

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Local Climatological Data Hourly Observations January 2021

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 1957 ft. Lat: 45.7115° N Lon: -99.1296° W

Generated on 02/08/2021

Station: **ABERDEEN 35 WNW, SD US WBAN: 99999954933 (Unknown)**

[illegible]

01	0400	I					17	-8.3						5							CRN05	0.00	
01	0405	I					18	-7.8													CRN05		
01	0410	I					17	-8.3													CRN05		
01	0415	I					17	-8.3													CRN05		
01	0420	I					18	-7.8													CRN05		
01	0425	I					19	-7.2													CRN05		
01	0430	I					19	-7.2													CRN05		
01	0435	I					18	-7.8													CRN05		
01	0440	I					17	-8.3													CRN05		
01	0445	I					17	-8.3													CRN05		
01	0450	I					17	-8.3													CRN05		
01	0455	I					16	-8.9													CRN05		
01	0500	I					17	-8.3						5							CRN05	0.00	
01	0505	I					18	-7.8													CRN05		
01	0510	I					17	-8.3													CRN05		
01	0515	I					18	-7.8													CRN05		
01	0520	I					18	-7.8													CRN05		
01	0525	I					17	-8.3													CRN05		
01	0530	I					17	-8.3													CRN05		
01	0535	I					17	-8.3													CRN05		
01	0540	I					17	-8.3													CRN05	0.00	
01	0545	I					19	-7.2													CRN05		
01	0550	I					18	-7.8													CRN05		
01	0555	I					18	-7.8													CRN05		
01	0600	I					18	-7.8						3							CRN05	0.00	
01	0605	I					17	-8.3													CRN05		
01	0610	I					18	-7.8													CRN05		
01	0615	I					17	-8.3													CRN05		
01	0620	I					16	-8.9													CRN05		
01	0625	I					15	-9.4													CRN05		
01	0630	I					14	-10.0													CRN05		
01	0635	I					15	-9.4													CRN05		
01	0640	I					16	-8.9													CRN05		
01	0645	I					16	-8.9															

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

08	2115	I					30	-1.1													CRN05		
08	2120	I					30	-1.1													CRN05		
08	2125	I					30	-1.1													CRN05		
08	2130	I					30	-1.1													CRN05		
08	2135	I					30	-1.1													CRN05		
08	2140	I					30	-1.1													CRN05		
08	2145	I					30	-1.1													CRN05		
08	2150	I					30	-1.1													CRN05		
08	2155	I					30	-1.1													CRN05		
08	2200	I					30	-1.1						0							CRN05	0.00	
08	2205	I					30	-1.1													CRN05		
08	2210	I					30	-1.1													CRN05		
08	2215	I					30	-1.1													CRN05		
08	2220	I					30	-1.1													CRN05		
08	2225	I					30	-1.1													CRN05		
08	2230	I					30	-1.1													CRN05		
08	2235	I					30	-1.1													CRN05		
08	2240	I					30	-1.1													CRN05		
08	2245	I					30	-1.1													CRN05		
08	2250	I					30	-1.1													CRN05		
08	2255	I					30	-1.1													CRN05		
08	2300	I					30	-1.1						0							CRN05	0.00	
08	2305	I					30	-1.1													CRN05		
08	2310	I					30	-1.1													CRN05		
08	2315	I					30	-1.1													CRN05		
08	2320	I					30	-1.1													CRN05		
08	2325	I					30	-1.1													CRN05		
08	2330	I					30	-1.1													CRN05		
08	2335	I					30	-1.1													CRN05		
08	2340	I					30	-1.1													CRN05		
08	2345	I					30	-1.1													CRN05		
08	2350	I					30	-1.1													CRN05		
08	2355	I					30	-1.1													CRN05		
09	0000	I					30	-1.1						0							CRN05	0.00	
09	0005	I					30	-1.1													CRN05		
09	0010	I					30	-1.1													CRN05		
09	0015	I					30	-1.1													CRN05		
09	0020	I					30	-1.1													CRN05		
09	0025	I					30	-1.1													CRN05		
09	0030	I					30	-1.1													CRN05		
09	0035	I					30	-1.1													CRN05		
09	0040	I					30	-1.1													CRN05		
09	0045	I					30	-1.1													CRN05		
09	0050	I					30	-1.1													CRN05		
09	0055	I					30	-1.1													CRN05		
09	0100	I					30	-1.1						0							CRN05	0.00	
09	0105	I					30	-1.1													CRN05		
09	0110	I					30	-1.1													CRN05		
09	0115	I					30	-1.1													CRN05		
09	0120	I					30	-1.1													CRN05		
09	0125	I					30	-1.1													CRN05		
09	0130	I					30	-1.1													CRN05		
09	0135	I					30	-1.1													CRN05		
09	0140	I					30	-1.1													CRN05		
09	0145	I					30	-1.1													CRN05		
09	0150	I					30	-1.1													CRN05		
09	0155	I					30	-1.1													CRN05		

09	0200	I					30	-1.1							0							CRN05	0.00	
09	0205	I					30	-1.1														CRN05		
09	0210	I					30	-1.1														CRN05		
09	0215	I					30	-1.1														CRN05		
09	0220	I					30	-1.1														CRN05		
09	0225	I					30	-1.1														CRN05		
09	0230	I					30	-1.1														CRN05		
09	0235	I					29	-1.7														CRN05		
09	0240	I					29	-1.7														CRN05		
09	0245	I					29	-1.7														CRN05		
09	0250	I					29	-1.7														CRN05		
09	0255	I					29	-1.7														CRN05		
09	0300	I					29	-1.7							0							CRN05	0.00	
09	0305	I					29	-1.7														CRN05		
09	0310	I					29	-1.7														CRN05		
09	0315	I					29	-1.7														CRN05		
09	0320	I					29	-1.7														CRN05		
09	0325	I					29	-1.7														CRN05		
09	0330	I					29	-1.7														CRN05		
09	0335	I					29	-1.7														CRN05		
09	0340	I					29	-1.7														CRN05	0.00	
09	0345	I					29	-1.7														CRN05		
09	0350	I					29	-1.7														CRN05		
09	0355	I					29	-1.7														CRN05		
09	0400	I					29	-1.7							0							CRN05	0.00	
09	0405	I					29	-1.7														CRN05		
09	0410	I					29	-1.7														CRN05		
09	0415	I					29	-1.7														CRN05		
09	0420	I					29	-1.7														CRN05		
09	0425	I					29	-1.7														CRN05		
09	0430	I					29	-1.7														CRN05		
09	0435	I					29	-1.7														CRN05		
09	0440	I					29	-1.7														CRN05		
09	0445	I					29	-1.7														CRN05		
09	0450	I					29	-1.7														CRN05		
09	0455	I					29	-1.7														CRN05		
09	0500	I					29	-1.7							0							CRN05	0.00	
09	0505	I					29	-1.7														CRN05		
09	0510	I					29	-1.7														CRN05		
09	0515	I					29	-1.7														CRN05		
09	0520	I					29	-1.7														CRN05		
09	0525	I					29	-1.7														CRN05		
09	0530	I					29	-1.7														CRN05		
09	0535	I					29	-1.7														CRN05		
09	0540	I					29	-1.7														CRN05		
09	0545	I					29	-1.7														CRN05		
09	0550	I					29	-1.7														CRN05		
09	0555	I					29	-1.7														CRN05		
09	0600	I					29	-1.7							0							CRN05	0.00	
09	0605	I					30	-1.1														CRN05		
09	0610	I					30	-1.1														CRN05		
09	0615	I					30	-1.1														CRN05		
09	0620	I					30	-1.1														CRN05		
09	0625	I					30	-1.1														CRN05		
09	0630	I					30	-1.1														CRN05		
09	0635	I					29	-1.7														CRN05		
09	0640	I					29	-1.7														CRN05		

[illegible]

[illegible]

[illegible]

09	2100	I					30	-1.1							4							CRN05	0.00	
09	2105	I					30	-1.1														CRN05		
09	2110	I					30	-1.1														CRN05		
09	2115	I					30	-1.1														CRN05		
09	2120	I					30	-1.1														CRN05		
09	2125	I					30	-1.1														CRN05		
09	2130	I					30	-1.1														CRN05		
09	2135	I					30	-1.1														CRN05		
09	2140	I					30	-1.1														CRN05		
09	2145	I					30	-1.1														CRN05		
09	2150	I					30	-1.1														CRN05		
09	2155	I					30	-1.1														CRN05		
09	2200	I					30	-1.1							3							CRN05	0.00	
09	2205	I					30	-1.1														CRN05		
09	2210	I					30	-1.1														CRN05		
09	2215	I					30	-1.1														CRN05		
09	2220	I					29	-1.7														CRN05		
09	2225	I					29	-1.7														CRN05		
09	2230	I					29	-1.7														CRN05		
09	2235	I					29	-1.7														CRN05		
09	2240	I					29	-1.7														CRN05		
09	2245	I					29	-1.7														CRN05		
09	2250	I					29	-1.7														CRN05		
09	2255	I					29	-1.7														CRN05		
09	2300	I					29	-1.7							3							CRN05	0.00	
09	2305	I					29	-1.7														CRN05		
09	2310	I					29	-1.7														CRN05		
09	2315	I					29	-1.7														CRN05		
09	2320	I					29	-1.7														CRN05		
09	2325	I					29	-1.7														CRN05		
09	2330	I					28	-2.2														CRN05		
09	2335	I					29	-1.7														CRN05		
09	2340	I					29	-1.7														CRN05		
09	2345	I					29	-1.7														CRN05		
09	2350	I					29	-1.7														CRN05		
09	2355	I					29	-1.7														CRN05		
10	0000	I					28	-2.2							3							CRN05	0.00	
10	0005	I					28	-2.2														CRN05		
10	0010	I					28	-2.2														CRN05		
10	0015	I					28	-2.2														CRN05		
10	0020	I					27	-2.8														CRN05		
10	0025	I					27	-2.8														CRN05		
10	0030	I					27	-2.8														CRN05		
10	0035	I					27	-2.8														CRN05		
10	0040	I					27	-2.8														CRN05		
10	0045	I					27	-2.8														CRN05		
10	0050	I					27	-2.8														CRN05		
10	0055	I					27	-2.8														CRN05		
10	0100	I					27	-2.8							4							CRN05	0.00	
10	0105	I					27	-2.8														CRN05		
10	0110	I					27	-2.8														CRN05		
10	0115	I					26	-3.3														CRN05		
10	0120	I					26	-3.3														CRN05		
10	0125	I					26	-3.3														CRN05		
10	0130	I					26	-3.3														CRN05		
10	0135	I					26	-3.3														CRN05		
10	0140	I					26	-3.3														CRN05		

