

72451 DDC Dodge City(Awos) Observations at 00Z 26 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	41									
925.0	746									
921.0	790	37.0	18.0	33	14.31	185	16	317.5	362.9	320.2
902.0	978	33.6	16.6	36	13.35	187	16	315.9	358.0	318.4
898.0	1018	33.2	17.2	39	13.94	188	16	315.9	359.8	318.6
878.0	1219	31.2	16.5	41	13.60	190	16	315.9	358.7	318.5
850.0	1507	28.4	15.4	45	13.11	200	15	315.9	357.2	318.4
819.5	1829	25.3	14.1	50	12.53	200	16	315.9	355.3	318.2
802.0	2020	23.4	13.4	53	12.19	203	16	315.9	354.2	318.2
791.5	2134	22.3	13.2	56	12.23	205	16	315.9	354.4	318.2
764.1	2438	19.4	12.8	66	12.33	195	15	315.9	354.7	318.2
737.6	2743	16.5	12.4	77	12.43	215	18	315.9	355.0	318.3
737.0	2751	16.4	12.4	77	12.43	215	18	315.9	355.0	318.3
700.0	3188	13.4	8.8	74	10.26	240	23	317.3	349.9	319.2
683.0	3395	11.8	6.8	71	9.16	249	21	317.7	347.0	319.5
669.0	3568	11.0	4.0	62	7.68	256	20	318.7	343.5	320.2
661.8	3658	10.6	3.3	61	7.39	260	19	319.2	343.1	320.6
640.0	3938	9.2	1.2	57	6.57	265	20	320.8	342.2	322.0
615.0	4267	6.5	-0.6	60	5.98	270	21	321.4	341.0	322.5
610.0	4334	6.0	-1.0	61	5.87	271	22	321.5	340.8	322.6
592.0	4579	3.8	-0.7	72	6.18	275	25	321.7	342.0	322.9
579.0	4759	2.8	-6.2	52	4.18	278	27	322.6	336.6	323.4
570.6	4877	1.9	-4.1	65	4.99	280	28	322.9	339.5	323.8
568.0	4914	1.6	-3.4	69	5.27	281	28	322.9	340.4	324.0
546.0	5232	-0.3	-7.3	59	4.07	289	29	324.4	338.1	325.1
528.8	5486	-2.4	-7.5	68	4.12	295	29	324.8	338.7	325.6
519.0	5635	-3.7	-7.7	74	4.15	293	28	325.0	339.0	325.8
512.0	5743	-3.5	-8.5	68	3.95	292	27	326.5	340.0	327.3
500.0	5930	-4.7	-10.7	63	3.40	290	25	327.2	339.0	327.9
493.0	6041	-5.5	-10.5	68	3.51	287	25	327.6	339.7	328.3
489.6	6096	-5.7	-11.3	65	3.32	285	25	328.0	339.6	328.7
476.0	6317	-6.3	-14.3	53	2.67	280	26	329.9	339.3	330.4
468.0	6450	-7.3	-16.3	49	2.30	276	26	330.3	338.4	330.7
465.0	6500	-7.7	-19.7	38	1.73	275	26	330.4	336.6	330.7
452.9	6706	-8.6	-23.2	30	1.32	270	27	331.8	336.6	332.1
451.0	6738	-8.7	-23.7	29	1.26	270	27	332.0	336.7	332.3
445.0	6842	-9.5	-19.5	44	1.84	269	27	332.3	339.0	332.6
439.0	6947	-9.9	-29.9	18	0.73	269	27	333.1	335.9	333.2
435.0	7018	-10.5	-24.5	31	1.22	268	27	333.2	337.7	333.4
429.0	7125	-11.1	-30.1	19	0.74	268	27	333.7	336.6	333.9
416.0	7361	-12.7	-24.7	36	1.25	266	27	334.6	339.3	334.9
412.0	7435	-12.9	-28.9	25	0.86	266	27	335.3	338.6	335.5
407.0	7528	-13.5	-26.5	33	1.08	266	27	335.7	339.8	335.9
402.1	7620	-14.0	-32.7	19	0.61	265	27	336.2	338.6	336.3
401.0	7641	-14.1	-34.1	17	0.54	265	26	336.3	338.4	336.4
400.0	7660	-14.3	-34.3	17	0.53	265	26	336.3	338.4	336.4
379.0	8066	-17.3	-37.3	16	0.41	265	23	337.6	339.2	337.7
370.7	8230	-18.6	-36.6	19	0.45	265	22	338.0	339.8	338.1
355.0	8552	-21.1	-35.1	27	0.55	255	23	338.8	341.0	338.9
350.0	8656	-21.5	-41.5	15	0.29	251	23	339.7	340.9	339.7
344.0	8783	-22.7	-37.7	24	0.44	247	24	339.7	341.5	339.8
341.4	8839	-23.1	-39.6	21	0.36	245	24	339.9	341.4	340.0
335.0	8976	-24.1	-44.1	14	0.23	249	24	340.4	341.4	340.4

