

72562 LBF North Platte 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	68									
925.0	760									
916.0	849	30.8	20.8	55	17.20	160	9	311.7	364.8	314.9
903.0	976	28.4	18.4	55	14.98	160	10	310.5	356.5	313.3
878.4	1219	25.9	17.3	59	14.36	160	13	310.4	354.5	313.0
850.0	1507	23.0	16.0	65	13.64	160	16	310.2	352.1	312.8
820.0	1820	20.4	15.5	73	13.69	209	11	310.7	352.8	313.2
819.1	1829	20.3	15.4	74	13.66	210	11	310.7	352.8	313.2
794.0	2098	18.4	14.1	76	12.90	245	10	311.4	351.3	313.8
790.7	2134	18.3	13.6	74	12.54	250	10	311.7	350.5	314.0
780.0	2251	18.0	12.0	68	11.42	263	10	312.6	348.1	314.7
769.0	2373	18.6	5.6	42	7.47	277	11	314.5	338.2	315.9
763.2	2438	18.7	4.0	38	6.71	285	11	315.3	336.8	316.6
759.0	2485	18.8	2.8	34	6.21	290	11	315.9	335.8	317.1
739.0	2713	17.6	-1.4	27	4.70	312	11	317.0	332.4	317.9
736.4	2743	17.3	-1.4	28	4.71	315	11	317.0	332.4	317.9
723.0	2900	15.6	-1.4	31	4.80	326	12	316.8	332.5	317.7
708.0	3077	15.0	-6.0	23	3.47	338	14	318.0	329.6	318.7
700.0	3173	14.2	-5.8	25	3.56	345	15	318.2	330.0	318.9
660.1	3658	9.9	-7.5	29	3.32	350	12	318.7	329.8	319.3
613.3	4267	4.4	-9.6	35	3.03	325	7	319.2	329.4	319.8
600.0	4449	2.8	-10.2	38	2.95	313	5	319.3	329.3	319.9
594.0	4530	2.2	-9.8	41	3.07	308	4	319.5	329.9	320.1
590.9	4572	1.9	-8.0	48	3.57	305	3	319.6	331.5	320.3
587.0	4626	1.4	-5.6	60	4.31	301	4	319.7	334.0	320.5
568.9	4877	-0.6	-6.9	63	4.04	285	11	320.2	333.6	321.0
563.0	4961	-1.3	-7.3	64	3.95	281	15	320.3	333.5	321.1
552.0	5119	-1.7	-7.7	64	3.90	273	21	321.7	334.8	322.4
547.6	5182	-2.2	-8.2	63	3.79	270	24	321.9	334.6	322.6
537.0	5338	-3.3	-9.3	63	3.54	271	26	322.3	334.3	323.0
533.0	5397	-3.7	-11.7	54	2.94	271	27	322.5	332.6	323.1
516.0	5653	-5.9	-16.9	42	1.98	273	31	322.9	329.8	323.2
512.0	5714	-5.5	-28.5	14	0.72	274	32	324.1	326.7	324.2
505.0	5822	-5.1	-44.1	3	0.15	274	34	325.8	326.4	325.9
500.0	5900	-5.3	-45.3	3	0.13	275	35	326.5	327.1	326.5
487.6	6096	-6.1	-46.1	3	0.13	275	36	327.9	328.4	327.9
482.0	6187	-6.5	-46.5	3	0.12	275	36	328.5	329.0	328.5
425.0	7153	-14.5	-47.5	4	0.12	272	41	330.3	330.8	330.3
414.0	7351	-15.1	-55.1	2	0.05	271	42	332.0	332.2	332.0
400.0	7610	-17.1	-50.1	4	0.10	270	43	332.7	333.1	332.7
399.5	7620	-17.2	-50.1	4	0.10	270	43	332.7	333.1	332.7
342.0	8762	-25.3	-54.3	5	0.07	266	50	336.8	337.1	336.8
324.3	9144	-27.2	-58.0	4	0.05	265	53	339.3	339.6	339.4
314.0	9376	-28.3	-60.3	3	0.04	263	54	340.9	341.1	340.9
300.0	9700	-30.7	-57.7	5	0.05	260	56	342.0	342.2	342.0
291.0	9916	-32.1	-58.1	6	0.05	257	57	343.0	343.2	343.0
285.1	10058	-33.3	-58.4	6	0.05	255	58	343.2	343.5	343.2
250.0	10970	-41.3	-60.3	11	0.05	255	58	344.5	344.7	344.5
242.0	11190	-43.3	-61.3	12	0.04	256	58	344.7	344.9	344.8
229.0	11560	-44.7	-68.7	5	0.02	257	58	348.1	348.2	348.1
204.0	12322	-51.5	-70.5	9	0.01	260	58	349.1	349.1	349.1
200.0	12450	-52.3	-71.3	8	0.01	260	58	349.8	349.9	349.8
180.2	13106	-57.4	-74.0	10	0.01	265	55	352.0	352.0	352.0