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

11	0130	I					23	-5.0													CRN05		
11	0135	I					23	-5.0													CRN05		
11	0140	I					23	-5.0													CRN05		
11	0145	I					23	-5.0													CRN05		
11	0150	I					23	-5.0													CRN05		
11	0155	I					23	-5.0													CRN05		
11	0200	I					23	-5.0						7							CRN05	0.00	
11	0205	I					23	-5.0													CRN05		
11	0210	I					23	-5.0													CRN05		
11	0215	I					23	-5.0													CRN05		
11	0220	I					24	-4.4													CRN05		
11	0225	I					25	-3.9													CRN05		
11	0230	I					24	-4.4													CRN05		
11	0235	I					26	-3.3													CRN05		
11	0240	I					26	-3.3													CRN05		
11	0245	I					26	-3.3													CRN05		
11	0250	I					26	-3.3													CRN05		
11	0255	I					26	-3.3													CRN05		
11	0300	I					26	-3.3					9								CRN05	0.00	
11	0305	I					26	-3.3													CRN05		
11	0310	I					26	-3.3													CRN05		
11	0315	I					26	-3.3													CRN05		
11	0320	I					25	-3.9													CRN05		
11	0325	I					26	-3.3													CRN05		
11	0330	I					27	-2.8													CRN05		
11	0335	I					27	-2.8													CRN05		
11	0340	I					27	-2.8													CRN05		
11	0345	I					27	-2.8													CRN05		
11	0350	I					26	-3.3													CRN05		
11	0355	I					26	-3.3													CRN05		
11	0400	I					26	-3.3					11								CRN05	0.00	
11	0405	I					26	-3.3													CRN05		
11	0410	I					25	-3.9													CRN05		
11	0415	I					25	-3.9													CRN05		
11	0420	I					25	-3.9													CRN05		
11	0425	I					25	-3.9													CRN05		
11	0430	I					25	-3.9													CRN05		
11	0435	I					24	-4.4													CRN05		
11	0440	I					24	-4.4													CRN05		
11	0445	I					24	-4.4													CRN05		
11	0450	I					24	-4.4													CRN05		
11	0455	I					24	-4.4													CRN05		
11	0500	I					24	-4.4					10								CRN05	0.00	
11	0505	I					24	-4.4													CRN05		
11	0510	I					24	-4.4													CRN05		
11	0515	I					24	-4.4													CRN05		
11	0520	I					25	-3.9													CRN05		
11	0525	I					25	-3.9													CRN05		
11	0530	I					25	-3.9													CRN05		
11	0535	I					25	-3.9													CRN05		
11	0540	I					25	-3.9													CRN05		
11	0545	I					25	-3.9													CRN05		
11	0550	I					25	-3.9													CRN05		
11	0555	I					25	-3.9													CRN05		
11	0600	I					24	-4.4					12								CRN05	0.00	
11	0605	I					24	-4.4													CRN05		
11	0610	I					24	-4.4													CRN05		

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

17	1415	I					29	-1.7													CRN05		
17	1420	I					30	-1.1													CRN05		
17	1425	I					29	-1.7													CRN05		
17	1430	I					30	-1.1													CRN05		
17	1435	I					29	-1.7													CRN05		
17	1440	I					29	-1.7													CRN05		
17	1445	I					29	-1.7													CRN05		
17	1450	I					29	-1.7													CRN05		
17	1455	I					29	-1.7													CRN05		
17	1500	I					30	-1.1						13							CRN05	0.00	
17	1505	I					29	-1.7													CRN05		
17	1510	I					30	-1.1													CRN05		
17	1515	I					29	-1.7													CRN05		
17	1520	I					29	-1.7													CRN05		
17	1525	I					29	-1.7													CRN05		
17	1530	I					29	-1.7													CRN05		
17	1535	I					30	-1.1													CRN05		
17	1540	I					29	-1.7													CRN05		
17	1545	I					29	-1.7													CRN05		
17	1550	I					29	-1.7													CRN05		
17	1555	I					30	-1.1													CRN05		
17	1600	I					30	-1.1						11							CRN05	0.00	
17	1605	I					30	-1.1													CRN05		
17	1610	I					30	-1.1													CRN05		
17	1615	I					30	-1.1													CRN05		
17	1620	I					30	-1.1													CRN05		
17	1625	I					30	-1.1													CRN05		
17	1630	I					30	-1.1													CRN05		
17	1635	I					30	-1.1													CRN05		
17	1640	I					30	-1.1													CRN05		
17	1645	I					29	-1.7													CRN05		
17	1650	I					29	-1.7													CRN05		
17	1655	I					29	-1.7													CRN05		
17	1700	I					29	-1.7						10							CRN05	0.00	
17	1705	I					28	-2.2													CRN05		
17	1710	I					28	-2.2													CRN05		
17	1715	I					27	-2.8													CRN05		
17	1720	I					27	-2.8													CRN05		
17	1725	I					27	-2.8													CRN05		
17	1730	I					26	-3.3													CRN05		
17	1735	I					26	-3.3													CRN05		
17	1740	I					25	-3.9													CRN05		
17	1745	I					25	-3.9													CRN05		
17	1750	I					24	-4.4													CRN05		
17	1755	I					24	-4.4													CRN05		
17	1800	I					24	-4.4						6							CRN05	0.00	
17	1805	I					24	-4.4													CRN05		
17	1810	I					24	-4.4													CRN05		
17	1815	I					24	-4.4													CRN05		
17	1820	I					24	-4.4													CRN05		
17	1825	I					24	-4.4													CRN05		
17	1830	I					24	-4.4													CRN05		
17	1835	I					24	-4.4													CRN05		
17	1840	I					24	-4.4													CRN05		
17	1845	I					24	-4.4													CRN05		
17	1850	I					24	-4.4													CRN05		
17	1855	I					23	-5.0													CRN05		

17	1900	I					23	-5.0							4							CRN05	0.00	
17	1905	I					22	-5.6														CRN05		
17	1910	I					22	-5.6														CRN05		
17	1915	I					22	-5.6														CRN05		
17	1920	I					22	-5.6														CRN05		
17	1925	I					23	-5.0														CRN05		
17	1930	I					22	-5.6														CRN05		
17	1935	I					22	-5.6														CRN05		
17	1940	I					21	-6.1														CRN05		
17	1945	I					21	-6.1														CRN05		
17	1950	I					20	-6.7														CRN05		
17	1955	I					19	-7.2														CRN05		
17	2000	I					19	-7.2							2							CRN05	0.00	
17	2005	I					20	-6.7														CRN05		
17	2010	I					20	-6.7														CRN05		
17	2015	I					21	-6.1														CRN05		
17	2020	I					21	-6.1														CRN05		
17	2025	I					22	-5.6														CRN05		
17	2030	I					21	-6.1														CRN05		
17	2035	I					21	-6.1														CRN05		
17	2040	I					21	-6.1														CRN05		
17	2045	I					21	-6.1														CRN05		
17	2050	I					21	-6.1														CRN05		
17	2055	I					22	-5.6														CRN05		
17	2100	I					22	-5.6							1							CRN05	0.00	
17	2105	I					21	-6.1														CRN05		
17	2110	I					21	-6.1														CRN05		
17	2115	I					20	-6.7														CRN05		
17	2120	I					20	-6.7														CRN05		
17	2125	I					21	-6.1														CRN05		
17	2130	I					20	-6.7														CRN05		
17	2135	I					21	-6.1														CRN05		
17	2140	I					21	-6.1														CRN05		
17	2145	I					21	-6.1														CRN05		
17	2150	I					21	-6.1														CRN05		
17	2155	I					22	-5.6														CRN05		
17	2200	I					21	-6.1							2							CRN05	0.00	
17	2205	I					21	-6.1														CRN05		
17	2210	I					21	-6.1														CRN05		
17	2215	I					22	-5.6														CRN05		
17	2220	I					22	-5.6														CRN05		
17	2225	I					22	-5.6														CRN05		
17	2230	I					22	-5.6														CRN05		
17	2235	I					22	-5.6														CRN05		
17	2240	I					22	-5.6														CRN05		
17	2245	I					22	-5.6														CRN05		
17	2250	I					22	-5.6														CRN05		
17	2255	I					21	-6.1														CRN05		
17	2300	I					22	-5.6							2							CRN05	0.00	
17	2305	I					22	-5.6														CRN05		
17	2310	I					21	-6.1														CRN05		
17	2315	I					21	-6.1														CRN05		
17	2320	I					21	-6.1														CRN05		
17	2325	I					21	-6.1														CRN05		
17	2330	I					21	-6.1														CRN05		
17	2335	I					20	-6.7														CRN05		
17	2340	I					20	-6.7														CRN05		

[illegible]

[illegible]

[illegible]