331.0	9064	-24.9	-40.9	21	0.33	252	24	340.5	341.8	340.5
327.4	9144	-25.4	-44.4	15	0.23	255	24	340.9	341.8	340.9
325.0	9196	-25.7	-46.7	12	0.18	255	24	341.1	341.9	341.2
320.0	9308	-26.7	-41.7	23	0.31	255	23	341.3	342.6	341.4
310.0	9536	-28.3	-45.3	18	0.22	255	23	342.2	343.1	342.2
300.0	9770	-30.3	-45.3	22	0.22	255	22	342.6	343.5	342.6
279.0	10282	-33.9	-48.9	21	0.16	266	23	344.6	345.2	344.6
263.8	10668	-37.2	-51.1	22	0.13	275	24	345.3	345.9	345.4
250.0	11040	-40.3	-53.3	24	0.11	270	24	346.0	346.5	346.0
245.0	11177	-41.7	-53.7	26	0.10	266	24	345.9	346.4	345.9
234.0	11487	-44.3	-61.3	13	0.04	258	24	346.6	346.8	346.6
230.7	11582	-45.1	-60.6	16	0.05	255	24	346.7	346.9	346.7
221.0	11867	-47.7	-58.7	27	0.06	260	26	347.0	347.3	347.0
210.3	12192	-49.8	-62.3	22	0.04	265	28	348.7	348.9	348.7
200.0	12520	-51.9	-65.9	17	0.03	260	26	350.4	350.6	350.4
173.6	13411	-59.1	-72.5	16	0.01	245	26	352.9	353.0	353.0
160.0	13926	-63.3	-76.3	16	0.01	258	23	354.2	354.3	354.2
157.5	14021	-63.8	-76.6	16	0.01	260	22	354.9	355.0	354.9
150.0	14320	-65.5	-77.5	17	0.01	255	22	357.1	357.1	357.1
135.3	14935	-70.0	-80.7	20	0.00	235	20	359.7	359.7	359.7
128.6	15240	-72.3	-82.3	21	0.00	235	24	360.9	360.9	360.9
128.0	15269	-72.5	-82.5	21	0.00	236	24	361.0	361.0	361.0
125.0	15408	-73.3	-84.3	17	0.00	242	26	362.0	362.0	362.0
115.9	15850	-74.7	-85.1	19	0.00	260	32	367.4	367.4	367.4
111.0	16100	-75.5	-85.5	20	0.00	280	24	370.4	370.4	370.4
110.0	16154	-75.4	-84.9	22	0.00	285	26	371.6	371.6	371.6
109.0	16205	-75.3	-84.3	24	0.00	282	23	372.7	372.7	372.7
108.0	16259	-72.7	-83.7	18	0.00	280	20	378.6	378.6	378.6
107.0	16314	-72.3	-83.3	18	0.00	277	18	380.4	380.4	380.4
104.4	16459	-73.1	-83.7	19	0.00	270	10	381.5	381.5	381.5
100.0	16710	-74.5	-84.5	20	0.00	230	15	383.5	383.6	383.5
98.5	16798	-75.1	-85.1	20	0.00	228	14	384.0	384.1	384.0
94.7	17027	-71.3	-83.3	15	0.00	223	13	395.8	395.9	395.8
91.7	17218	-69.7	-81.7	16	0.01	219	11	402.6	402.7	402.6
84.1	17732	-69.7	-81.7	16	0.01	207	7	412.7	412.8	412.7
77.3	18240	-64.5	-79.5	11	0.01	196	3	433.6	433.6	433.6
76.7	18288	-64.3	-79.3	11	0.01	195	3	434.9	435.0	434.9
75.1	18416	-63.9	-78.9	11	0.01	194	6	438.4	438.5	438.4
74.3	18482	-62.3	-78.3	10	0.01	193	7	443.1	443.2	443.1
70.0	18850	-61.5	-78.5	9	0.01	190	15	452.5	452.6	452.5
69.5	18898	-61.6	-78.6	9	0.01	190	15	453.3	453.4	453.3
68.7	18966	-61.7	-78.7	9	0.01	209	13	454.5	454.6	454.5
63.0	19507	-56.6	-77.5	6	0.02	0	0	477.0	477.1	477.0
62.9	19521	-56.5	-77.5	5	0.02	2	0	477.5	477.6	477.5
59.7	19852	-57.3	-80.3	4	0.01	40	6	482.9	483.0	482.9
58.1	20025	-55.9	-80.9	3	0.01	59	8	489.8	489.9	489.8
57.3	20117	-56.5	-81.7	3	0.01	70	10	490.4	490.5	490.4
54.6	20422	-58.7	-84.4	2	0.01	55	18	492.4	492.4	492.4
53.3	20570	-59.7	-85.7	2	0.00	63	16	493.3	493.3	493.3
50.7	20883	-59.9	-86.9	2	0.00	80	12	499.9	499.9	499.9
50.0	20970	-59.1	-87.1	2	0.00	85	11	503.8	503.8	503.8
49.5	21031	-58.1	-86.1	2	0.00	85	14	507.5	507.5	507.5
49.4	21046	-57.9	-85.9	2	0.01	87	14	508.4	508.4	508.4
47.2	21336	-58.3	-86.3	2	0.00	125	20	514.2	514.2	514.2
47.1	21345	-58.3	-86.3	2	0.00	126	20	514.4	514.4	514.4
45.0	21641	-56.2	-86.0	1	0.01	145	14	526.3	526.4	526.3
42.8	21946	-54.1	-85.6	1	0.01	75	13	538.9	538.9	538.9
42.3	22027	-53.5	-85.5	1	0.01	78	14	542.3	542.3	542.3
39.0	22555	-53.3	-85.8	1	0.01	100	22	555.7	555.7	555.7
37.1	22860	-53.2	-86.0	1	0.01	55	22	563.6	563.7	563.6
36.3	23009	-53.1	-86.1	1	0.01	67	25	567.5	567.6	567.5

