather and can provide insight not available elsewhere.

If further clarification is required, contact the:

NATIONAL CLIMATIC DATA CENTER  
151 PATTON AVE ROOM 120  
ASHEVILLE, NC 28801-5001

PHONE: (828) 271-4800  
FAX: (828) 271-4876  
E-MAIL: orders@ncdc.noaa.gov

For a more complete interpretation of the data, the services of a private consulting meteorologist may be required. Addresses in your area for these consultants can be obtained from:

THE AMERICAN METEOROLOGICAL SOCIETY  
45 BEACON STREET  
BOSTON, MA 02108