19	0900	I					17	-8.3							16							CRN05	0.00	
19	0905	I					17	-8.3														CRN05		
19	0910	I					17	-8.3														CRN05		
19	0915	I					17	-8.3														CRN05		
19	0920	I					17	-8.3														CRN05		
19	0925	I					17	-8.3														CRN05		
19	0930	I					17	-8.3														CRN05		
19	0935	I					17	-8.3														CRN05		
19	0940	I					17	-8.3														CRN05		
19	0945	I					17	-8.3														CRN05		
19	0950	I					17	-8.3														CRN05		
19	0955	I					17	-8.3														CRN05		
19	1000	I					17	-8.3							18							CRN05	0.00	
19	1005	I					17	-8.3														CRN05		
19	1010	I					17	-8.3														CRN05		
19	1015	I					17	-8.3														CRN05		
19	1020	I					17	-8.3														CRN05		
19	1025	I					17	-8.3														CRN05		
19	1030	I					17	-8.3														CRN05		
19	1035	I					17	-8.3														CRN05		
19	1040	I					17	-8.3														CRN05		
19	1045	I					17	-8.3														CRN05		
19	1050	I					17	-8.3														CRN05		
19	1055	I					16	-8.9														CRN05		
19	1100	I					16	-8.9							18							CRN05	0.00	
19	1105	I					16	-8.9														CRN05		
19	1110	I					16	-8.9														CRN05		
19	1115	I					16	-8.9														CRN05		
19	1120	I					16	-8.9														CRN05		
19	1125	I					16	-8.9														CRN05		
19	1130	I					16	-8.9														CRN05		
19	1135	I					16	-8.9														CRN05		
19	1140	I					16	-8.9														CRN05		
19	1145	I					16	-8.9														CRN05		
19	1150	I					16	-8.9														CRN05		
19	1155	I					16	-8.9														CRN05		
19	1200	I					15	-9.4							16							CRN05	0.00	
19	1205	I					15	-9.4														CRN05		
19	1210	I					16	-8.9														CRN05		
19	1215	I					16	-8.9														CRN05		
19	1220	I					16	-8.9														CRN05		
19	1225	I					15	-9.4														CRN05		
19	1230	I					16	-8.9														CRN05		
19	1235	I					16	-8.9														CRN05		
19	1240	I					15	-9.4														CRN05		
19	1245	I					15	-9.4														CRN05		
19	1250	I					15	-9.4														CRN05		
19	1255	I					15	-9.4														CRN05		
19	1300	I					15	-9.4							13							CRN05	0.00	
19	1305	I					16	-8.9														CRN05		
19	1310	I					16	-8.9														CRN05		
19	1315	I					16	-8.9														CRN05		
19	1320	I					16	-8.9														CRN05		
19	1325	I					16	-8.9														CRN05		
19	1330	I					16	-8.9														CRN05		
19	1335	I					16	-8.9														CRN05		
19	1340	I					16	-8.9														CRN05		

[illegible]

19	1830	I				10	-12.2													CRN05		
19	1835	I				10	-12.2													CRN05		
19	1840	I				10	-12.2													CRN05		
19	1845	I				11	-11.7													CRN05		
19	1850	I				11	-11.7													CRN05		
19	1855	I				11	-11.7													CRN05		
19	1900	I				11	-11.7						5							CRN05	0.00	
19	1905	I				11	-11.7													CRN05		
19	1910	I				11	-11.7													CRN05		
19	1915	I				12	-11.1													CRN05		
19	1920	I				13	-10.6													CRN05		
19	1925	I				14	-10.0													CRN05		
19	1930	I				14	-10.0													CRN05		
19	1935	I				14	-10.0													CRN05		
19	1940	I				15	-9.4													CRN05		
19	1945	I				15	-9.4													CRN05		
19	1950	I				14	-10.0													CRN05		
19	1955	I				13	-10.6													CRN05		
19	2000	I				13	-10.6						7							CRN05	0.00	
19	2005	I				13	-10.6													CRN05		
19	2010	I				13	-10.6													CRN05		
19	2015	I				13	-10.6													CRN05		
19	2020	I				13	-10.6													CRN05		
19	2025	I				13	-10.6													CRN05		
19	2030	I				13	-10.6													CRN05		
19	2035	I				13	-10.6													CRN05		
19	2040	I				13	-10.6													CRN05		
19	2045	I				12	-11.1													CRN05		
19	2050	I				12	-11.1													CRN05		
19	2055	I				13	-10.6													CRN05		
19	2100	I				13	-10.6						8							CRN05	0.00	
19	2105	I				13	-10.6													CRN05		
19	2110	I				13	-10.6													CRN05		
19	2115	I				13	-10.6													CRN05		
19	2120	I				13	-10.6													CRN05		
19	2125	I				13	-10.6													CRN05		
19	2130	I				13	-10.6													CRN05		
19	2135	I				13	-10.6													CRN05		
19	2140	I				14	-10.0													CRN05		
19	2145	I				14	-10.0													CRN05		
19	2150	I				14	-10.0													CRN05		
19	2155	I				13	-10.6													CRN05		
19	2200	I				14	-10.0						11							CRN05	0.00	
19	2205	I				14	-10.0													CRN05		
19	2210	I				14	-10.0													CRN05		
19	2215	I				13	-10.6													CRN05		
19	2220	I				14	-10.0													CRN05		
19	2225	I				14	-10.0													CRN05		
19	2230	I				14	-10.0													CRN05		
19	2235	I				14	-10.0													CRN05		
19	2240	I				15	-9.4													CRN05		
19	2245	I				14	-10.0													CRN05		
19	2250	I				14	-10.0													CRN05		
19	2255	I				14	-10.0													CRN05		
19	2300	I				14	-10.0						13							CRN05	0.00	
19	2305	I				14	-10.0													CRN05		
19	2310	I				15	-9.4													CRN05		

19	2315	I					15	-9.4													CRN05		
19	2320	I					15	-9.4													CRN05		
19	2325	I					15	-9.4													CRN05		
19	2330	I					15	-9.4													CRN05		
19	2335	I					15	-9.4													CRN05		
19	2340	I					15	-9.4													CRN05		
19	2345	I					15	-9.4													CRN05		
19	2350	I					15	-9.4													CRN05		
19	2355	I					15	-9.4													CRN05		
20	0000	I					15	-9.4					11								CRN05	0.00	
20	0005	I					15	-9.4													CRN05		
20	0010	I					14	-10.0													CRN05		
20	0015	I					15	-9.4													CRN05		
20	0020	I					15	-9.4													CRN05		
20	0025	I					15	-9.4													CRN05		
20	0030	I					15	-9.4													CRN05		
20	0035	I					15	-9.4													CRN05		
20	0040	I					16	-8.9													CRN05		
20	0045	I					16	-8.9													CRN05		
20	0050	I					17	-8.3													CRN05		
20	0055	I					18	-7.8													CRN05		
20	0100	I					18	-7.8					12								CRN05	0.00	
20	0105	I					18	-7.8													CRN05		
20	0110	I					18	-7.8													CRN05		
20	0115	I					19	-7.2													CRN05		
20	0120	I					20	-6.7													CRN05		
20	0125	I					20	-6.7													CRN05		
20	0130	I					20	-6.7													CRN05		
20	0135	I					20	-6.7													CRN05		
20	0140	I					20	-6.7													CRN05		
20	0145	I					21	-6.1													CRN05		
20	0150	I					20	-6.7													CRN05		
20	0155	I					20	-6.7													CRN05		
20	0200	I					20	-6.7					13								CRN05	0.00	
20	0205	I					21	-6.1													CRN05		
20	0210	I					21	-6.1													CRN05		
20	0215	I					22	-5.6													CRN05		
20	0220	I					22	-5.6													CRN05		
20	0225	I					22	-5.6													CRN05		
20	0230	I					22	-5.6													CRN05		
20	0235	I					22	-5.6													CRN05		
20	0240	I					22	-5.6													CRN05		
20	0245	I					22	-5.6													CRN05		
20	0250	I					22	-5.6													CRN05		
20	0255	I					21	-6.1													CRN05		
20	0300	I					21	-6.1					13								CRN05	0.00	
20	0305	I					21	-6.1													CRN05		
20	0310	I					21	-6.1													CRN05		
20	0315	I					22	-5.6													CRN05		
20	0320	I					22	-5.6													CRN05		
20	0325	I					22	-5.6													CRN05		
20	0330	I					23	-5.0													CRN05		
20	0335	I					23	-5.0													CRN05		
20	0340	I					24	-4.4													CRN05		
20	0345	I					24	-4.4													CRN05		
20	0350	I					24	-4.4													CRN05		
20	0355	I					24	-4.4													CRN05		

20	0400	I					25	-3.9							14							CRN05	0.00	
20	0405	I					25	-3.9														CRN05		
20	0410	I					25	-3.9														CRN05		
20	0415	I					25	-3.9														CRN05		
20	0420	I					26	-3.3														CRN05		
20	0425	I					26	-3.3														CRN05		
20	0430	I					26	-3.3														CRN05		
20	0435	I					26	-3.3														CRN05		
20	0440	I					26	-3.3														CRN05		
20	0445	I					26	-3.3														CRN05		
20	0450	I					26	-3.3														CRN05		
20	0455	I					26	-3.3														CRN05		
20	0500	I					26	-3.3						16								CRN05	0.00	
20	0505	I					26	-3.3														CRN05		
20	0510	I					26	-3.3														CRN05		
20	0515	I					26	-3.3														CRN05		
20	0520	I					26	-3.3														CRN05		
20	0525	I					25	-3.9														CRN05		
20	0530	I					26	-3.3														CRN05		
20	0535	I					26	-3.3														CRN05		
20	0540	I					26	-3.3														CRN05	0.00	
20	0545	I					26	-3.3														CRN05		
20	0550	I					26	-3.3														CRN05		
20	0555	I					26	-3.3														CRN05		
20	0600	I					26	-3.3						16								CRN05	0.00	
20	0605	I					26	-3.3														CRN05		
20	0610	I					26	-3.3														CRN05		
20	0615	I					27	-2.8														CRN05		
20	0620	I					27	-2.8														CRN05		
20	0625	I					27	-2.8														CRN05		
20	0630	I					27	-2.8														CRN05		
20	0635	I					28	-2.2														CRN05		
20	0640	I					28	-2.2														CRN05		
20	0645	I					28	-2.2														CRN05		
20	0650	I					27	-2.8														CRN05		
20	0655	I					27	-2.8														CRN05		
20	0700	I					27	-2.8						14								CRN05	0.00	
20	0705	I					27	-2.8														CRN05		
20	0710	I					26	-3.3														CRN05		
20	0715	I					26	-3.3														CRN05		
20	0720	I					26	-3.3														CRN05		
20	0725	I					26	-3.3														CRN05		
20	0730	I					27	-2.8														CRN05		
20	0735	I					27	-2.8														CRN05		
20	0740	I					27	-2.8														CRN05		
20	0745	I					28	-2.2														CRN05		
20	0750	I					29	-1.7														CRN05		
20	0755	I					30	-1.1														CRN05		
20	0800	I					31	-0.6						13								CRN05	0.00	
20	0805	I					31	-0.6														CRN05		
20	0810	I					31	-0.6														CRN05		
20	0815	I					31	-0.6														CRN05		
20	0820	I					31	-0.6														CRN05		
20	0825	I					31	-0.6														CRN05		
20	0830	I					32	0.0														CRN05		
20	0835	I					32	0.0														CRN05		
20	0840	I					32	0.0														CRN05		

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Date	For Hour (LST) Ending at																							Date	
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM		MID
Maximum Short Duration Precipitation																									
Time Period (Minutes)		5		10		15		20		30		45		60		80		100		120		150		180	
Precipitation (inches)																									
Ending Date Time (yyyy-mm-dd hh:mi)																									

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.

