

74560 ILX Lincoln 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	108									
992.0	178	29.4	24.5	75	19.98	305	3	303.2	362.9	306.9
983.0	260	28.8	21.8	66	17.05	305	3	303.4	354.3	306.5
944.9	610	25.9	20.2	71	16.08	305	5	304.0	352.1	306.9
925.0	799	24.4	19.4	74	15.58	305	4	304.2	350.9	307.1
912.9	914	23.5	18.8	75	15.21	315	3	304.4	350.0	307.2
881.5	1219	21.0	17.2	79	14.25	340	4	304.9	347.7	307.5
867.0	1364	19.8	16.5	81	13.81	345	6	305.1	346.7	307.7
850.0	1535	19.2	14.8	76	12.61	350	9	306.2	344.4	308.6
821.4	1829	17.5	11.7	68	10.60	340	13	307.5	339.8	309.5
819.0	1854	17.4	11.4	68	10.44	338	13	307.6	339.5	309.5
808.0	1970	16.6	12.2	75	11.17	331	14	307.9	342.0	310.0
801.0	2044	17.0	10.0	63	9.71	326	14	309.1	339.0	310.9
792.6	2134	16.6	8.6	59	8.90	320	15	309.7	337.2	311.3
770.0	2380	15.6	4.6	48	6.95	328	13	311.1	333.0	312.4
764.8	2438	15.2	4.3	48	6.88	330	13	311.3	332.9	312.6
737.5	2743	12.8	3.0	51	6.49	330	16	312.0	332.5	313.2
717.0	2981	11.0	2.0	54	6.20	330	16	312.5	332.1	313.7
700.0	3181	10.4	-1.6	43	4.89	330	16	314.0	329.7	314.9
683.0	3385	9.0	0.0	53	5.63	341	18	314.6	332.7	315.7
664.0	3618	7.4	-5.6	39	3.81	353	20	315.4	327.9	316.1
660.8	3658	7.0	-5.7	40	3.79	355	20	315.4	327.9	316.1
636.6	3962	4.4	-6.8	44	3.63	350	23	315.8	327.7	316.5
619.0	4191	2.4	-7.6	48	3.51	350	22	316.0	327.6	316.7
613.2	4267	2.0	-9.5	42	3.05	350	22	316.4	326.5	317.0
611.0	4296	1.8	-10.2	41	2.90	350	22	316.5	326.2	317.1
594.0	4523	-0.3	-9.3	51	3.20	354	20	316.6	327.3	317.2
590.3	4572	-0.4	-10.4	47	2.94	355	20	317.1	326.9	317.6
587.0	4617	-0.5	-11.5	43	2.72	351	19	317.5	326.6	318.0
577.0	4755	-0.7	-11.7	43	2.72	340	17	318.8	328.0	319.3
568.2	4877	-1.1	-8.8	56	3.47	330	15	319.7	331.3	320.4
561.0	4979	-1.5	-6.4	69	4.25	325	15	320.4	334.6	321.2
546.9	5182	-2.7	-7.2	71	4.09	315	14	321.4	335.1	322.2
537.0	5327	-3.5	-7.8	72	3.98	322	13	322.1	335.4	322.9
512.0	5703	-4.1	-10.1	63	3.48	341	11	325.8	337.7	326.4
506.3	5791	-4.8	-10.8	63	3.34	345	11	326.0	337.5	326.7
500.0	5890	-5.5	-11.5	63	3.19	325	10	326.3	337.3	326.9
488.0	6080	-6.3	-13.3	58	2.83	274	14	327.6	337.4	328.1
487.0	6096	-6.4	-13.3	58	2.83	270	14	327.6	337.5	328.2
452.0	6675	-10.1	-13.7	75	2.95	286	23	330.0	340.4	330.6
442.0	6847	-10.1	-16.1	61	2.48	291	26	332.2	341.0	332.7
435.0	6970	-9.9	-21.9	37	1.53	294	28	333.9	339.6	334.2
432.7	7010	-10.2	-22.2	37	1.50	295	29	334.0	339.6	334.3
400.0	7610	-14.9	-26.9	35	1.06	310	25	335.5	339.6	335.8
399.5	7620	-15.0	-27.0	35	1.06	310	25	335.6	339.6	335.8
383.6	7925	-17.4	-29.4	34	0.88	310	23	336.3	339.6	336.5
383.0	7937	-17.5	-29.5	34	0.87	310	24	336.3	339.6	336.5
360.0	8397	-21.5	-29.5	48	0.93	302	45	336.9	340.5	337.1
353.4	8534	-22.3	-30.3	48	0.87	300	51	337.6	341.0	337.8
349.0	8626	-22.9	-30.9	48	0.84	298	50	338.1	341.3	338.2
337.0	8881	-24.3	-29.3	63	1.01	291	48	339.6	343.4	339.8
325.0	9144	-25.8	-32.0	56	0.81	285	45	341.0	344.1	341.1
317.0	9325	-26.9	-33.9	52	0.69	282	43	341.9	344.7	342.1

