

74455 DVN Davenport 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	107									
986.0	229	30.6	21.6	59	16.78	345	5	305.0	355.4	308.0
971.0	367	29.2	18.2	52	13.73	341	6	304.9	346.2	307.4
944.9	610	26.8	17.0	55	13.04	335	9	304.9	344.1	307.3
925.0	799	25.0	16.0	57	12.51	320	9	304.9	342.5	307.2
912.9	914	24.0	16.0	61	12.68	330	8	304.9	343.1	307.3
902.0	1020	23.0	16.0	65	12.84	320	10	305.0	343.6	307.4
888.0	1156	22.2	13.2	57	10.85	306	13	305.6	338.4	307.5
881.6	1219	21.6	14.0	62	11.52	300	14	305.6	340.4	307.7
865.0	1384	20.2	16.1	77	13.49	297	16	305.8	346.4	308.2
850.0	1535	19.2	14.4	74	12.28	295	18	306.2	343.4	308.5
834.0	1698	17.8	12.8	73	11.26	292	17	306.4	340.6	308.5
824.0	1802	17.8	7.8	52	8.12	290	16	307.5	332.5	309.0
821.4	1829	17.9	4.2	40	6.34	290	16	307.9	327.7	309.1
817.0	1875	18.2	-1.8	26	4.12	290	16	308.7	321.8	309.4
792.5	2134	16.7	-4.6	23	3.44	290	13	309.7	320.8	310.4
779.0	2280	15.8	-6.2	21	3.10	300	14	310.3	320.4	310.9
764.6	2438	15.3	-7.6	20	2.84	310	16	311.4	320.8	312.0
746.0	2646	14.6	-9.4	18	2.53	313	20	312.9	321.3	313.4
737.4	2743	13.7	-6.9	23	3.10	315	22	312.9	323.1	313.5
716.0	2991	11.4	-0.6	43	5.14	312	21	313.1	329.5	314.0
700.0	3179	9.6	-1.4	46	4.96	310	20	313.1	329.0	314.0
698.0	3203	9.4	-0.6	50	5.27	309	20	313.1	330.0	314.1
685.5	3353	8.5	-2.0	47	4.84	300	21	313.8	329.4	314.7
675.0	3480	7.8	-3.2	46	4.50	304	21	314.3	328.9	315.2
665.0	3603	7.0	-1.0	57	5.38	308	22	314.8	332.1	315.8
660.6	3658	6.8	-4.0	46	4.34	310	22	315.1	329.3	316.0
657.0	3703	6.6	-6.4	39	3.62	311	22	315.4	327.3	316.1
636.5	3962	4.9	-8.9	36	3.07	315	20	316.4	326.6	316.9
633.0	4008	4.6	-9.4	35	2.98	314	20	316.5	326.4	317.1
613.1	4267	2.6	-6.4	51	3.88	305	19	317.1	329.9	317.9
613.0	4269	2.6	-6.4	52	3.88	305	19	317.1	329.9	317.9
590.3	4572	0.7	-9.1	48	3.26	290	18	318.3	329.2	319.0
568.3	4877	-1.3	-11.9	44	2.72	295	16	319.5	328.8	320.1
559.0	5009	-2.1	-13.1	43	2.51	299	16	320.1	328.6	320.5
547.0	5182	-3.6	-12.7	49	2.64	305	17	320.3	329.3	320.8
546.0	5196	-3.7	-12.7	50	2.65	304	17	320.3	329.3	320.8
532.0	5401	-3.7	-22.7	21	1.17	296	19	322.7	326.9	322.9
520.0	5582	-3.9	-26.9	15	0.82	288	22	324.6	327.6	324.7
505.0	5812	-5.9	-28.9	14	0.70	278	24	324.9	327.5	325.0
500.0	5890	-5.9	-32.9	10	0.48	275	25	325.8	327.6	325.9
494.0	5985	-6.1	-29.1	14	0.70	275	25	326.7	329.3	326.8
487.0	6096	-7.3	-23.3	27	1.21	275	26	326.5	330.9	326.8
484.0	6144	-7.7	-16.7	48	2.15	275	26	326.6	334.2	327.0
481.0	6193	-8.1	-16.1	53	2.28	275	27	326.7	334.7	327.1
478.0	6241	-8.3	-25.3	24	1.03	275	27	327.0	330.8	327.2
466.0	6438	-9.9	-30.9	16	0.63	275	28	327.4	329.8	327.6
460.0	6538	-10.9	-18.9	52	1.88	275	29	327.4	334.1	327.8
450.0	6706	-12.7	-16.9	71	2.28	275	30	327.2	335.2	327.6
448.0	6740	-12.7	-17.5	67	2.17	275	31	327.6	335.3	328.0
446.0	6775	-12.7	-14.8	84	2.73	275	31	328.0	337.6	328.6
442.0	6843	-13.1	-14.6	88	2.81	275	31	328.4	338.2	328.9
436.0	6948	-13.5	-15.9	82	2.55	275	32	329.1	338.1	329.7