T = Trace
s = Suspect
* = Erroneous
blank = No precipitation observed
M = Missing

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Local Climatological Data Hourly Observations February 2021

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 1957 ft. Lat: 45.7115° N Lon: -99.1296° W

Generated on 02/08/2021

Station: **ABERDEEN 35 WNW, SD US WBAN: 99999954933 (Unknown)**

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

03	2230	I					16	-8.9												CRN05		
03	2235	I					16	-8.9												CRN05		
03	2240	I					16	-8.9												CRN05		
03	2245	I					16	-8.9												CRN05		
03	2250	I					15	-9.4												CRN05		
03	2255	I					15	-9.4												CRN05		
03	2300	I					15	-9.4						0						CRN05	0.00	
03	2305	I					15	-9.4												CRN05		
03	2310	I					15	-9.4												CRN05		
03	2315	I					15	-9.4												CRN05		
03	2320	I					15	-9.4												CRN05		
03	2325	I					14	-10.0												CRN05		
03	2330	I					14	-10.0												CRN05		
03	2335	I					14	-10.0												CRN05		
03	2340	I					14	-10.0												CRN05		
03	2345	I					14	-10.0												CRN05		
03	2350	I					14	-10.0												CRN05		
03	2355	I					14	-10.0												CRN05		
04	0000	I					14	-10.0					0							CRN05	0.00	
04	0005	I					14	-10.0												CRN05		
04	0010	I					14	-10.0												CRN05		
04	0015	I					14	-10.0												CRN05		
04	0020	I					13	-10.6												CRN05		
04	0025	I					13	-10.6												CRN05		
04	0030	I					13	-10.6												CRN05		
04	0035	I					12	-11.1												CRN05		
04	0040	I					12	-11.1												CRN05		
04	0045	I					12	-11.1												CRN05		
04	0050	I					11	-11.7												CRN05		
04	0055	I					11	-11.7												CRN05		
04	0100	I					11	-11.7					0							CRN05	0.00	
04	0105	I					11	-11.7												CRN05		
04	0110	I					11	-11.7												CRN05		
04	0115	I					11	-11.7												CRN05		
04	0120	I					11	-11.7														

[illegible]

[illegible]

04	1245	I					9	-12.8													CRN05		
04	1250	I					10	-12.2													CRN05		
04	1255	I					10	-12.2													CRN05		
04	1300	I					10	-12.2						0							CRN05	0.00	
04	1305	I					10	-12.2													CRN05		
04	1310	I					10	-12.2													CRN05		
04	1315	I					11	-11.7													CRN05		
04	1320	I					11	-11.7													CRN05		
04	1325	I					10	-12.2													CRN05		
04	1330	I					10	-12.2													CRN05		
04	1335	I					11	-11.7													CRN05		
04	1340	I					12	-11.1													CRN05		
04	1345	I					12	-11.1													CRN05		
04	1350	I					12	-11.1													CRN05		
04	1355	I					12	-11.1													CRN05		
04	1400	I					12	-11.1						0							CRN05	0.00	
04	1405	I					12	-11.1													CRN05		
04	1410	I					12	-11.1													CRN05		
04	1415	I					12	-11.1													CRN05		
04	1420	I					12	-11.1													CRN05		
04	1425	I					11	-11.7													CRN05		
04	1430	I					11	-11.7													CRN05		
04	1435	I					11	-11.7													CRN05		
04	1440	I					12	-11.1													CRN05		
04	1445	I					12	-11.1													CRN05		
04	1450	I					13	-10.6													CRN05		
04	1455	I					13	-10.6													CRN05		
04	1500	I					12	-11.1						0							CRN05	0.00	
04	1505	I					12	-11.1													CRN05		
04	1510	I					11	-11.7													CRN05		
04	1515	I					11	-11.7													CRN05		
04	1520	I					11	-11.7													CRN05		
04	1525	I					12	-11.1													CRN05		
04	1530	I					13	-															

[illegible]

[illegible]

[illegible]

[illegible]

05	1230	I					11	-11.7												CRN05		
05	1235	I					11	-11.7												CRN05		
05	1240	I					11	-11.7												CRN05		
05	1245	I					11	-11.7												CRN05		
05	1250	I					11	-11.7												CRN05		
05	1255	I					11	-11.7												CRN05		
05	1300	I					12	-11.1						1						CRN05	0.00	
05	1305	I					12	-11.1												CRN05		
05	1310	I					12	-11.1												CRN05		
05	1315	I					12	-11.1												CRN05		
05	1320	I					12	-11.1												CRN05		
05	1325	I					12	-11.1												CRN05		
05	1330	I					12	-11.1												CRN05		
05	1335	I					12	-11.1												CRN05		
05	1340	I					12	-11.1												CRN05		
05	1345	I					12	-11.1												CRN05		
05	1350	I					12	-11.1												CRN05		
05	1355	I					12	-11.1												CRN05		
05	1400	I					12	-11.1						2						CRN05	0.00	
05	1405	I					12	-11.1												CRN05		
05	1410	I					12	-11.1												CRN05		
05	1415	I					11	-11.7												CRN05		
05	1420	I					12	-11.1												CRN05		
05	1425	I					12	-11.1												CRN05		
05	1430	I					12	-11.1												CRN05		
05	1435	I					12	-11.1												CRN05		
05	1440	I					12	-11.1												CRN05		
05	1445	I					12	-11.1												CRN05		
05	1450	I					12	-11.1												CRN05		
05	1455	I					12	-11.1												CRN05		
05	1500	I					12	-11.1						11						CRN05	0.00	
05	1505	I					12	-11.1												CRN05		
05	1510	I					12	-11.1												CRN05		
05	1515	I					11	-11.7												CRN05		
05	1520	I					11	-11.7														

[illegible]

05	2200	I					-3	-19.4							8							CRN05	0.00	
05	2205	I					-3	-19.4														CRN05		
05	2210	I					-3	-19.4														CRN05		
05	2215	I					-3	-19.4														CRN05		
05	2220	I					-3	-19.4														CRN05		
05	2225	I					-3	-19.4														CRN05		
05	2230	I					-3	-19.4														CRN05		
05	2235	I					-3	-19.4														CRN05		
05	2240	I					-3	-19.4														CRN05		
05	2245	I					-3	-19.4														CRN05		
05	2250	I					-3	-19.4														CRN05		
05	2255	I					-4	-20.0														CRN05		
05	2300	I					-3	-19.4							9							CRN05	0.00	
05	2305	I					-3	-19.4														CRN05		
05	2310	I					-3	-19.4														CRN05		
05	2315	I					-3	-19.4														CRN05		
05	2320	I					-3	-19.4														CRN05		
05	2325	I					-3	-19.4														CRN05		
05	2330	I					-3	-19.4														CRN05		
05	2335	I					-3	-19.4														CRN05		
05	2340	I					-3	-19.4														CRN05		
05	2345	I					-3	-19.4														CRN05		
05	2350	I					-3	-19.4														CRN05		
05	2355	I					-3	-19.4														CRN05		
06	0000	I					-3	-19.4							8							CRN05	0.00	
06	0005	I					-4	-20.0														CRN05		
06	0010	I					-4	-20.0														CRN05		
06	0015	I					-4	-20.0														CRN05		
06	0020	I					-4	-20.0														CRN05		
06	0025	I					-4	-20.0														CRN05		
06	0030	I					-4	-20.0														CRN05		
06	0035	I					-4	-20.0														CRN05		
06	0040	I					-4	-20.0																

[illegible]

06	0730	I					-12	-24.4												CRN05		
06	0735	I					-12	-24.4												CRN05		
06	0740	I					-12	-24.4												CRN05		
06	0745	I					-13	-25.0												CRN05		
06	0750	I					-13	-25.0												CRN05		
06	0755	I					-13	-25.0												CRN05		
06	0800	I					-13	-25.0						13						CRN05	0.00	
06	0805	I					-13	-25.0												CRN05		
06	0810	I					-14	-25.6												CRN05		
06	0815	I					-14	-25.6												CRN05		
06	0820	I					-14	-25.6												CRN05		
06	0825	I					-14	-25.6												CRN05		
06	0830	I					-14	-25.6												CRN05		
06	0835	I					-14	-25.6												CRN05		
06	0840	I					-14	-25.6												CRN05		
06	0845	I					-14	-25.6												CRN05		
06	0850	I					-14	-25.6												CRN05		
06	0855	I					-14	-25.6												CRN05		
06	0900	I					-14	-25.6						15						CRN05	0.00	
06	0905	I					-13	-25.0												CRN05		
06	0910	I					-13	-25.0												CRN05		
06	0915	I					-13	-25.0												CRN05		
06	0920	I					-13	-25.0												CRN05		
06	0925	I					-13	-25.0												CRN05		
06	0930	I					-13	-25.0												CRN05		
06	0935	I					-13	-25.0												CRN05		
06	0940	I					-13	-25.0												CRN05		
06	0945	I					-13	-25.0												CRN05		
06	0950	I					-12	-24.4												CRN05		
06	0955	I					-12	-24.4												CRN05		
06	1000	I					-12	-24.4						15						CRN05	0.00	
06	1005	I					-12	-24.4												CRN05		
06	1010	I					-12	-24.4												CRN05		
06	1015	I					-11	-23.9												CRN05		
06	1020	I					-11	-23.9														

06	1215	I					-7	-21.7													CRN05		
06	1220	I					-6	-21.1													CRN05		
06	1225	I					-7	-21.7													CRN05		
06	1230	I					-6	-21.1													CRN05		
06	1235	I					-6	-21.1													CRN05		
06	1240	I					-6	-21.1													CRN05		
06	1245	I					-6	-21.1													CRN05		
06	1250	I					-6	-21.1													CRN05		
06	1255	I					-5	-20.6													CRN05		
06	1300	I					-5	-20.6						15							CRN05	0.00	
06	1305	I					-5	-20.6													CRN05		
06	1310	I					-5	-20.6													CRN05		
06	1315	I					-5	-20.6													CRN05		
06	1320	I					-5	-20.6													CRN05		
06	1325	I					-5	-20.6													CRN05		
06	1330	I					-5	-20.6													CRN05		
06	1335	I					-5	-20.6													CRN05		
06	1340	I					-5	-20.6													CRN05		
06	1345	I					-4	-20.0													CRN05		
06	1350	I					-4	-20.0													CRN05		
06	1355	I					-4	-20.0													CRN05		
06	1400	I					-4	-20.0						12							CRN05	0.00	
06	1405	I					-4	-20.0													CRN05		
06	1410	I					-4	-20.0													CRN05		
06	1415	I					-4	-20.0													CRN05		
06	1420	I					-4	-20.0													CRN05		
06	1425	I					-4	-20.0													CRN05		
06	1430	I					-4	-20.0													CRN05		
06	1435	I					-4	-20.0													CRN05		
06	1440	I					-3	-19.4													CRN05		
06	1445	I					-4	-20.0													CRN05		
06	1450	I					-3	-19.4													CRN05		
06	1455	I					-4	-20.0													CRN05		
06	1500	I					-3	-19.4						12									

