

74646 LMN Lamont Oklahoma 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	78									
974.0	317	34.6	22.6	50	18.09	150	14	310.1	365.7	313.4
942.8	610	31.9	20.6	51	16.47	165	19	310.3	360.9	313.3
925.0	782	30.4	19.4	52	15.58	165	19	310.4	358.3	313.3
911.3	914	29.2	19.1	55	15.49	165	19	310.4	358.1	313.3
880.5	1219	26.3	18.3	61	15.29	165	17	310.6	357.6	313.4
852.0	1511	23.6	17.6	69	15.10	179	15	310.6	357.1	313.4
850.0	1532	23.6	17.6	69	15.13	180	15	310.9	357.4	313.7
821.4	1829	21.5	15.9	71	14.04	205	14	311.7	355.1	314.3
793.0	2134	19.3	14.2	72	12.99	225	14	312.5	352.8	314.9
771.0	2378	17.6	12.8	73	12.19	245	16	313.2	351.1	315.5
765.6	2438	17.6	9.6	59	9.87	250	17	313.8	344.8	315.7
764.0	2456	17.6	8.6	56	9.26	250	17	314.0	343.1	315.8
756.0	2546	18.8	-1.2	26	4.66	250	15	316.2	331.4	317.1
738.7	2743	17.5	-2.5	25	4.34	250	10	316.9	331.2	317.8
712.7	3048	15.6	-4.4	25	3.88	245	14	318.0	330.9	318.8
703.0	3165	14.8	-5.2	25	3.71	264	11	318.4	330.8	319.2
700.0	3201	14.6	-3.4	29	4.27	270	10	318.6	332.7	319.4
687.3	3353	13.4	-3.2	31	4.43	270	10	319.0	333.7	319.9
662.4	3658	11.1	-2.7	38	4.77	300	9	319.8	335.5	320.7
615.4	4267	6.5	-1.7	56	5.52	335	10	321.3	339.5	322.3
593.1	4572	4.2	-1.2	68	5.94	320	22	322.0	341.6	323.1
571.6	4877	1.9	-0.7	83	6.40	325	20	322.7	343.7	323.9
571.0	4886	1.8	-0.7	83	6.41	324	20	322.7	343.8	323.9
550.5	5182	1.0	-4.2	68	5.11	305	15	325.1	342.3	326.2
545.0	5262	0.8	-5.2	64	4.79	306	15	325.8	342.0	326.8
510.1	5791	-3.0	-8.2	67	4.06	310	14	327.5	341.4	328.3
500.0	5950	-4.1	-9.1	68	3.86	295	17	328.0	341.2	328.7
497.0	5997	-4.3	-10.3	63	3.53	293	17	328.3	340.5	329.0
490.7	6096	-4.9	-10.9	63	3.42	290	17	328.7	340.6	329.4
435.9	7010	-10.8	-16.1	65	2.51	265	12	332.6	341.6	333.1
409.0	7502	-13.9	-18.9	66	2.11	277	16	334.7	342.4	335.1
404.0	7595	-13.7	-27.7	30	0.98	279	17	336.1	339.9	336.3
402.6	7620	-13.9	-27.2	32	1.02	280	17	336.2	340.1	336.4
400.0	7670	-14.3	-26.3	35	1.12	275	19	336.3	340.6	336.5
393.0	7804	-15.1	-35.1	16	0.49	275	19	337.0	338.9	337.1
363.0	8400	-19.7	-29.7	41	0.90	275	21	338.6	342.1	338.7
359.0	8482	-20.1	-39.1	17	0.36	275	21	339.1	340.6	339.2
342.1	8839	-22.4	-47.0	9	0.16	275	22	340.7	341.4	340.8
341.0	8863	-22.5	-47.5	8	0.15	274	22	340.9	341.5	340.9
338.0	8928	-22.9	-47.9	8	0.15	272	22	341.2	341.8	341.2
328.1	9144	-24.8	-48.3	9	0.15	265	21	341.4	342.1	341.5
314.5	9449	-27.5	-48.9	11	0.14	250	24	341.8	342.4	341.8
306.0	9649	-29.3	-49.3	13	0.14	256	24	342.0	342.6	342.1
300.0	9790	-30.1	-53.1	9	0.09	260	24	342.8	343.2	342.9
264.5	10668	-36.9	-59.2	8	0.05	260	27	345.5	345.7	345.5
250.0	11060	-39.9	-61.9	8	0.04	260	24	346.6	346.8	346.6
231.1	11582	-44.4	-63.8	10	0.03	265	26	347.6	347.7	347.6
203.0	12444	-51.9	-66.9	15	0.02	261	24	348.9	349.0	348.9
200.0	12540	-52.7	-65.7	19	0.03	260	24	349.1	349.3	349.2
190.0	12869	-54.7	-62.7	36	0.04	256	20	351.1	351.3	351.1
174.4	13411	-58.7	-70.1	22	0.02	250	14	353.3	353.4	353.3
172.0	13499	-59.3	-71.3	20	0.01	253	14	353.6	353.7	353.6

