

# AFM FORMAT DOCUMENT MARCH 27, 2020

## AFM Product Format

1. Format: the AFM is a segmented product automatically generated for individually defined areas in the format shown below

123456789012345678901234567890123456789012345678901234567890123456789

Product Format	Description of Entry
FOaaii cccc ddhmm	<b>(WMO Heading)</b>
AFMxxx	<b>(AWIPS ID)</b>
AREA FORECAST MATRICES	<b>(MND - NWS Product Name)</b>
NATIONAL WEATHER SERVICE city state	<b>(Issuing Office)</b>
time AM/PM time_zone day mon dd yyyy	<b>(Issuance Time/Date)</b>
stZ###-###>###-ddhmm-	<b>(UGC Type: Zone)-(Exp. Time)</b>
county st-county st	<b>(Included County or Zone/State)</b>
INCLUDING THE CITIES OF...city...city	<b>(Included Cities within the Zone)</b>
time AM/PM time_zone day mon dd yyyy	<b>(Issuance Time/Date)</b>

DATE	WED 07/15/09	THU 07/16/09	FRI 07/17/09
CDT 3HRLY	04 07 10 13 16 19 22 01 04	07 10 13 16 19 22 01 04	07 10 13 16 19
UTC 3HRLY	09 12 15 18 21 00 03 06 09	12 15 18 21 00 03 06 09	12 15 18 21 00
MAX/MIN	87	65 67 69	86 64 82
TEMP	70 70 80 85 86 83 74 71 69 69 79	84 85 82 72 68 66 66 75 80 81 77	
DEWPT	67 68 69 70 71 71 70 69 67 66 65 66 67 67 66 65 65 64 63 62 61 60		
RH	90 93 69 61 61 67 87 93 93 90 62 55 55 61 81 90 97 93 66 54 51 56		
WIND DIR	SE S SW SW SW SW W W NW N NW NW NW W W W NW NW NW NW NW		
WIND SPD	5 6 9 10 9 8 5 4 4 5 5 4 4 4 5 5 5 4 8 10 10 8		
CLOUDS	B1 B2 B2 B2 B2 B2 B2 B2 B2 B1 B1 B1 B1 B1 B1 B1 SC SC SC SC SC FW		
POP 12HR	50	50	20 30 10
QPF 12HR	0.23	0.11	0.01 0.02 0
SNOW 12HR	00-00	00-00	00-00
RAIN SHWRS	C C C C C C C C C S S S S C C C C		
TSTMS	C C C C C C C C C S S S S C C C C		
HEAT INDEX	82 89 91 88	86 88 84	81 82
MAX HEAT	91 94 85	87 89	82 82

DATE	SAT 07/18/09	SUN 07/19/09	MON 07/20/09	TUE 07/21/09
CDT 6HRLY	01 07 13 19	01 07 13 19	01 07 13 19	01 07 13 19
UTC 6HRLY	06 12 18 00	06 12 18 00	06 12 18 00	06 12 18 00
MIN/MAX	58 78	55 80	58 83	62 83
TEMP	63 61 76 73	60 58 77 75	62 61 80 79	66 65 81 80
DEWPT	58 55 57 57	55 54 55 57	58 58 57 54	55 57 58 59
PWIND DIR	NW N N NW NE E SE			
WIND CHAR	LT LT LT LT LT LT LT			
AVG CLOUDS	FW FW SC SC SC SC SC SC FW FW FW FW FW FW SC SC			
POP 12HR	10 10	5 10	10 10	10 10

\$\$

2. Miscellaneous format clarification points:

- a. Labels. Alphanumeric parameter labels describing the contents of each row are listed down the left hand edge of the product. Labels are composed of one or more words, but will not extend beyond the 12th character space from the left.
- b. Parameters. All parameters are right justified beneath the valid hour, or the end of the valid period to which they pertain. MAX/MIN is the only exception. Although right justified, three precipitation categories may contain ranges comprising more than 2 or 3 characters. The categories and possible character spaces are as follows:
  - (1) QPF - maximum 9 characters (e.g., 1.00-1.50)
  - (2) MAX QPF - maximum 11 characters (e.g., .75 or 10.00-12.00)
  - (3) SNOW 12HR - maximum 5 characters (e.g., 12-18)
- c. Elements used. Several elements in the AFM do change, depending on the season. Details of the elements which may not appear year-round can be found in the [specifications document](#) for the AFM product.
- d. Missing Data. Missing data within an otherwise complete AFM will be indicated by the code, "MM."