311.6	9449	-28.0	-34.4	54	0.67	280	41	342.0	344.7	342.2
300.0	9720	-30.5	-35.5	62	0.62	280	41	342.3	344.8	342.4
286.0	10058	-33.3	-38.3	61	0.49	283	41	343.0	345.0	343.1
275.0	10333	-35.3	-46.3	32	0.22	285	41	343.9	344.9	344.0
267.0	10538	-36.9	-50.9	22	0.13	286	42	344.5	345.1	344.6
250.6	10973	-40.8	-52.8	26	0.11	290	42	345.1	345.6	345.1
250.0	10990	-40.9	-52.9	26	0.11	290	41	345.1	345.6	345.1
229.0	11578	-46.3	-53.3	45	0.12	280	40	345.7	346.2	345.7
228.9	11582	-46.3	-53.3	45	0.12	280	40	345.7	346.2	345.7
214.0	12023	-50.1	-58.1	38	0.07	287	49	346.5	346.8	346.5
200.0	12460	-53.3	-61.3	37	0.05	295	58	348.2	348.4	348.2
198.8	12497	-53.6	-61.9	36	0.05	295	60	348.3	348.5	348.3
196.0	12590	-54.4	-63.2	33	0.04	295	60	348.4	348.6	348.4
195.0	12623	-54.7	-63.7	32	0.04	295	60	348.5	348.7	348.5
186.0	12925	-55.7	-67.7	21	0.02	292	59	351.6	351.7	351.6
154.0	14100	-65.7	-76.7	20	0.01	281	54	354.0	354.1	354.0
150.0	14260	-66.5	-77.5	20	0.01	280	53	355.3	355.4	355.3
148.4	14326	-66.9	-77.7	21	0.01	285	54	355.7	355.8	355.7
143.0	14548	-68.3	-78.3	23	0.01	286	50	357.1	357.1	357.1
133.0	14981	-69.5	-79.5	22	0.01	289	42	362.4	362.4	362.4
128.0	15208	-71.3	-81.3	21	0.00	290	38	363.2	363.2	363.2
127.3	15240	-71.0	-81.0	22	0.00	290	37	364.2	364.2	364.2
126.0	15302	-70.5	-80.5	22	0.00	289	35	366.3	366.3	366.3
121.0	15541	-72.3	-82.3	21	0.00	285	27	367.2	367.2	367.2
120.9	15545	-72.3	-82.3	21	0.00	285	27	367.3	367.3	367.3
115.0	15839	-73.1	-82.1	24	0.00	285	29	371.1	371.1	371.1
114.0	15890	-71.5	-81.5	21	0.00	284	32	375.0	375.1	375.0
111.0	16048	-70.5	-81.5	18	0.00	282	40	379.8	379.8	379.8
109.0	16154	-70.7	-81.3	20	0.00	280	46	381.3	381.3	381.3
106.0	16321	-71.1	-81.1	22	0.01	285	39	383.7	383.7	383.7
103.0	16492	-68.9	-79.9	19	0.01	290	32	391.0	391.1	391.0
102.0	16550	-66.9	-78.9	17	0.01	292	29	396.0	396.0	396.0
100.0	16670	-66.5	-78.5	17	0.01	295	24	399.0	399.0	399.0
92.7	17133	-63.7	-76.7	15	0.01	307	15	413.2	413.3	413.2
91.0	17247	-61.5	-75.5	14	0.01	309	13	419.8	419.9	419.8
84.9	17678	-63.0	-77.0	13	0.01	320	4	425.2	425.3	425.2
84.5	17705	-63.1	-77.1	13	0.01	318	4	425.5	425.6	425.5
80.2	18028	-61.9	-77.9	10	0.01	297	8	434.4	434.5	434.4
76.9	18288	-62.1	-78.7	9	0.01	280	11	439.3	439.3	439.3
70.0	18870	-62.5	-80.5	7	0.01	115	9	450.3	450.4	450.3
69.1	18950	-62.5	-80.5	7	0.01	117	8	452.0	452.1	452.0
64.7	19359	-59.1	-80.1	5	0.01	125	6	468.0	468.1	468.0
57.3	20117	-58.4	-82.1	3	0.01	140	1	486.0	486.0	486.0
54.0	20494	-58.1	-83.1	3	0.01	101	4	495.1	495.2	495.1
50.0	20980	-56.3				50	7	510.4		510.4
49.6	21031	-56.1				30	10	511.9		511.9
47.3	21336	-55.3				65	18	521.0		521.0
46.3	21469	-54.9				65	18	525.1		525.1
45.1	21641	-55.1				65	18	528.6		528.6
43.0	21946	-55.6				95	19	534.8		534.8
40.4	22337	-56.1				76	20	542.9		542.9
39.0	22555	-55.3				65	21	550.2		550.2
37.2	22860	-54.2				90	27	560.5		560.5
33.9	23470	-52.1				85	22	581.6		581.6
33.9	23460	-52.1				85	22	581.3		581.3
30.0	24250	-52.3				90	24	601.5		601.5
29.4	24384	-52.2				95	23	605.3		605.3
28.6	24560	-52.1				86	21	610.3		610.3
28.0	24689	-51.5				80	19	615.3		615.3
25.6	25298	-48.9				95	23	639.4		639.4
24.4	25603	-47.5				65	25	651.8		651.8