06	1700	I					-4	-20.0							11							CRN05	0.00	
06	1705	I					-4	-20.0														CRN05		
06	1710	I					-4	-20.0														CRN05		
06	1715	I					-5	-20.6														CRN05		
06	1720	I					-5	-20.6														CRN05		
06	1725	I					-5	-20.6														CRN05		
06	1730	I					-5	-20.6														CRN05		
06	1735	I					-5	-20.6														CRN05		
06	1740	I					-6	-21.1														CRN05		
06	1745	I					-6	-21.1														CRN05		
06	1750	I					-7	-21.7														CRN05		
06	1755	I					-7	-21.7														CRN05		
06	1800	I					-7	-21.7							8							CRN05	0.00	
06	1805	I					-7	-21.7														CRN05		
06	1810	I					-8	-22.2														CRN05		
06	1815	I					-8	-22.2														CRN05		
06	1820	I					-8	-22.2														CRN05		
06	1825	I					-8	-22.2														CRN05		
06	1830	I					-9	-22.8														CRN05		
06	1835	I					-9	-22.8														CRN05		
06	1840	I					-9	-22.8														CRN05		
06	1845	I					-9	-22.8														CRN05		
06	1850	I					-10	-23.3														CRN05		
06	1855	I					-10	-23.3														CRN05		
06	1900	I					-10	-23.3							5							CRN05	0.00	
06	1905	I					-10	-23.3														CRN05		
06	1910	I					-9	-22.8														CRN05		
06	1915	I					-10	-23.3														CRN05		
06	1920	I					-10	-23.3														CRN05		
06	1925	I					-12	-24.4														CRN05		
06	1930	I					-11	-23.9														CRN05		
06	1935	I					-11	-23.9														CRN05		
06	1940	I					-11	-23.9																

06	2145	I					-14	-25.6													CRN05		
06	2150	I					-14	-25.6													CRN05		
06	2155	I					-15	-26.1													CRN05		
06	2200	I					-15	-26.1						4							CRN05	0.00	
06	2205	I					-14	-25.6													CRN05		
06	2210	I					-15	-26.1													CRN05		
06	2215	I					-15	-26.1													CRN05		
06	2220	I					-14	-25.6													CRN05		
06	2225	I					-14	-25.6													CRN05		
06	2230	I					-15	-26.1													CRN05		
06	2235	I					-15	-26.1													CRN05		
06	2240	I					-15	-26.1													CRN05		
06	2245	I					-14	-25.6													CRN05		
06	2250	I					-14	-25.6													CRN05		
06	2255	I					-14	-25.6													CRN05		
06	2300	I					-14	-25.6						3							CRN05	0.00	
06	2305	I					-13	-25.0													CRN05		
06	2310	I					-14	-25.6													CRN05		
06	2315	I					-14	-25.6													CRN05		
06	2320	I					-14	-25.6													CRN05		
06	2325	I					-14	-25.6													CRN05		
06	2330	I					-14	-25.6													CRN05		
06	2335	I					-15	-26.1													CRN05		
06	2340	I					-14	-25.6													CRN05		
06	2345	I					-14	-25.6													CRN05		
06	2350	I					-13	-25.0													CRN05		
06	2355	I					-12	-24.4													CRN05		
07	0000	I					-13	-25.0						3							CRN05	0.00	
07	0005	I					-13	-25.0													CRN05		
07	0010	I					-12	-24.4													CRN05		
07	0015	I					-12	-24.4													CRN05		
07	0020	I					-13	-25.0													CRN05		
07	0025	I					-13	-25.0													CRN05		
07	0030	I					-13																

07	0230	I						-16	-26.7												CRN05		
07	0235	I						-16	-26.7												CRN05		
07	0240	I						-15	-26.1												CRN05		
07	0245	I						-15	-26.1												CRN05		
07	0250	I						-16	-26.7												CRN05		
07	0255	I						-16	-26.7												CRN05		
07	0300	I						-16	-26.7						4						CRN05	0.00	
07	0305	I						-16	-26.7												CRN05		
07	0310	I						-15	-26.1												CRN05		
07	0315	I						-16	-26.7												CRN05		
07	0320	I						-16	-26.7												CRN05		
07	0325	I						-16	-26.7												CRN05		
07	0330	I						-16	-26.7												CRN05		
07	0335	I						-17	-27.2												CRN05		
07	0340	I						-17	-27.2												CRN05		
07	0345	I						-17	-27.2												CRN05		
07	0350	I						-17	-27.2												CRN05		
07	0355	I						-16	-26.7												CRN05		
07	0400	I						-16	-26.7						4						CRN05	0.00	
07	0405	I						-16	-26.7												CRN05		
07	0410	I						-16	-26.7												CRN05		
07	0415	I						-16	-26.7												CRN05		
07	0420	I						-16	-26.7												CRN05		
07	0425	I						-15	-26.1												CRN05		
07	0430	I						-16	-26.7												CRN05		
07	0435	I						-16	-26.7												CRN05		
07	0440	I						-16	-26.7												CRN05		
07	0445	I						-16	-26.7												CRN05		
07	0450	I						-16	-26.7												CRN05		
07	0455	I						-17	-27.2												CRN05		
07	0500	I						-17	-27.2						2						CRN05	0.00	
07	0505	I						-17	-27.2												CRN05		
07	0510	I						-17	-27.2												CRN05		
07	0515	I						-17															

07	0715	I						-15	-26.1												CRN05		
07	0720	I						-15	-26.1												CRN05		
07	0725	I						-15	-26.1												CRN05		
07	0730	I						-15	-26.1												CRN05		
07	0735	I						-15	-26.1												CRN05		
07	0740	I						-15	-26.1												CRN05		
07	0745	I						-15	-26.1												CRN05		
07	0750	I						-14	-25.6												CRN05		
07	0755	I						-14	-25.6												CRN05		
07	0800	I						-14	-25.6						1						CRN05	0.00	
07	0805	I						-14	-25.6												CRN05		
07	0810	I						-14	-25.6												CRN05		
07	0815	I						-14	-25.6												CRN05		
07	0820	I						-14	-25.6												CRN05		
07	0825	I						-14	-25.6												CRN05		
07	0830	I						-14	-25.6												CRN05		
07	0835	I						-14	-25.6												CRN05		
07	0840	I						-13	-25.0												CRN05		
07	0845	I						-13	-25.0												CRN05		
07	0850	I						-13	-25.0												CRN05		
07	0855	I						-13	-25.0												CRN05		
07	0900	I						-13	-25.0						3						CRN05	0.00	
07	0905	I						-12	-24.4												CRN05		
07	0910	I						-12	-24.4												CRN05		
07	0915	I						-12	-24.4												CRN05		
07	0920	I						-12	-24.4												CRN05		
07	0925	I						-12	-24.4												CRN05		
07	0930	I						-12	-24.4												CRN05		
07	0935	I						-12	-24.4												CRN05		
07	0940	I						-12	-24.4												CRN05		
07	0945	I						-11	-23.9												CRN05		
07	0950	I						-11	-23.9												CRN05		
07	0955	I						-11	-23.9												CRN05		
07	1000	I						-11	-23														

[illegible]

[illegible]

07	2130	I				-13	-25.0													CRN05		
07	2135	I				-14	-25.6													CRN05		
07	2140	I				-14	-25.6													CRN05		
07	2145	I				-14	-25.6													CRN05		
07	2150	I				-14	-25.6													CRN05		
07	2155	I				-15	-26.1													CRN05		
07	2200	I				-15	-26.1						2							CRN05	0.00	

Date	For Hour (LST) Ending at																							Date	
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM		MID
Maximum Short Duration Precipitation																									
Time Period (Minutes)		5		10		15		20		30		45		60		80		100		120		150		180	
Precipitation (inches)																									
Ending Date Time (yyyy-mm-dd hh:mi)																									

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.

T = Trace
s = Suspect
* = Erroneous
blank = No precipitation observed
M = Missing

Local Climatological Data (LCD) Dataset Documentation

The Local Climatological Data (LCD) summaries provide a synopsis of climatic values for a single weather station over a specific month. The summaries are a product of surface observations from both manual and automated (AWOS, ASOS) stations with source data taken from the National Centers for Environmental Information's Integrated Surface Data (ISD) dataset. Geographic availability includes thousands of locations worldwide. Climatic values given include hourly, daily, and monthly measurements of temperature, dew point, humidity, winds, sky condition, weather type, atmospheric pressure and more.

General conventions: Times are in Local Standard Time (LST) unless otherwise noted. Temperatures are given in whole degrees F and tenths of degrees C (as noted below). Wind speeds are in miles per hour, with wind direction given using a 360 degree compass indicating the direction from which the wind was blowing with respect to true north (e.g. 360 = winds blowing from true north, 180 = south, etc.). Precipitation amounts are given in inches, usually to the nearest hundredth, unless otherwise noted. Trace amounts of precipitation are indicated with a "T." Departures from normal are given for some elements using 1981-2010 as the standard for normal. Further information concerning these generalities and units of measure are given where needed for each section below.

Table of Contents:

Daily Summary/Monthly Summary
Hourly Observations
Hourly Remarks
Hourly Precipitation Table
CSV and ASCII Data Files
Present Weather Appendix

Daily Summary/Monthly Summary:

Daily Summary:

The month and year as well as the station information (location, latitude, longitude, elevation) are included in the heading at the top of the table. A description of the daily data values follows:

Date: Date (day of month given in two digits) Note: Month and year are given in the heading.

Temperature - Max: Maximum temperature for the day (in whole degrees Fahrenheit). An asterisk (*) is used to designate when a daily maximum temperature is also the extreme maximum for the month.

Temperature - Min: Minimum temperature for the day (in whole degrees Fahrenheit). An asterisk (*) is used to designate when a daily minimum temperature is also the extreme minimum for the month.

