**Weather Documentation**

**Table 4 (observation/value)**

Note: 9’s in a field (e.g.9999) indicate missing data or data that has not been received. The five core values are:

PRCP = Precipitation (mm or inches as per user preference, inches to hundredths on Daily Form pdf file) SNOW = Snowfall (mm or inches as per user preference, inches to tenths on Daily Form pdf file)  
SNWD = Snow depth (mm or inches as per user preference, inches on Daily Form pdf file)  
TMAX = Maximum temperature (Fahrenheit or Celsius as per user preference, Fahrenheit to tenths on Daily Form pdf file

TMIN = Minimum temperature (Fahrenheit or Celsius as per user preference, Fahrenheit to tenths on Daily Form pdf file

The other values are:

ACMC = Average cloudiness midnight to midnight from 30-second ceilometer data (percent)

ACMH = Average cloudiness midnight to midnight from manual observations (percent)

ACSC = Average cloudiness sunrise to sunset from 30-second ceilometer data (percent)

ACSH = Average cloudiness sunrise to sunset from manual observations (percent)

AWND = Average daily wind speed (meters per second or miles per hour as per user preference)

DAEV = Number of days included in the multiday evaporation total (MDEV)  
DAPR = Number of days included in the multiday precipitation total (MDPR)  
DASF = Number of days included in the multiday snowfall total (MDSF)

DATN = Number of days included in the multiday minimum temperature (MDTN)

DATX = Number of days included in the multiday maximum temperature (MDTX)

DAWM = Number of days included in the multiday wind movement (MDWM)

DWPR = Number of days with non-zero precipitation included in multiday precipitation total (MDPR) EVAP = Evaporation of water from evaporation pan (mm or inches as per user preference, or hundredths of inches on Daily Form pdf file)  
FMTM = Time of fastest mile or fastest 1-minute wind (hours and minutes, i.e., HHMM)  
FRGB = Base of frozen ground layer (cm or inches as per user preference)  
FRGT = Top of frozen ground layer (cm or inches as per user preference)  
FRTH = Thickness of frozen ground layer (cm or inches as per user preference)  
GAHT = Difference between river and gauge height (cm or inches as per user preference)  
MDEV = Multiday evaporation total (mm or inches as per user preference; use with DAEV)  
MDPR = Multiday precipitation total (mm or inches as per user preference; use with DAPR and DWPR, if available)  
MDSF = Multiday snowfall total (mm or inches as per user preference)  
MDTN = Multiday minimum temperature (Fahrenheit or Celsius as per user preference ; use with DATN) MDTX = Multiday maximum temperature (Fahrenheit or Celsius as per user preference ; use with DATX) MDWM = Multiday wind movement (miles or km as per user preference)  
MNPN = Daily minimum temperature of water in an evaporation pan (Fahrenheit or Celsius as per user preference)  
MXPN = Daily maximum temperature of water in an evaporation pan (Fahrenheit or Celsius as per user preference)

PGTM = Peak gust time (hours and minutes, i.e., HHMM)  
PSUN = Daily percent of possible sunshine (percent)  
SN\*# = Minimum soil temperature where \* corresponds to a code

for ground cover and # corresponds to a code for soil depth (Fahrenheit or Celsius as per user preference)

Ground cover codes include the following: 0 = unknown

* 1 = grass
* 2 = fallow
* 3 = bare ground
* 4 = brome grass
* 5 = sod
* 6 = straw mulch 7 = grass muck 8 = bare muck

Depth codes include the following:

* 1 = 5 cm
* 2 = 10 cm
* 3 = 20 cm
* 4 = 50 cm
* 5 = 100 cm
* 6 = 150 cm
* 7 = 180 cm

SX\*# = Maximum soil temperature where \* corresponds to a code for ground  
cover and # corresponds to a code for soil depth. See SN\*# for depth codes. (Fahrenheit or

Celsius as per user preference)

THIC = Thickness of ice on water (inches or mm as per user preference)

TOBS = Temperature at the time of observation (Fahrenheit or Celsius as per user preference) TSUN = Daily total sunshine (minutes)  
WDF1 = Direction of fastest 1-minute wind (degrees)  
WDF2 = Direction of fastest 2-minute wind (degrees)

WDF5 = Direction of fastest 5-second wind (degrees) WDFG = Direction of peak wind gust (degrees)  
WDFI = Direction of highest instantaneous wind (degrees) WDFM = Fastest mile wind direction (degrees)

WDMV = 24-hour wind movement (km or miles as per user preference, miles on Daily Form pdf file) WESD = Water equivalent of snow on the ground (inches or mm as per user preference)  
WESF = Water equivalent of snowfall (inches or mm as per user preference)  
WSF1 = Fastest 1-minute wind speed (miles per hour or meters per second as per user preference) WSF2 = Fastest 2-minute wind speed (miles per hour or meters per second as per user preference) WSF5 = Fastest 5-second wind speed (miles per hour or meters per second as per user preference) WSFG = Peak guest wind speed (miles per hour or meters per second as per user preference)

WSFI = Highest instantaneous wind speed (miles per hour or meters per second as per user preference) WSFM = Fastest mile wind speed (miles per hour or meters per second as per user preference)  
WT\*\* = Weather Type where \*\* has one of the following values:

01 = Fog, ice fog, or freezing fog (may include heavy fog) 02 = Heavy fog or heaving freezing fog (not always

distinguished from fog) 03 = Thunder

04 = Ice pellets, sleet, snow pellets, or small hail  
05 = Hail (may include small hail)  
06 = Glaze or rime  
07 = Dust, volcanic ash, blowing dust, blowing sand, or blowing obstruction 08 = Smoke or haze

09 = Blowing or drifting snow  
10 = Tornado, waterspout, or funnel cloud  
11 = High or damaging winds  
12 = Blowing spray  
13 = Mist  
14 = Drizzle  
15 = Freezing drizzle  
16 = Rain (may include freezing rain, drizzle, and freezing drizzle) 17 = Freezing rain  
18 = Snow, snow pellets, snow grains, or ice crystals  
19 = Unknown source of precipitation  
21 = Ground fog  
22 = Ice fog or freezing fog

WVxx = Weather in the Vicinity where “xx” has one of the following values 01 = Fog, ice fog, or freezing fog (may include heavy fog)  
03 = Thunder  
07 = Ash, dust, sand, or other blowing obstruction

18 = Snow or ice crystals 20 = Rain or snow shower

Source: **GHCN (Global Historical Climatology Network) – Daily Documentation**

Additional details are available online at http://www1.ncdc.noaa.gov/pub/data/ghcn/daily/readme.txt (note the readme file does not apply to the Daily Form pdf file or CSV outputs, however values are the same, other than a few differences in units noted in table 4 above).