162.0	13779	-62.7	-76.7	14	0.01	253	53	354.0	354.0	354.0
150.0	14250	-65.1	-74.1	28	0.01	245	52	357.7	357.8	357.7
148.1	14326	-65.6	-74.8	27	0.01	245	49	358.2	358.3	358.2
140.8	14630	-67.5	-77.4	23	0.01	260	44	360.1	360.1	360.1
130.0	15110	-70.5	-81.5	18	0.00	250	46	363.0	363.0	363.0
127.2	15240	-70.0	-81.7	16	0.00	250	52	366.3	366.3	366.3
123.0	15439	-69.1	-82.1	14	0.00	260	45	371.3	371.4	371.3
120.8	15545	-69.3	-82.3	14	0.00	265	41	372.9	372.9	372.9
118.0	15686	-69.5	-82.5	14	0.00	260	37	375.0	375.1	375.0
114.8	15850	-70.3	-83.3	13	0.00	255	32	376.6	376.6	376.6
113.0	15943	-70.7	-83.7	13	0.00	257	32	377.5	377.5	377.5
112.0	15996	-69.7	-82.7	14	0.00	259	31	380.3	380.3	380.3
107.0	16268	-70.5	-82.5	16	0.00	265	30	383.8	383.8	383.8
105.0	16380	-69.7	-82.7	14	0.00	268	29	387.4	387.4	387.4
103.0	16494	-70.3	-82.3	16	0.00	271	29	388.4	388.4	388.4
102.0	16552	-70.1	-82.1	16	0.00	272	29	389.8	389.8	389.8
101.0	16610	-68.7	-81.7	14	0.01	274	28	393.6	393.6	393.6
100.0	16670	-68.7	-82.7	12	0.00	275	28	394.7	394.8	394.7
97.4	16828	-69.1	-83.1	12	0.00	271	27	396.9	397.0	396.9
91.4	17213	-64.5	-81.5	8	0.01	261	25	413.3	413.4	413.3
84.7	17678	-64.3	-82.4	7	0.01	250	23	422.8	422.9	422.8
80.6	17983	-64.1	-83.0	6	0.01	265	15	429.2	429.2	429.2
80.0	18030	-64.1	-83.1	6	0.01	282	13	430.2	430.2	430.2
77.0	18266	-61.1	-84.1	3	0.00	7	2	441.1	441.2	441.1
76.7	18288	-61.1	-84.2	3	0.00	15	1	441.6	441.7	441.6
70.3	18833	-60.5	-87.5	2	0.00	304	8	454.1	454.1	454.1
70.0	18860	-60.1	-88.1	1	0.00	300	8	455.5	455.5	455.5
68.5	18995	-58.9	-87.9	1	0.00	320	9	460.9	460.9	460.9
66.3	19202	-59.5	-88.5	1	0.00	350	11	463.9	463.9	463.9
64.2	19400	-60.1	-89.1	1	0.00	29	13	466.9	466.9	466.9
61.5	19668	-58.3	-88.3	1	0.00	82	16	476.6	476.6	476.6
60.1	19812	-59.1	-88.5	1	0.00	110	17	478.0	478.0	478.0
59.1	19917	-59.7	-88.7	1	0.00	93	11	478.9	478.9	478.9
57.2	20117	-58.8	-88.3	1	0.00	60	1	485.4	485.4	485.4
52.9	20613	-56.5	-87.5	1	0.00	97	10	501.8	501.8	501.8
52.0	20726	-56.3	-87.6	1	0.00	105	12	504.8	504.8	504.8
50.0	20970	-55.9	-87.9	1	0.00	100	10	511.3	511.3	511.3
49.5	21031	-56.0	-87.8	1	0.00	115	14	512.6	512.6	512.6
47.2	21336	-56.2	-87.5	1	0.00	165	11	519.1	519.1	519.1
46.1	21486	-56.3	-87.3	1	0.00	153	9	522.4	522.4	522.4
42.9	21946	-54.2	-86.3	1	0.01	115	2	538.2	538.3	538.2
40.9	22250	-52.9	-85.7	1	0.01	110	10	549.0	549.0	549.0
40.4	22332	-52.5	-85.5	1	0.01	107	12	551.9	552.0	551.9
37.2	22860	-51.9	-84.9	1	0.01	90	21	566.6	566.6	566.6
35.5	23165	-51.5	-84.5	1	0.01	120	9	575.2	575.3	575.2
34.7	23318	-51.3	-84.3	1	0.01	105	13	579.6	579.7	579.6
33.9	23470	-51.8	-84.5	1	0.01	90	17	582.3	582.4	582.3
32.3	23774	-52.6	-84.8	1	0.01	80	17	587.8	587.9	587.8
31.9	23863	-52.9	-84.9	1	0.01	83	17	589.4	589.5	589.4
30.9	24079	-52.2	-84.8	1	0.01	90	18	596.8	596.9	596.8
30.0	24260	-51.7	-84.7	1	0.01	80	17	603.1	603.2	603.1
29.4	24384	-51.3	-84.5	1	0.01	80	18	607.4	607.5	607.4
25.9	25222	-48.9	-82.9	1	0.02	71	27	636.9	637.1	636.9
25.6	25298	-49.0	-82.9	1	0.02	70	28	638.7	638.8	638.7
24.4	25603	-49.5	-82.9	1	0.02	85	31	645.8	646.0	645.8
23.5	25861	-49.9	-82.9	1	0.02	93	27	651.9	652.1	651.9
22.3	26213	-49.6	-82.6	1	0.02	105	22	662.8	663.0	662.8
21.3	26518	-49.4	-82.4	1	0.02	85	28	672.3	672.5	672.3
20.0	26920	-49.1	-82.1	1	0.02	85	25	685.1	685.4	685.1
19.4	27127	-48.9	-82.3	1	0.02	80	26	692.1	692.3	692.1
18.5	27432	-48.5	-82.5	1	0.02	95	34	702.5	702.7	702.5