Temperature - Avg: Average temperature for the day (in whole degrees Fahrenheit). This is based on the arithmetic average of the maximum and minimum temperature for the day.

Temperature - Dep: Average temperature's departure from (1981-2010) normal temperature (in whole Fahrenheit degrees using "-." to indicate below normal)

Temperature - ARH: Average daily relative humidity (in whole percent)

Temperature - ADP: Average daily dew point temperature (in whole degrees Fahrenheit)

Temperature - AWB: Average daily wet-bulb temperature (in whole degrees Fahrenheit)

Degree Days - Heat: Heating degree days (in whole degrees using a 65 degree F base)

Degree Days - Cool: Cooling degree days (in whole degrees using a 65 degree F base)

Sun - Rise: Time of sunrise using a 24-hour clock (Local Standard Time – Daylight Savings Time is not used)

Sun - Set: Time of sunset using a 24-hour clock (Local Standard Time – Daylight Savings Time is not used)

Weather (WT):** Daily occurrences of weather types. The 2-digit number in each designation corresponds to the WT (weather type code) used in GHCN-Daily dataset. For example WT01 in GHCN-Daily is represented as FG:01 (fog) in the LCD. Contractions used are given below.

FG:01 (WT01) - Fog, ice fog, or freezing fog (may include heavy fog)

FG+:02 (WT02) - Heavy fog or heavy freezing fog (not always distinguished from fog)

TS:03 (WT03) - Thunder

PL:04 (WT04) - Ice pellets, sleet, snow pellets or small hail

GR:05 (WT05) - Hail (may include small hail)

GL:06 (WT06) - Glaze or rime

DU:07 (WT07) - Dust, volcanic ash, blowing dust, blowing sand or blowing obstruction

HZ:08 (WT08) - Smoke or haze

BLSN:09 (WT09) - Blowing or drifting snow

FC:10 (WT10) - Tornado, water spout or funnel cloud

WIND:11 (WT11) - High or damaging winds

BLPY:12 (WT12) - Blowing spray

BR:13 (WT13) - Mist

DZ:14 (WT14) - Drizzle

FZDZ:15 (WT15) - Freezing drizzle

RA:16 (WT16) - Rain

FZRA:17 (WT17) - Freezing rain

SN:18 (WT18) - Snow, snow pellets, snow grains or ice crystals

UP:19 (WT19) - Unknown precipitation

MHFG:21 (WT21) - Ground fog

FZFG:22 (WT22) - Ice fog or freezing fog

Precipitation - Total Liquid Content (TLC): Water equivalent amount of precipitation for the day (in inches to hundredths). This is all types of precipitation (melted and frozen). T indicates trace amount of precipitation. If left blank, precipitation amount is unreported.

Precipitation - Snowfall: Daily amount of snowfall (in inches to the tenths). T indicates trace amount.

Precipitation - Snow Depth: Daily reading of snow on ground (in whole inches). T indicates trace amount.

Pressure - Avg Stm: Daily average station pressure (in inches of mercury, to hundredths)

Pressure - Avg SL: Daily average sea level pressure (in inches of mercury, to hundredths)

Wind - Avg Spd: Daily average wind speed in miles per hour miles per hour, to tenths)

Maximum Wind Speed - Peak Speed: peak wind speed for the day (in whole miles per hour)

Maximum Wind Speed - Peak Dir: direction of wind during peak wind speed for the day given as direction from which wind was blowing using a 360 degree compass with respect to true north (e.g north = 360, south = 180, etc.)

Maximum Wind Speed - Sust. Speed: maximum sustained wind speed for the day (in whole miles per hour).
Note: For U.S. locations this is the fastest reported speed for the day that is sustained for at least 2 minutes for years 1994 and later. For earlier years it is the fastest reported speed sustained for at least 1 minute.

Maximum Wind Speed - Sust. Dir): direction of wind during maximum sustained wind speed for the day given as direction from which wind was blowing using a 360 degree compass with respect to true north

Monthly Summary:

The bottom section of the Daily Summary form includes information such as monthly maximum, minimum and mean temperatures, average dew point, wet-bulb and relative humidity, monthly total heating and cooling degree days, precipitation and snowfall totals, etc. Departures from normal (using 1981-2010 normals) are also included for both temperature, precipitation as well as a tally of the number of days selected temperature thresholds (max temperature ≥ 90 / ≤ 32 , min ≤ 32 / ≤ 0) and precipitation thresholds (≥ 0.01 and ≥ 0.10) were reached, number of snowfall days ≥ 1 inch, number of days thunderstorms or heavy fog are reported, etc. The month's greatest amount of precipitation to fall in 24 hours is also given (amount and date) as well as the 24 hour greatest snowfall (amount and date) and highest snow depth (height and date). Monthly and season-to-date totals are computed for heating and cooling degree day data and departures from 1981-2010 normal are also given with these. The extreme highest and lowest sea-level pressures recorded and the dates they occurred are also given. Units used are consistent with what appears in the upper part of the table (described above).

These data originate from the Integrated Surface Data (ISD). More very technical details regarding these observations can be found in the ISD documentation located at www1.ncdc.noaa.gov/pub/data/ish/ish-format-document.pdf.

Hourly Observations:

The month and year as well as the station information (location, latitude, longitude, elevation) are included in the heading at the top of the table. A description of the data values follows:

Date: Date (day of month given in two digits) Note: Month and year are given in the heading.

Time: Time of observation given as a 4-digit number using a 24-hour clock in local standard time (e.g. 1751 = 5:51 pm LST). No adjustments are made to account for Daylight Savings Time (DST).

Station Type: Code showing source or combination of sources used in creating the observation. Decoding information for this is found in Integrated Surface Data documentation (www1.ncdc.noaa.gov/pub/data/ish/ish-format-document.pdf) in Control Data Section position 28.

Sky Conditions: A report of each cloud layer (up to 3) giving the following information.

Each layer given in the following format: ccc:ll-xxx where:

- 1) ccc is Coverage: CLR (clear sky), FEW (few clouds), SCT (scattered clouds), BKN (broken clouds), OVC (overcast), VV (obscured sky), 10 (partially obscured sky).
- 2) ll is Layer amount used in conjunction with coverage code above. Given in eighths (aka “oktas”) of sky covered by cloud. Specifically 00-08 indicates the number of oktas that cloud layer takes up in the total sky. 00 corresponds to CLR, 01-02 corresponds to FEW, 03-04 corresponds to SCT, 05-07 corresponds to BKN and 08 corresponds to OVC. 09 indicates an obscuration (i.e. the sky cannot be seen due to obscuring phenomena - e.g. due to smoke, fog, etc.). 10 indicates a portion of the sky is obscured (i.e. partial obscuration). For additional information see Integrated Surface Data documentation. (<http://www1.ncdc.noaa.gov/pub/data/ish/ish-format-document.pdf>) in Cloud and Solar Data portion of Additional Data Section.

- 3) xxx is the Cloud base height at lowest point of layer. In the case of an obscuration this value represents the vertical visibility from the point of observation. Given in hundreds of feet (e.g. 50 = 5000 ft, 120 = 12000 feet). In some cases a cloud base height will be given without the corresponding cloud amount. In these case the cloud amount is missing or not reported.

Up to 3 layers can be reported however by definition when clear skies are reported it will be reported as only one layer as CLR-00. Obscurations will be reported as VV-xx where xx is the vertical visibility into the obscuring phenomena.

Additional information about cloud cover data: The Integrated Surface Data documentation further defines the coverage of a layer in oktas (i.e. eighths) or tenths of sky covered by cloud as per the following table:

- 0 oktas/0 tenths is defined as CLR (clear sky)
 - 1-2 oktas/1-3 tenths is defined as FEW (few clouds)
 - 3-4 oktas/4-5 tenths is defined as SCT (scattered clouds)
 - 5 to less than 8/6 to less than 10 is defined as BKN (broken clouds)
 - 8 oktas/10 tenths is defined as OVC (overcast)
- Partial obscuration - sky is partially obscured and therefore cloud coverage cannot be fully determined
- Total obscuration - sky is completely obscured and therefore cloud coverage is not available

Note: Since up to 3 cloud layers can be reported, the full state of the sky can best be determined by the contraction given for the last layer. In other words if three layers are reported and the third layer uses BKN then the total state of sky is BKN which is similar in definition to “mostly cloudy.” OVC is similar to “cloudy” or overcast and FEW or SCT is similar to “partly cloudy.” It should also be noted that in cases where there are more than 3 cloud layers, the highest layers will not be reported.

For additional information see Integrated Surface Data documentation (<http://www1.ncdc.noaa.gov/pub/data/ish:ish-format-document.pdf>) in Cloud and Solar Data portion of Additional Data Section.

Visibility: The horizontal distance an object can be seen and identified given in whole miles. Note visibilities less than 3 miles are usually given in smaller increments (e.g. 2.5).

Weather Type (AU|AW|MW): Weather types describe precipitation or obstructions to vision occurring at the time of observation. These are reported by automated sensors (AU or AW) and manually (MW) by human observation. AU elements are listed first and followed by “|” and followed by AW elements. After the AW elements there will be another “|” followed by the MW elements (e.g. “-RA:02|RA:61|RA:61”). In the preceding example -RA:02 is an AU element, RA:61 is an AW element and RA:61 is an MW element. Note that precipitation types often use “-” for light intensity or “+” for heavy intensity. If a precipitation type has no “-” or “+” it is considered to be moderate intensity. It is not uncommon for one type of element to be reported without another. In other words, it is possible to have an AU element without an AW element or MW element. Definitions of contractions used are listed in the Present Weather Appendix at the end of this document.

Dry Bulb Temp (F): This is the dry-bulb temperature and is commonly used as the standard air temperature reported. It is given here in whole degrees Fahrenheit.

Dry Bulb Temp (C): This is the dry-bulb temperature and is commonly used as the standard air temperature reported. It is given here in tenths of a degree Celsius.

Wet Bulb Temp (F): This is the wet-bulb temperature. It is given here in whole degrees Fahrenheit.

Wet Bulb Temp (C): This is the wet-bulb temperature. It is given here in tenths of a degree Celsius.

Dew Point Temp (F): This is the dew point temperature. It is given here in whole degrees Fahrenheit.

Dew Point Temp (C): This is the dew point temperature. It is given here in tenths of a degree Celsius.

Rel Hum: This is the relative humidity given to the nearest whole percentage.