433.0	7000	-14.1	-18.3	70	2.10	275	33	329.0	336.5	329.5
427.0	7106	-13.9	-21.9	51	1.56	275	33	330.6	336.3	330.9
413.0	7359	-15.5	-20.3	67	1.85	275	35	331.7	338.4	332.1
400.0	7600	-17.1	-23.1	60	1.50	275	37	332.7	338.2	333.0
398.9	7620	-17.2	-22.8	62	1.54	275	37	332.8	338.4	333.1
391.0	7770	-18.1	-20.9	79	1.86	275	38	333.5	340.3	333.9
382.0	7944	-18.9	-21.5	80	1.81	274	39	334.7	341.3	335.1
365.0	8282	-20.5	-27.5	54	1.10	273	41	337.0	341.1	337.2
326.0	9107	-27.3	-35.3	47	0.58	270	46	338.6	341.0	338.8
324.3	9144	-27.5	-36.3	43	0.53	270	46	338.9	341.0	339.0
320.0	9240	-27.9	-38.9	34	0.41	270	46	339.6	341.3	339.7
312.0	9421	-29.5	-40.5	34	0.36	270	46	339.9	341.3	339.9
300.0	9700	-31.1	-56.1	7	0.06	270	46	341.4	341.7	341.4
298.0	9747	-31.3	-60.3	4	0.04	270	47	341.8	342.0	341.8
289.0	9963	-33.1	-64.1	3	0.02	272	49	342.2	342.4	342.2
255.0	10826	-40.9	-54.9	21	0.09	279	60	343.2	343.6	343.2
250.0	10960	-41.7	-54.7	23	0.09	280	62	343.9	344.3	343.9
225.0	11668	-46.5	-53.5	45	0.12	280	68	347.1	347.6	347.1
200.0	12440	-53.3	-60.3	42	0.06	280	75	348.2	348.5	348.2
198.2	12497	-53.8	-60.8	42	0.05	280	76	348.4	348.6	348.4
197.0	12537	-54.1	-61.1	42	0.05	280	76	348.4	348.7	348.5
194.0	12635	-54.9	-61.9	42	0.05	280	74	348.7	348.9	348.7
186.0	12902	-56.9	-66.9	27	0.03	281	68	349.7	349.8	349.7
176.0	13250	-59.1	-73.1	15	0.01	282	60	351.6	351.7	351.6
163.0	13728	-60.5	-76.5	11	0.01	283	50	357.1	357.1	357.1
150.0	14240	-64.1	-79.1	11	0.01	285	38	359.5	359.5	359.5
147.9	14326	-64.7	-79.5	11	0.00	290	38	359.9	360.0	359.9
140.7	14630	-66.7	-81.0	12	0.00	275	43	361.7	361.7	361.7
137.0	14789	-67.7	-81.7	12	0.00	278	48	362.5	362.6	362.5
133.7	14935	-68.4	-82.0	13	0.00	280	52	363.8	363.8	363.8