18.5	27431	-48.5	-82.5	1	0.02	95	34	702.4	702.7	702.4
17.7	27737	-47.0	-81.5	1	0.03	100	28	716.5	716.8	716.5
15.6	28564	-42.9	-78.9	1	0.05	83	28	755.9	756.5	755.9
14.7	28956	-43.1	-79.2	1	0.05	75	28	767.8	768.4	767.8
14.2	29196	-43.3	-79.3	1	0.05	85	26	775.1	775.7	775.1
13.6	29487	-41.3	-78.3	1	0.06	97	23	791.6	792.3	791.6
13.4	29566	-41.4	-78.3	1	0.07	100	22	793.9	794.7	794.0
11.7	30504	-42.3	-78.3	1	0.07	85	21	822.8	823.7	822.8
11.7	30480	-42.3	-78.3	1	0.07	85	21	822.0	822.9	822.0
10.0	31570	-39.3	-76.3	1	0.12	95	26	871.7	873.2	871.8
9.4	31995	-37.9	-75.9	1	0.14	93	29	892.6	894.3	892.6
8.3	32854	-37.7	-75.7	1	0.16	88	34	925.6	927.8	925.7
7.5	33558	-34.9	-73.9	1	0.23	85	38	964.2	967.4	964.3
7.5	33528	-35.0	-74.0	1	0.23	85	38	962.5	965.6	962.6
7.0	34040	-34.9	-73.9	1	0.25	85	36	983.4	986.9	983.5
6.0	35113	-35.9	-73.9	1	0.29			1023.3	1027.6	1023.5
6.0	35052	-35.8	-73.9	1	0.28	70	40	1021.0	1025.2	1021.2

Station information and sounding indices

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Station identifier: LBF
Station number: 72562
Observation time: 150726/0000
Station latitude: 41.13
Station longitude: -100.68
Station elevation: 849.0
Showalter index: -2.98
Lifted index: -4.39
LIFT computed using virtual temperature: -5.55
SWEAT index: 409.30
K index: 24.30
Cross totals index: 21.30
Vertical totals index: 28.30
Totals totals index: 49.60
Convective Available Potential Energy: 1906.43
CAPE using virtual temperature: 2110.34
Convective Inhibition: -119.06
CINS using virtual temperature: -54.01
Equilibrium Level: 155.41
Equilibrium Level using virtual temperature: 155.34
Level of Free Convection: 661.56
LFCT using virtual temperature: 690.21
Bulk Richardson Number: 39.65
Bulk Richardson Number using CAPV: 43.89
Temp [K] of the Lifted Condensation Level: 289.10
Pres [hPa] of the Lifted Condensation Level: 778.34
Mean mixed layer potential temperature: 310.57
Mean mixed layer mixing ratio: 14.91
1000 hPa to 500 hPa thickness: 5832.00
Precipitable water [mm] for entire sounding: 30.56

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