Wind Speed: Speed of the wind at the time of observation given in miles per hour (mph).

Wind Dir: Wind direction from true north using compass directions (e.g. 360 = true north, 180 = south, 270 = west, etc.). Note: A direction of “000” is given for calm winds.

Wind Gusts: Wind gusts occurring during time of observation. Given in miles per hour (mph).

Station Press.: Atmospheric pressure observed at the station during the time of observation. Given in inches of Mercury (in Hg).

Press. Tend: Pressure tendency (In general a 0 through 3 here indicates an increase in pressure over previous 3 hours and a 5 through 8 indicates a decrease over the previous 3 hours and 4 indicates no change during the previous 3 hours). See [ISD Documentation](#) (under Atmospheric-Pressure-Change) for further details.

Net 3-Hr Change: Difference in pressure over the past 3 hours. Prefixed with a “+” or “-” to indicate increase or decrease in pressure respectively. Given in inches of Mercury (in Hg).

Sea Level Press.: Sea level pressure given in inches of Mercury (in Hg).

Report Type: Indicates type of weather observation. See [ISD Documentation](#) for further details (positions 42-46 in Control Data Section).

Precip Total: Amount of precipitation in inches to hundredths over the past hour. For certain automated stations, precipitation will be reported at sub-hourly intervals (e.g. every 15 or 20 minutes) as an accumulated amount of all precipitation within the preceding hour. A “T” indicates a trace amount of precipitation.

Altimeter setting: Atmospheric pressure reduced to sea level using temperature profile of the “standard” atmosphere. Given in inches of Mercury (in Hg).

Hourly Remarks:

Hourly Remarks present the raw surface observation data in the original format encoded into ICAO-standardized METAR format for global dissemination. Further information on decoding these observations can be found in the Federal Meteorological Handbook (FMH) No. 1, Surface Weather Observations & Reports (METAR). (add GOSIC or NWS link) Contact customer service at 828-271-4800 or ncei.orders@noaa.gov for further information.

Hourly Precipitation Table:

The hourly precipitation data contained in the Hourly Observations are formatted into a 1 page table for easy viewing.

The hours of the day are on the horizontal axis in Local Standard Time (note: Daylight Savings Time (DST) is not used) and the days of the month are on the vertical axis. The liquid precipitation observation values given in inches to hundredths and are placed in the cell corresponding to the intersection of the day and hour. All quantities represent what amount of precipitation fell for the hour ending at the time indicated on the table. Trace amounts of precipitation are indicated with a “T.”

Notes:

Blank/null = no precipitation was observed/reported for the hour ending at that date/time.

M = missing

Maximum Short Duration Precipitation: This table gives the greatest amount of precipitation to fall in the month over 12 different periods given in minutes (5, 10, 15, 20, 30, 45, 60, 80, 100, 120, 150 and 180). The top row value gives the maximum precipitation amount to the nearest hundredth of an inch and the bottom row value gives the day of the month and the ending time that the precipitation event ended using a 24-hour clock (Local Standard Time).

Notes:

* = Amounts included in following measurement; time distribution unknown

Blank/null = no precipitation was observed/reported

M = missing

T = indicates trace amount of precipitation

Station Augmentation

The National Weather Service provides addition information relevant to observation stations. This information is presented in the station augmentation section of the PDF. The CSV output formats present station augmentation as: **BackupName, BackupLatitude, BackupLongitude, BackupDirection, BackupEquipment, BackupElevation, BackupElements, BackupDistance, BackupDistanceUnit, and WindEquipmentChangeDate.**

CSV and ASCII Data Files:

Customizable CSV and ASCII data output formats are available for the LCD data for usage in spreadsheet and database applications. Each row of the data begins with the station identification number (usually the contraction “WBAN:” followed by a 5-digit unique number assigned to the station). Optional fields following this are the station name (city or airport identification including state), latitude (degrees), longitude (degrees) and station elevation above sea level (tenths of meters). Remaining data values follow the order and descriptions of the Hourly Observations section above beginning with the date and time. After each day’s hourly observations, the daily data for that day is given in the following row and monthly data is in the row following the final hourly observations for the last day in the month. Daily and monthly values are as described above.

Special Indicator Appendix:

s = suspect value (appears with value)

T = trace precipitation amount or snow depth (an amount too small to measure, usually < 0.005 inches water equivalent) (appears instead of numeric value)

M = missing value (appears instead of value)

Blank = value is unreported (appears instead of value)

Present Weather Appendix:

AU codes

If AU codes are present they are listed first for weather type. AU codes are acquired from automated weather sensors. Codes for precipitation and obscurations are defined below:

DZ:01 - Drizzle

RA:02 - Rain

SN:03 - Snow

SG:04 - Snow Grains
 IC:05 - Ice Crystals
 PL:06 - Ice Pellets
 GR:07 - Hail
 GS:08 - Small Hail an/or Snow Pellets
 UP:09 - Unknown Precipitation
 BR:1 - Mist
 FG:2 - Fog
 FU:3 - Smoke
 VA:4 - Volcanic Ash
 DU:5 - Widespread Dust
 SA:6 - Sand
 HZ:7 - Haze
 PY:8 - Spray
 PO:1 - Well developed dust/sand whirls
 SQ:2 - Squalls
 FC:3 - Funnel Cloud, Waterspout or Tornado
 SS:4 - Sandstorm
 DS:5 - Duststorm

The codes above could be preceded with a combination of the following descriptors:

- = light
 + = heavy
 VC = vicinity (apparent but not at point of observation)
 MI = shallow
 PR = partial
 BC = patches
 DR = low drifting
 BL = blowing
 SH = showers
 TS = thunderstorm
 FZ = freezing

AW codes

Depending on equipment used at the location, some automated stations report *AW* codes either with or instead of AU codes. *AW* codes appear after AU codes (separated by a “[]”) when present. *AW* codes are defined as follows:

HZ:04 - Haze, smoke, or dust in suspension in the air, visibility equal to or greater than 1km
 FU:05 - Smoke
 DU:07 - Dust or sand raised by wind at or near the station at the time of observation, but no well-developed dustw hirl(s) or sand whirl(s), and no duststorm or sandstorm seen or, in the case of ships, blowing spray at the station
 BR:10 - Mist
 11 - Diamond dust
 12 - Distant lightning
 SQ:18 - Squalls
 20 - Fog (during preceding hour but not at time of observation)
 21 - Precipitation (during preceding hour but not at time of observation)
 22 - Drizzle (not freezing) or snow grains (during preceding hour but not at time of observation)
 23 - Rain (not freezing) (during preceding hour but not at time of observation)
 24 - Snow (during preceding hour but not at time of observation)
 25 - Freezing drizzle or freezing rain (during preceding hour but not at time of observation)

26 - Thunderstorm (with or without precipitation) (during preceding hour but not at time of observation)(during preceding hour but not at time of observation)

27 - Blowing or drifting snow or sand (during preceding hour but not at time of observation)

28 - Blowing or drifting snow or sand, visibility equal to or greater than 1 km (during preceding hour but not at time of observation)

29 - Blowing or drifting snow or sand, visibility less than 1 km (during preceding hour but not at time of observation)

FG:30 - Fog

FG:31 - Fog or ice fog in patches

FG:32 - Fog or ice fog, has become thinner during the past hour

FG:33 - Fog or ice fog, no appreciable change during the past hour

FG:34 - Fog or ice fog, has begun or become thicker during the past hour

FG:35 - Fog, depositing rime

40 - Precipitation

41 - Precipitation, slight or moderate

42 - Precipitation, heavy

43 - Liquid precipitation, slight or moderate

44 - Liquid precipitation, heavy

45 - Solid precipitation, slight or moderate

46 - Solid precipitation, heavy

47 - Freezing precipitation, slight or moderate

48 - Freezing precipitation, heavy

DZ:50 - Drizzle

DZ:51 - Drizzle, not freezing, slight

DZ:52 - Drizzle, not freezing, moderate

DZ:53 - Drizzle, not freezing, heavy

FZDZ:54 - Drizzle, freezing, slight

FZDZ:55 - Drizzle, freezing, moderate

FZDZ:56 - Drizzle, freezing, heavy

DZ:57 - Drizzle and rain, slight

DZ:58 - Drizzle and rain, moderate or heavy

RA:60 - Rain

RA:61 - Rain, not freezing, slight

RA:62 - Rain, not freezing, moderate

RA:63 - Rain, not freezing, heavy

FZRA:64 - Rain, freezing, slight

FZRA:65 - Rain, freezing, moderate

FZRA:66 - Rain, freezing, heavy

RA:67 - Rain or drizzle and snow, slight

RA:68 - Rain or drizzle and snow, moderate or heavy

SN:70 - Snow

SN:71 - Snow, slight

SN:72 - Snow, moderate

SN:73 - Snow, heavy

PL:74 - Ice pellets, slight

PL:75 - Ice pellets, moderate

PL:76 - Ice pellets, heavy

SG:77 - Snow grains

IC:78 - Ice crystals

80 - Showers or intermittent precipitation

SHRA:81 - Rain showers or intermittent rain, slight

SHRA:82 - Rain showers or intermittent rain, moderate

SHRA:83 - Rain showers or intermittent rain, heavy

SHRA:84 - Rain showers or intermittent rain, violent

SHSN:85 - Snow showers or intermittent snow, slight

SHSN:86 - Snow showers or intermittent snow, moderate

SHSN:87 - Snow showers or intermittent snow, heavy

HAIL:89 - Hail

TS:90 - Thunderstorm

TS:91 - Thunderstorm, slight or moderate, with no precipitation

TS:92 - Thunderstorm, slight or moderate, with rain showers and/or snow showers

TS HAIL:93 - Thunderstorm, slight or moderate, with hail

TS:94 - Thunderstorm, heavy, with no precipitation

TS:95 - Thunderstorm, heavy, with rain showers and/or snow

TS+HAIL:96 - Thunderstorm, heavy, with hail

+FC:99 - Tornado

MW codes

Depending on equipment used at the location, manually augmented stations report MW codes either with or instead of AU and AW codes. MW codes appear last, after AU and AW codes (all three types are separated by a “|”) when present. MW codes are defined as follows:

FU:04 - Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes

HZ:05 - Haze

DU:06 - Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation

DU:07 - Dust or sand raised by wind at or near the station at the time of observation, but no well-developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen or, in the case of ships, blowing spray at the station

DU:08 - Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no duststorm or sandstorm