156.0	14102	-64.9	-69.1	56	0.02	273	13	354.1	354.2	354.1
151.0	14300	-66.7	-71.1	54	0.02	279	13	354.3	354.4	354.3
150.3	14326	-66.7	-71.1	54	0.02	280	13	354.8	354.8	354.8
150.0	14340	-66.7	-71.1	54	0.02	270	13	355.0	355.1	355.0
135.7	14935	-69.5	-74.8	46	0.01	200	16	360.3	360.3	360.3
128.8	15240	-71.0	-76.7	43	0.01	210	22	363.0	363.1	363.0
122.4	15545	-72.5	-78.6	39	0.01	205	24	365.7	365.8	365.7
116.2	15850	-73.9	-80.5	36	0.01	230	21	368.4	368.5	368.4
110.4	16154	-75.4	-82.4	33	0.00	290	19	371.1	371.2	371.1
110.0	16176	-75.5	-82.5	33	0.00	265	12	371.4	371.4	371.4
104.8	16459	-74.9	-81.9	33	0.00	225	15	377.7	377.7	377.7
100.0	16730	-74.3	-81.3	33	0.01	260	20	383.9	383.9	383.9
99.4	16764	-74.0	-81.5	31	0.01	230	21	385.1	385.1	385.1
94.5	17069	-71.6	-83.5	16	0.00	260	20	395.6	395.6	395.6
89.8	17374	-69.1	-85.4	8	0.00	220	26	406.3	406.4	406.3
85.3	17678	-66.6	-87.3	4	0.00	255	19	417.3	417.3	417.3
84.0	17768	-65.9	-87.9	3	0.00	246	18	420.6	420.6	420.6
81.1	17983	-66.2	-87.7	4	0.00	225	17	424.1	424.2	424.1
78.9	18149	-66.5	-87.5	4	0.00	239	13	426.9	426.9	426.9
77.1	18288	-64.3	-87.6	3	0.00	250	10	434.2	434.2	434.2
73.5	18585	-59.7	-87.7	1	0.00	220	11	450.0	450.0	450.0
70.0	18890	-60.9	-88.9	1	0.00	190	12	453.8	453.8	453.8
69.9	18898	-60.9	-88.9	1	0.00	150	10	453.9	453.9	453.9
69.5	18934	-60.9	-88.9	1	0.00	155	10	454.7	454.7	454.7
66.6	19202	-60.0	-88.3	1	0.00	195	11	462.2	462.2	462.2
63.4	19507	-59.0	-87.7	1	0.00	80	16	470.9	471.0	470.9
61.3	19717	-58.3	-87.3	1	0.00	108	15	477.1	477.1	477.1
60.4	19812	-58.5	-87.6	1	0.00	120	14	478.8	478.8	478.8
57.5	20117	-59.0	-88.4	1	0.00	110	14	484.2	484.3	484.2
52.2	20726	-60.1	-90.1	1	0.00	90	12	495.5	495.5	495.5
52.2	20721	-60.1	-90.1	1	0.00	90	12	495.3	495.3	495.3
50.0	20990	-58.5	-88.5	1	0.00	110	15	505.2	505.2	505.2
49.7	21031	-58.1	-88.2	1	0.00	110	12	507.0	507.1	507.1
47.4	21336	-55.2	-86.4	1	0.00	110	17	521.0	521.0	521.0
45.6	21576	-52.9	-84.9	1	0.01	138	14	532.2	532.2	532.2
45.1	21641	-53.2	-85.1	1	0.01	145	13	533.0	533.1	533.0
43.0	21946	-54.6	-86.0	1	0.01	85	10	536.9	537.0	536.9
41.0	22250	-56.0	-86.8	1	0.01	60	18	540.8	540.8	540.8
39.1	22555	-57.4	-87.7	1	0.00	65	22	544.7	544.7	544.7
38.2	22703	-58.1	-88.1	1	0.00	100	17	546.6	546.6	546.6
35.5	23165	-56.6	-87.2	1	0.01	100	17	562.0	562.0	562.0
33.9	23470	-55.6	-86.6	1	0.01	75	19	572.3	572.4	572.3
32.3	23774	-54.6	-86.0	1	0.01	80	22	582.8	582.9	582.8
30.8	24079	-53.6	-85.4	1	0.01	65	24	593.5	593.6	593.5
30.0	24240	-53.1	-85.1	1	0.01	80	28	599.3	599.4	599.3
29.4	24384	-52.8	-84.9	1	0.01	85	29	603.9	604.0	603.9
25.5	25298	-50.9	-83.7	1	0.01	75	29	633.8	633.9	633.8
24.4	25603	-50.3	-83.3	1	0.02	100	33	644.1	644.3	644.1
23.2	25908	-49.7	-83.0	1	0.02	90	30	654.6	654.7	654.6
20.0	26890	-47.7	-81.7	1	0.03	90	32	689.4	689.7	689.4
19.3	27127	-46.7	-81.1	1	0.03	90	36	699.5	699.8	699.5
18.4	27432	-45.5	-80.3	1	0.03	90	30	712.7	713.1	712.7
18.2	27516	-45.1	-80.1	1	0.04			716.4	716.8	716.4

Station information and sounding indices

Station identifier: LMN

Station number: 74646

Observation time: 150726/0000

Station latitude: 36.62

Station longitude: -97.48
Station elevation: 317.0
Showalter index: -3.54
Lifted index: -4.83
LIFT computed using virtual temperature: -5.55
SWEAT index: 266.19
K index: 27.30
Cross totals index: 21.70
Vertical totals index: 27.70
Totals totals index: 49.40
Convective Available Potential Energy: 2449.33
CAPE using virtual temperature: 2636.78
Convective Inhibition: -101.92
CINS using virtual temperature: -29.90
Equilibrium Level: 133.01
Equilibrium Level using virtual temperature: 132.98
Level of Free Convection: 668.93
LFCT using virtual temperature: 724.18
Bulk Richardson Number: 56.13
Bulk Richardson Number using CAPV: 60.43
Temp [K] of the Lifted Condensation Level: 291.37
Pres [hPa] of the Lifted Condensation Level: 802.86
Mean mixed layer potential temperature: 310.24
Mean mixed layer mixing ratio: 16.74
1000 hPa to 500 hPa thickness: 5872.00
Precipitable water [mm] for entire sounding: 48.43

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)