129.0	15149	-69.5	-82.5	14	0.00	291	44	365.6	365.6	365.6
127.0	15240	-69.2	-82.2	14	0.00	295	40	367.7	367.7	367.7
125.0	15337	-68.9	-81.9	14	0.00	290	37	370.0	370.0	370.0
120.7	15545	-70.0	-83.0	13	0.00	280	29	371.7	371.7	371.7
115.0	15832	-71.5	-84.5	13	0.00	265	30	374.1	374.1	374.1
114.7	15850	-71.5	-84.4	13	0.00	260	34	374.4	374.5	374.4
111.0	16041	-71.3	-83.3	15	0.00	266	40	378.3	378.3	378.3
109.0	16149	-69.7	-82.7	14	0.00	270	44	383.2	383.3	383.2
108.9	16154	-69.7	-82.7	14	0.00	270	44	383.4	383.4	383.4
108.0	16203	-69.5	-82.5	14	0.00	271	42	384.6	384.7	384.6
107.0	16259	-67.9	-80.9	14	0.01	272	40	388.7	388.7	388.7
104.0	16431	-65.9	-79.9	13	0.01	275	35	395.7	395.7	395.7
103.0	16489	-63.7	-78.7	11	0.01	277	33	401.0	401.0	401.0
100.0	16670	-64.7	-79.7	11	0.01	280	27	402.4	402.5	402.5
91.9	17188	-63.7	-79.7	10	0.01	311	15	414.3	414.3	414.3
90.5	17283	-61.1	-78.1	9	0.01	317	13	421.2	421.3	421.2
88.8	17401	-60.5	-78.5	8	0.01	324	10	424.7	424.8	424.7
85.0	17673	-62.7	-80.7	7	0.01	340	4	425.6	425.7	425.6
84.9	17678	-62.7	-80.7	7	0.01	340	4	425.8	425.8	425.8
80.9	17983	-61.7	-82.2	5	0.01	265	11	433.9	433.9	433.9
77.0	18288	-60.7	-83.7	3	0.00	325	10	442.1	442.1	442.1
75.6	18401	-60.3	-84.3	3	0.00	341	8	445.1	445.2	445.1
70.0	18880	-61.5	-86.5	2	0.00	50	1	452.5	452.5	452.5
68.2	19041	-61.3	-86.3	2	0.00	25	0	456.3	456.3	456.3
66.5	19202	-60.3	-86.4	2	0.00	0	0	461.9	461.9	461.9
63.6	19477	-58.5	-86.5	2	0.00	207	9	471.6	471.6	471.6
63.3	19507	-58.5	-86.5	2	0.00	190	10	472.2	472.2	472.2
60.9	19749	-58.7	-86.7	2	0.00	174	10	477.1	477.1	477.1
50.2	20974	-53.9	-86.9	1	0.00	92	13	515.4	515.5	515.4
50.0	21000	-53.9	-86.9	1	0.00	90	13	516.0	516.0	516.0
47.4	21336	-55.0	-87.1	1	0.00	85	4	521.1	521.1	521.1