DU:09 - Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour

BR:10 - Mist

FG:11 - Patches of shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 meters on land or 10 meters at sea

FG:12 - More or less continuous shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 meters on land or 10 meters at sea

13 - Lightning visible, no thunder heard

14 - Precipitation within sight, not reaching the ground or the surface of the sea

15 - Precipitation within sight, reaching the ground or the surface of the sea, but distant, i.e., estimated to be more than 5 km from the station

16 - Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station

TS:17 - Thunderstorm, but no precipitation at the time of observation

SQ:18 - Squalls at or within sight of the station during the preceding hour or at the time of observation

FC:19 - Funnel cloud(s) (Tornado cloud or waterspout) at or within sight of the station during the preceding hour or at the time of observation

20 - Drizzle (not freezing) or snow grains not falling as shower(s) (during the preceding hour but not at the time of observation)

21 - Rain (not freezing) not falling as shower(s) (during the preceding hour but not at the time of observation))

22 - Snow not falling as shower(s) (during the preceding hour but not at the time of observation)

23 - Rain and snow or ice pellets not falling as shower(s) (during the preceding hour but not at the time of observation)

24 - Freezing drizzle or freezing rain not falling as shower(s) (during the preceding hour but not at the time of observation)

25 - Shower(s) of rain (during the preceding hour but not at the time of observation)

26 - Shower(s) of snow or of rain and snow (during the preceding hour but not at the time of observation)

27 - Shower(s) of hail (Hail, small hail, snow pellets), or rain and hail (during the preceding hour but not at the time of observation)

28 - Fog or ice fog (during the preceding hour but not at the time of observation)

29 - Thunderstorm (with or without precipitation) (during the preceding hour but not at the time of observation)

DU:30 - Slight or moderate duststorm or sandstorm has decreased during the preceding hour

DU:31 - Slight or moderate duststorm or sandstorm no appreciable change during the preceding hour

DU:32 - Slight or moderate duststorm or sandstorm has begun or has increased during the preceding hour

DU:33 - Severe duststorm or sandstorm has decreased during the preceding hour

DU:34 - Severe duststorm or sandstorm no appreciable change during the preceding hour
 DU:35 - Severe duststorm or sandstorm has begun or has increased during the preceding hour
 DRSN:36 - Slight or moderate drifting snow generally low (below eye level)
 DRSN:37 - Heavy drifting snow generally low (below eye level)
 BLSN:38 - Slight or moderate blowing snow generally high (above eye level)
 BLSN:39 - Heavy blowing snow generally high (above eye level)
 FG:40 - Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer
 FG:41 - Fog or ice fog in patches
 FG:42 - Fog or ice fog, sky visible, has become thinner during the preceding hour
 FG:43 - Fog or ice fog, sky invisible, has become thinner during the preceding hour
 FG:44 - Fog or ice fog, sky visible, no appreciable change during the preceding hour
 FG:45 - Fog or ice fog, sky invisible, no appreciable change during the preceding hour
 FG:46 - Fog or ice fog, sky visible, has begun or has become thicker during the preceding hour
 FG:47 - Fog or ice fog, sky invisible, has begun or has become thicker during the preceding hour
 FG:48 - Fog, depositing time, sky visible
 FG:49 - Fog, depositing time, sky invisible
 DZ:50 - Drizzle, not freezing, intermittent, slight at time of observation
 DZ:51 - Drizzle, not freezing, continuous, slight at time of observation
 DZ:52 - Drizzle, not freezing, intermittent, moderate at time of observation
 DZ:53 - Drizzle, not freezing, continuous, moderate at time of observation
 DZ:54 - Drizzle, not freezing, intermittent, heavy (dense) at time of observation
 DZ:55 - Drizzle, not freezing, continuous, heavy (dense) at time of observation
 FZDZ:56 - Drizzle, freezing, slight
 FZDZ:57 - Drizzle, freezing, moderate or heavy (dense)
 DZ:58 - Drizzle and rain, slight
 DZ:59 - Drizzle and rain, moderate or heavy
 RA:60 - Rain, not freezing, intermittent, slight at time of observation
 RA:61 - Rain, not freezing, continuous, slight at time of observation
 RA:62 - Rain, not freezing, intermittent, moderate at time of observation
 RA:63 - Rain, not freezing, continuous, moderate at time of observation
 RA:64 - Rain, not freezing, intermittent, heavy at time of observation
 RA:65 - Rain, not freezing, continuous, heavy at time of observation
 FZRA:66 - Rain, freezing, slight
 FZRA:67 - Rain, freezing, moderate or heavy
 RA:68 - Rain or drizzle and snow, slight
 RA:69 - Rain or drizzle and snow, moderate or heavy
 SN:70 - Intermittent fall of snowflakes, slight at time of observation
 SN:71 - Continuous fall of snowflakes, slight at time of observation
 SN:72 - Intermittent fall of snowflakes, moderate at time of observation
 SN:73 - Continuous fall of snowflakes, moderate at time of observation
 SN:74 - Intermittent fall of snowflakes, heavy at time of observation
 SN:75 - Continuous fall of snowflakes, heavy at time of observation
 76 - Diamond dust (with or without fog)
 SG:77 - Snow grains (with or without fog)
 SN:78 - Isolated star-like snow crystals (with or without fog)
 PL:79 - Ice pellets
 SHRA:80 - Rain shower(s), slight
 SHRA:81 - Rain shower(s), moderate or heavy
 SHRA:82 - Rain shower(s), violent
 SHRASN:83 - Shower(s) of rain and snow mixed, slight
 SHRASN:84 - Shower(s) of rain and snow mixed, moderate or heavy
 SHSN:85 - Show shower(s), slight
 SHSN:86 - Snow shower(s), moderate or heavy

SH:87 - Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, slight

SH:88 - Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, moderate or heavy

SH:89 - Shower(s) of hail (hail, small hail, snow pellets), with or without rain or rain and snow mixed, not associated with thunder, slight

SH:90 - Shower(s) of hail (hail, small hail, snow pellets), with or without rain or rain and snow mixed, not associated with thunder, moderate or heavy

RA:91 - Slight rain at time of observation, thunderstorm during the preceding hour but not at time of observation

RA:92 - Moderate or heavy rain at time of observation, thunderstorm during the preceding hour but not at time of observation

93 - Slight snow, or rain and snow mixed or hail (Hail, small hail, snow pellets), at time of observation, thunderstorm during the preceding hour but not at time of observation

94 - Moderate or heavy snow, or rain and snow mixed or hail(Hail, small hail, snow pellets) at time of observation, thunderstorm during the preceding hour but not at time of observation

TS:95 - Thunderstorm, slight or moderate, without hail (Hail, small hail, snow pellets), but with rain and/or snow at time of observation, thunderstorm at time of observation

TS:96 - Thunderstorm, slight or moderate, with hail (hail, small hail, snow pellets) at time of observation, thunderstorm at time of observation

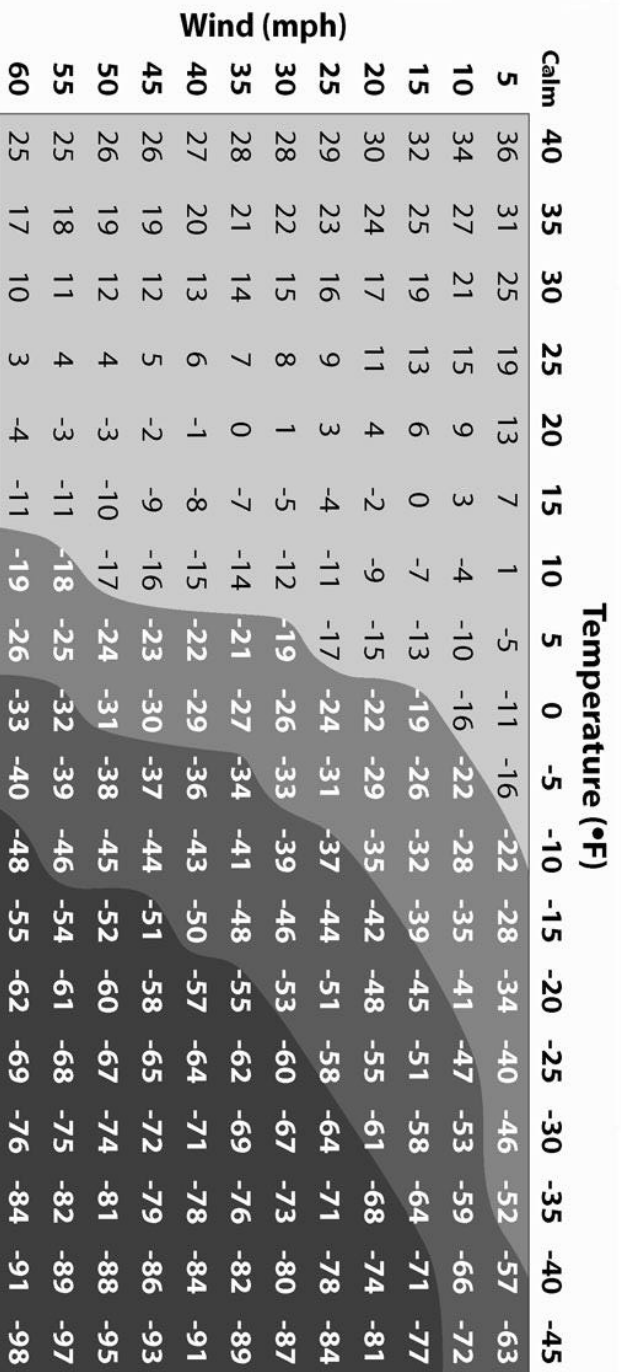
TS:97 - Thunderstorm, heavy, without hail (Hail, small hail, snow pellets), but with rain and/or snow at time of observation, thunderstorm at time of observation

TS:98 - Thunderstorm combined with duststorm or sandstorm at time of observation, thunderstorm at time of observation

TS:99 - Thunderstorm, heavy, with hail (Hail, small hail, snow pellets) at time of observation, thunderstorm at time of observation



Wind Chill Chart



Frostbite Times



30 minutes



10 minutes



5 minutes

$$\text{Wind Chill (°F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

Where, T= Air Temperatur · (°F) V= Wind Speed (mph)

Effective 11/01/01

NOAA's National Weather Service

Heat Index

Temperature (°F)

	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	128	136					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Relative Humidity (%)

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

☐ Caution

☐ Extreme Caution

☐ Danger

☐ Extreme Danger