

72582 LKN Elko Observations at 12Z 24 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	108									
925.0	797									
850.0	1533									
844.0	1608	13.4	12.1	92	10.61	250	4	300.8	332.2	302.7
840.0	1648	14.6	12.7	88	11.10	249	4	302.4	335.6	304.5
822.1	1829	15.1	9.6	70	9.18	245	5	304.8	332.6	306.5
810.0	1954	15.4	7.4	59	8.03	253	7	306.5	331.1	307.9
792.8	2134	14.3	6.3	59	7.61	265	9	307.2	330.6	308.6
779.0	2281	13.4	5.4	58	7.27	267	8	307.7	330.2	309.1
764.5	2438	13.1	3.5	52	6.46	270	7	309.1	329.2	310.3
761.0	2476	13.0	3.0	51	6.28	268	7	309.4	329.0	310.6
736.8	2743	10.8	2.4	56	6.20	255	7	309.9	329.3	311.0
700.0	3166	7.4	1.4	66	6.09	270	5	310.6	329.8	311.8
684.3	3353	5.8	0.6	69	5.88	210	2	310.9	329.5	312.0
680.0	3404	5.4	0.4	70	5.83	202	3	311.0	329.4	312.1
668.0	3550	4.6	-0.2	71	5.68	181	7	311.7	329.7	312.8
659.2	3658	3.8	0.4	78	6.00	165	9	312.0	331.0	313.1
645.0	3836	2.6	1.3	91	6.56	174	15	312.6	333.3	313.8
628.0	4052	1.2	0.0	92	6.13	184	21	313.4	332.8	314.5
611.4	4267	-1.0	-2.8	88	5.11	195	28	313.2	329.5	314.1
611.0	4272	-1.1	-2.9	88	5.08	195	28	313.2	329.5	314.1
604.0	4365	-1.1	-5.1	74	4.36	193	27	314.2	328.3	315.0
600.0	4418	-1.1	-8.1	59	3.48	193	27	314.8	326.2	315.5
594.0	4498	-2.1	-7.1	69	3.80	191	26	314.5	326.9	315.3
586.0	4606	-2.7	-10.7	54	2.90	189	26	315.1	324.7	315.6
575.0	4756	-3.7	-10.7	58	2.96	187	25	315.6	325.4	316.2
566.3	4877	-4.3	-12.9	51	2.51	185	24	316.3	324.8	316.8
554.0	5050	-5.1	-16.1	42	1.98	202	23	317.3	324.1	317.7
544.8	5182	-6.0	-11.2	67	3.00	215	23	317.8	327.8	318.3
544.0	5193	-6.1	-10.8	69	3.10	215	23	317.8	328.1	318.4
525.0	5471	-7.9	-11.1	78	3.14	215	23	318.9	329.4	319.5
516.0	5606	-8.1	-13.0	68	2.74	215	24	320.2	329.5	320.7
509.0	5712	-8.9	-12.0	78	3.01	215	24	320.5	330.7	321.1
500.0	5850	-10.1	-12.4	83	2.97	215	24	320.7	330.7	321.2
496.0	5912	-10.5	-12.5	85	2.97	216	23	320.9	331.0	321.5
489.0	6021	-11.1	-14.0	79	2.66	218	21	321.5	330.6	322.0
484.2	6096	-10.9	-16.2	65	2.24	220	19	322.7	330.4	323.1
481.0	6147	-10.7	-17.7	56	1.99	221	19	323.5	330.4	323.9
467.0	6373	-12.7	-19.7	56	1.73	225	20	323.8	329.9	324.1
460.0	6487	-13.7	-22.7	47	1.35	226	21	323.9	328.7	324.2
446.8	6706	-15.6	-21.2	62	1.58	230	22	324.2	329.8	324.5
441.0	6805	-16.5	-20.6	71	1.69	226	22	324.3	330.3	324.6
431.0	6977	-17.3	-23.3	60	1.37	219	22	325.4	330.3	325.7
413.0	7294	-19.9	-22.1	83	1.59	206	21	326.1	331.7	326.4
411.8	7315	-19.9	-22.4	81	1.55	205	21	326.3	331.9	326.6
410.0	7348	-19.9	-22.8	78	1.50	204	22	326.7	332.1	327.0
407.0	7402	-19.9	-31.9	34	0.65	203	23	327.4	329.9	327.5
404.0	7457	-20.1	-36.1	23	0.44	202	24	327.9	329.5	327.9
400.0	7530	-20.9	-37.9	20	0.37	200	25	327.7	329.2	327.8
397.0	7586	-21.3	-36.3	25	0.43	200	27	327.9	329.6	328.0
395.2	7620	-21.6	-35.2	28	0.49	200	28	327.9	329.8	328.0
387.0	7774	-23.1	-30.1	53	0.82	203	29	328.0	331.0	328.1
370.0	8102	-26.1	-29.3	74	0.92	210	31	328.2	331.6	328.4