35.4	23165	-53.7	-86.3	1	0.01	80	29	569.9	570.0	569.9
34.0	23429	-54.7	-86.7	1	0.01	76	28	574.0	574.1	574.0
30.7	24079	-53.4	-86.2	1	0.01	65	25	594.4	594.5	594.4
30.0	24230	-53.1	-86.1	1	0.01	75	23	599.3	599.4	599.3
29.3	24384	-52.8	-85.8	1	0.01	75	30	604.3	604.4	604.3
27.5	24792	-51.9	-84.9	1	0.01	86	28	617.7	617.8	617.7
25.7	25230	-52.3	-85.3	1	0.01	98	26	628.6	628.8	628.6
25.4	25298	-52.2	-85.2	1	0.01	100	26	630.9	631.0	630.9
24.9	25434	-51.9	-84.9	1	0.01	101	27	635.5	635.6	635.5
23.2	25898	-46.9	-81.9	1	0.02	103	29	663.1	663.3	663.1
22.1	26213	-47.0	-82.0	1	0.02	105	31	672.0	672.2	672.0
20.0	26880	-47.1	-82.1	1	0.02	90	30	691.2	691.5	691.2
19.6	27014	-47.1	-82.1	1	0.02	88	30	695.2	695.5	695.2
18.4	27432	-45.9	-81.1	1	0.03	80	29	711.5	711.9	711.5
17.6	27737	-45.0	-80.4	1	0.04	80	31	723.6	724.0	723.7
16.1	28346	-43.2	-79.0	1	0.05	95	28	748.4	749.0	748.5
15.0	28807	-41.9	-77.9	1	0.06	72	30	767.7	768.4	767.7
14.7	28956	-42.0	-78.0	1	0.06	65	30	772.4	773.1	772.4
14.0	29261	-42.1	-78.1	1	0.06	85	28	782.0	782.7	782.0
11.7	30480	-42.6	-78.6	1	0.07	90	31	821.5	822.4	821.5
11.2	30783	-42.7	-78.7	1	0.07	90	29	831.6	832.6	831.7
10.7	31090	-39.9	-77.1	1	0.10	90	27	852.6	853.8	852.6
10.4	31289	-38.1	-76.1	1	0.12	80	32	866.4	867.9	866.5
10.2	31394	-37.6	-75.6	1	0.13	75	34	871.9	873.5	872.0
10.0	31560	-36.9	-74.9	1	0.15	75	34	880.6	882.5	880.7
9.0	32293	-33.9	-72.9	1	0.22	89	38	919.1	922.0	919.2
8.2	32918	-35.7	-74.0	1	0.21	100	41	935.7	938.5	935.8
8.0	33114	-36.3	-74.3	1	0.20	92	43	941.0	943.8	941.1
7.5	33528	-36.4	-74.4	1	0.21	75	47	956.8	959.8	956.9
7.2	33833	-36.5	-74.5	1	0.22	85	37	968.7	971.7	968.8
7.0	34040	-36.5	-74.5	1	0.23	80	38	976.8	980.0	976.9
6.9	34140	-36.5	-74.5	1	0.23			980.8	984.0	980.9

Station information and sounding indices

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Station identifier: DDC
Station number: 72451
Observation time: 150726/0000
Station latitude: 37.76
Station longitude: -99.97
Station elevation: 790.0
Showalter index: -4.05
Lifted index: -4.81
LIFT computed using virtual temperature: -5.53
SWEAT index: 323.79
K index: 43.90
Cross totals index: 20.10
Vertical totals index: 33.10
Totals totals index: 53.20
Convective Available Potential Energy: 2079.83
CAPE using virtual temperature: 2264.42
Convective Inhibition: -6.35
CINS using virtual temperature: -0.58
Equilibrium Level: 137.69
Equilibrium Level using virtual temperature: 137.58
Level of Free Convection: 687.61
LFCT using virtual temperature: 701.37
Bulk Richardson Number: 55.46
Bulk Richardson Number using CAPV: 60.38
Temp [K] of the Lifted Condensation Level: 286.40

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Pres [hPa] of the Lifted Condensation Level: 707.07
Mean mixed layer potential temperature: 316.22
Mean mixed layer mixing ratio: 13.75
1000 hPa to 500 hPa thickness: 5889.00
Precipitable water [mm] for entire sounding: 42.95

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)