23.7	25793	-46.7	73	25	659.7	659.7
21.2	26518	-46.8	105	26	680.2	680.2
20.0	26920	-46.9	95	18	691.8	691.8
18.5	27432	-46.4	75	27	708.6	708.6
16.1	28346	-45.6	95	30	739.6	739.6
14.7	28956	-45.0	105	20	761.1	761.1
14.1	29261	-44.8	80	21	772.0	772.0
12.2	30217	-43.9	80	34	807.4	807.4
11.7	30480	-42.4	80	37	821.8	821.8
11.3	30735	-40.9	80	39	836.0	836.0
10.0	31570	-38.9	80	47	873.2	873.2
9.8	31699	-38.7	80	49	878.5	878.5
9.3	32068	-38.3			893.8	893.8
8.6	32611	-33.7			931.9	931.9

Station information and sounding indices

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Station identifier: ILX
Station number: 74560
Observation time: 150726/0000
Station latitude: 40.15
Station longitude: -89.33
Station elevation: 178.0
Showalter index: -0.35
Lifted index: -3.75
LIFT computed using virtual temperature: -4.34
SWEAT index: 205.59
K index: 27.50
Cross totals index: 20.30
Vertical totals index: 24.70
Totals totals index: 45.00
Convective Available Potential Energy: 1434.67
CAPE using virtual temperature: 1630.69
Convective Inhibition: -27.64
CINS using virtual temperature: -12.08
Equilibrium Level: 161.72
Equilibrium Level using virtual temperature: 160.70
Level of Free Convection: 811.18
LFCT using virtual temperature: 845.57
Bulk Richardson Number: 137.68
Bulk Richardson Number using CAPV: 156.49
Temp [K] of the Lifted Condensation Level: 292.93
Pres [hPa] of the Lifted Condensation Level: 881.63
Mean mixed layer potential temperature: 303.68
Mean mixed layer mixing ratio: 16.81
1000 hPa to 500 hPa thickness: 5782.00
Precipitable water [mm] for entire sounding: 46.19

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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)