361.0	8280	-27.7	-30.4	78	0.85	214	32	328.4	331.6	328.6
358.0	8340	-28.3	-32.2	69	0.72	216	32	328.4	331.1	328.5
354.0	8421	-28.3	-33.2	63	0.66	217	32	329.4	331.9	329.6
352.0	8461	-28.3	-32.4	68	0.72	218	33	330.0	332.7	330.1
348.4	8534	-29.0	-31.3	81	0.81	220	33	330.0	333.0	330.1
347.0	8564	-29.3	-30.8	87	0.85	221	34	330.0	333.1	330.1
336.0	8794	-30.7	-32.3	86	0.76	226	39	331.1	334.0	331.2
334.0	8836	-31.3	-34.1	76	0.64	227	40	330.8	333.3	331.0
329.0	8943	-32.3	-43.3	33	0.25	230	42	330.9	331.9	330.9
323.0	9073	-32.9	-48.9	19	0.14	233	45	331.8	332.4	331.8
319.8	9144	-33.5	-48.0	22	0.16	235	47	332.0	332.6	332.0
308.0	9407	-35.5	-44.5	39	0.24	232	55	332.7	333.7	332.8
300.0	9590	-36.7	-47.7	31	0.17	230	61	333.5	334.2	333.6
286.0	9919	-38.5	-57.5	12	0.06	230	72	335.5	335.8	335.6
280.2	10058	-39.5	-56.8	14	0.06	230	77	336.0	336.3	336.0
273.0	10237	-40.9	-55.9	18	0.07	229	78	336.6	336.9	336.6
250.0	10830	-44.5	-61.5	13	0.04	225	80	339.8	339.9	339.8
224.0	11555	-49.7	-64.7	16	0.03	222	86	342.6	342.8	342.6
217.0	11762	-49.9	-66.9	12	0.02	221	88	345.4	345.6	345.4
212.8	11887	-50.7	-68.1	11	0.02	220	89	346.2	346.3	346.2
208.0	12036	-51.6	-69.6	10	0.02	220	89	347.1	347.1	347.1
200.0	12290	-53.1	-72.1	8	0.01	220	88	348.5	348.6	348.5
191.0	12585	-54.7	-73.7	8	0.01	223	84	350.6	350.6	350.6
185.0	12789	-54.9	-74.9	7	0.01	224	81	353.4	353.5	353.5
180.0	12964	-53.3	-75.3	5	0.01	226	78	358.8	358.9	358.9
172.0	13255	-56.1	-79.1	4	0.00	229	74	358.9	358.9	358.9
167.8	13411	-56.5	-79.8	4	0.00	230	72	360.8	360.8	360.8
157.0	13832	-57.5	-81.5	3	0.00	230	58	366.0	366.0	366.0
152.4	14021	-57.1	-82.0	3	0.00	230	51	369.8	369.8	369.8
152.0	14036	-57.1	-82.1	3	0.00	230	51	370.1	370.1	370.1
150.0	14120	-57.7	-82.7	3	0.00	230	51	370.5	370.5	370.5
136.0	14736	-60.5	-85.5	2	0.00	230	47	376.0	376.0	376.0
129.0	15063	-63.1	-87.1	3	0.00	230	44	377.1	377.1	377.1
125.4	15240	-62.4	-86.4	3	0.00	230	43	381.5	381.5	381.5
125.0	15258	-62.3	-86.3	3	0.00	231	43	381.9	381.9	381.9
118.0	15613	-64.5	-86.5	3	0.00	245	35	384.2	384.2	384.2
116.0	15718	-63.9	-86.9	3	0.00	243	34	387.2	387.2	387.2
107.0	16213	-64.7	-87.7	3	0.00	236	31	394.8	394.8	394.8
106.0	16270	-63.3	-86.3	3	0.00	235	31	398.5	398.5	398.5
104.0	16388	-63.5	-87.5	3	0.00	234	30	400.3	400.3	400.3
103.0	16447	-62.1	-86.1	3	0.00	233	30	404.1	404.1	404.1
101.0	16569	-62.9	-86.9	3	0.00	231	29	404.8	404.8	404.8
100.0	16630	-62.3	-87.3	2	0.00	230	29	407.1	407.1	407.1
97.5	16786	-61.9	-86.9	2	0.00	226	21	410.8	410.8	410.8
95.8	16896	-58.9	-85.9	2	0.00	224	15	418.8	418.8	418.8
93.2	17069	-59.8	-86.8	2	0.00	220	6	420.4	420.4	420.4
89.8	17299	-60.9	-87.9	2	0.00	190	9	422.6	422.6	422.6
88.7	17374	-60.0	-87.8	2	0.00	180	10	425.9	425.9	425.9
88.4	17396	-59.7	-87.7	1	0.00	184	11	426.9	426.9	426.9
84.5	17678	-60.0	-88.3	1	0.00	230	25	431.8	431.8	431.8
80.4	17983	-60.4	-88.9	1	0.00	265	14	437.2	437.2	437.2
76.6	18288	-60.7	-89.5	1	0.00	190	10	442.7	442.7	442.7
74.3	18477	-60.9	-89.9	1	0.00	219	8	446.1	446.1	446.1
70.0	18850	-57.5	-89.5	1	0.00	275	4	461.0	461.0	461.0
69.5	18898	-57.2	-89.2	1	0.00	215	4	462.6	462.7	462.6
68.2	19015	-56.5	-88.5	1	0.00	214	5	466.6	466.6	466.6
63.1	19507	-56.2	-88.2	1	0.00	210	10	477.6	477.6	477.6
54.7	20422	-55.8	-87.8	1	0.00	130	13	498.7	498.7	498.7
50.0	20990	-55.5	-87.5	1	0.00	100	11	512.2	512.3	512.2
49.7	21031	-55.6	-87.6	1	0.00	85	11	513.0	513.0	513.0
47.4	21336	-56.2	-88.2	1	0.00	140	10	518.6	518.6	518.6