47.3	21355	-55.1	-87.1	1	0.00	85	4	521.4	521.4	521.4
41.2	22241	-52.3	-85.3	1	0.01	85	12	549.3	549.4	549.3
39.2	22555	-52.6	-85.6	1	0.01	85	15	556.4	556.4	556.4
35.7	23165	-53.1	-86.1	1	0.01	115	24	570.3	570.3	570.3
34.3	23422	-53.3	-86.3	1	0.01	100	22	576.2	576.3	576.3
32.5	23774	-51.6	-85.4	1	0.01	80	19	589.9	590.0	589.9
32.0	23871	-51.1	-85.1	1	0.01	83	19	593.7	593.8	593.7
30.0	24290	-51.1	-85.1	1	0.01	95	21	604.7	604.8	604.7
29.6	24384	-51.1	-85.0	1	0.01	100	21	607.2	607.3	607.2
28.2	24689	-51.2	-84.7	1	0.01	75	23	615.1	615.2	615.1
26.3	25147	-51.3	-84.3	1	0.01	93	19	627.3	627.5	627.3
24.5	25603	-49.2	-83.4	1	0.02	110	16	645.9	646.0	645.9
23.4	25908	-47.9	-82.8	1	0.02	70	15	658.5	658.7	658.6
23.3	25942	-47.7	-82.7	1	0.02	71	16	660.0	660.1	660.0
22.4	26213	-47.9	-82.7	1	0.02	80	21	667.1	667.3	667.1
21.4	26518	-48.2	-82.6	1	0.02	70	19	675.3	675.5	675.3
20.0	26950	-48.5	-82.5	1	0.02	85	23	687.0	687.2	687.0
19.8	27016	-48.5	-82.5	1	0.02	86	23	688.9	689.2	688.9
18.6	27432	-46.4	-81.4	1	0.03	95	22	708.0	708.3	708.0
17.8	27737	-44.8	-80.6	1	0.03	80	25	722.3	722.7	722.4
17.5	27835	-44.3	-80.3	1	0.04	82	25	727.0	727.4	727.0
15.8	28519	-44.9	-79.9	1	0.04	96	26	746.6	747.1	746.6
14.8	28956	-44.3	-79.7	1	0.05	105	27	762.7	763.3	762.8
13.5	29566	-43.4	-79.3	1	0.06	75	27	785.9	786.5	785.9
13.4	29623	-43.3	-79.3	1	0.06	78	28	788.1	788.7	788.1
12.9	29870	-42.2	-78.5	1	0.07	90	34	800.0	800.8	800.0
11.8	30480	-39.5	-76.5	1	0.10	75	33	830.3	831.5	830.3
11.3	30785	-38.1	-75.4	1	0.12	75	38	845.8	847.3	845.9
10.3	31424	-35.3	-73.3	1	0.18	71	41	879.1	881.5	879.2
10.0	31630	-34.9	-73.9	1	0.17	70	42	888.1	890.3	888.2
9.5	32004	-35.3	-74.0	1	0.18	75	47	900.5	902.8	900.5
8.2	33006	-36.3	-74.3	1	0.20	85	44	934.4	937.1	934.5
7.9	33265	-34.3	-73.3	1	0.24	87	43	952.4	955.6	952.5
7.6	33528	-33.9	-72.9	1	0.26	90	42	964.2	967.8	964.3
7.0	34110	-33.1	-72.1	1	0.32	90	43	990.8	995.4	991.0
6.7	34442	-32.3	-72.0	1	0.34	100	40	1007.4	1012.4	1007.6
6.5	34632	-31.9	-71.9	1	0.36			1017.1	1022.2	1017.3

Station information and sounding indices

Station identifier: DVN

Station number: 74455

Observation time: 150726/0000

Station latitude: 41.61

Station longitude: -90.58

Station elevation: 229.0

Showalter index: -0.37

Lifted index: -1.45

LIFT computed using virtual temperature: -2.27

SWEAT index: 233.81

K index: 28.50

Cross totals index: 20.30

Vertical totals index: 25.10

Totals totals index: 45.40

Convective Available Potential Energy: 411.07

CAPE using virtual temperature: 538.13

Convective Inhibition: -130.21

CINS using virtual temperature: -55.39

Equilibrium Level: 244.70

Equilibrium Level using virtual temperature: 244.17

Level of Free Convection: 688.19
LFCT using virtual temperature: 713.69
Bulk Richardson Number: 25.65
Bulk Richardson Number using CAPV: 33.58
Temp [K] of the Lifted Condensation Level: 288.83
Pres [hPa] of the Lifted Condensation Level: 827.37
Mean mixed layer potential temperature: 304.91
Mean mixed layer mixing ratio: 13.79
1000 hPa to 500 hPa thickness: 5783.00
Precipitable water [mm] for entire sounding: 34.66

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)