47.0	21382	-56.3	-88.3	1	0.00	135	9	519.5	519.5	519.5
45.1	21641	-55.3	-87.5	1	0.00	105	2	527.9	528.0	527.9
39.3	22527	-51.9	-84.9	1	0.01	42	12	557.8	557.9	557.8
39.1	22555	-51.9	-84.9	1	0.01	40	12	558.5	558.6	558.5
37.3	22860	-51.9	-84.9	1	0.01	25	14	566.0	566.1	566.0
35.6	23165	-52.0	-85.0	1	0.01	75	24	573.6	573.7	573.6
30.9	24079	-52.1	-85.1	1	0.01	90	21	597.0	597.1	597.0
30.3	24206	-52.1	-85.1	1	0.01	93	22	600.3	600.4	600.3
30.0	24270	-51.9	-84.9	1	0.01	95	23	602.5	602.6	602.5
29.5	24384	-51.6	-84.7	1	0.01	105	25	606.5	606.6	606.5
26.9	24994	-49.7	-83.5	1	0.01	115	22	628.1	628.2	628.1
26.3	25130	-49.3	-83.3	1	0.01	104	19	633.0	633.1	633.0
25.6	25298	-49.5	-83.5	1	0.01	90	15	637.2	637.3	637.2
24.5	25603	-49.7	-83.7	1	0.01	120	11	644.9	645.0	644.9
23.4	25908	-50.0	-84.0	1	0.01	95	10	652.7	652.8	652.7
23.1	25981	-50.1	-84.1	1	0.01	90	11	654.5	654.7	654.5
22.3	26213	-49.5	-83.8	1	0.02	75	14	662.9	663.1	662.9
20.0	26930	-47.7	-82.7	1	0.02	85	29	689.4	689.6	689.4
18.6	27432	-46.8	-82.0	1	0.03	80	39	707.2	707.5	707.2
13.2	29700	-42.7	-78.7	1	0.06	91	38	793.5	794.2	793.5
12.0	30342	-43.3	-79.3	1	0.06	94	38	813.3	814.0	813.3
11.8	30480	-42.8	-78.9	1	0.07	95	38	819.9	820.7	819.9
11.2	30785	-41.6	-78.0	1	0.08	95	39	834.5	835.5	834.6
10.8	31090	-40.5	-77.1	1	0.10	100	27	849.5	850.7	849.5
10.3	31394	-39.4	-76.2	1	0.12	80	38	864.6	866.0	864.6
10.0	31580	-38.7	-75.7	1	0.13	90	39	873.9	875.6	874.0
9.4	32004	-37.2	-74.7	1	0.16	95	41	895.1	897.2	895.1
8.2	32918	-33.9	-72.5	1	0.26	95	31	942.2	945.7	942.4
7.8	33308	-32.5	-71.5	1	0.31	85	43	963.0	967.4	963.2
7.6	33528	-32.7	-71.7	1	0.31	80	49	970.8	975.1	970.9
7.2	33833	-33.0	-72.0	1	0.31	75	40	981.5	985.9	981.7
7.0	34069	-33.3	-72.3	1	0.31			990.0	994.4	990.2

Station information and sounding indices

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Station identifier: LKN
Station number: 72582
Observation time: 150724/1200
Station latitude: 40.86
Station longitude: -115.73
Station elevation: 1608.0
Lifted index: 0.14
LIFT computed using virtual temperature: 0.05
Convective Available Potential Energy: 0.26
CAPE using virtual temperature: 10.08
Convective Inhibition: -166.37
CINS using virtual temperature: -147.19
Equilibrium Level: 357.78
Equilibrium Level using virtual temperature: 357.50
Level of Free Convection: 614.70
LFCT using virtual temperature: 616.28
Bulk Richardson Number: 0.02
Bulk Richardson Number using CAPV: 0.69
Temp [K] of the Lifted Condensation Level: 281.21
Pres [hPa] of the Lifted Condensation Level: 753.51
Mean mixed layer potential temperature: 304.91
Mean mixed layer mixing ratio: 9.13
1000 hPa to 500 hPa thickness: 5742.00
Precipitable water [mm] for entire sounding: 22.14

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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)
