

72681 BOI Boise Observations at 00Z 25 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	85									
925.0	777									
915.0	874	31.4	5.4	20	6.18	300	6	312.4	332.0	313.5
906.0	962	28.6	3.6	20	5.50	304	7	310.4	327.8	311.4
903.0	991	28.2	3.2	20	5.36	305	7	310.3	327.2	311.3
879.9	1219	26.2	2.5	21	5.24	315	10	310.5	327.2	311.5
850.0	1522	23.6	1.6	24	5.08	290	9	310.9	327.0	311.8
820.2	1829	20.6	0.3	26	4.80	305	9	310.9	326.2	311.8
791.6	2134	17.7	-0.9	28	4.54	275	8	310.9	325.5	311.8
781.0	2251	16.6	-1.4	29	4.44	266	11	310.9	325.2	311.8
763.9	2438	15.4	-4.3	25	3.66	250	16	311.6	323.5	312.3
761.0	2470	15.2	-4.8	25	3.53	251	16	311.8	323.2	312.4
736.6	2743	12.7	-5.7	27	3.40	260	18	311.9	323.0	312.6
700.0	3169	8.8	-7.2	32	3.20	265	19	312.2	322.6	312.8
659.3	3658	4.4	-8.3	39	3.11	260	18	312.6	322.8	313.2
628.0	4055	0.8	-9.2	47	3.05	260	20	312.9	322.9	313.5
611.5	4267	-0.9	-10.9	47	2.74	260	21	313.4	322.4	313.9
577.0	4729	-4.5	-14.5	46	2.17	241	19	314.4	321.6	314.8
566.2	4877	-5.8	-15.1	48	2.10	235	19	314.5	321.6	314.9
548.0	5133	-8.1	-16.1	53	2.00	233	23	314.8	321.5	315.1
529.0	5407	-9.9	-17.9	52	1.78	231	27	315.8	321.9	316.1
523.6	5486	-10.3	-24.6	30	1.00	230	28	316.3	319.8	316.5
523.0	5495	-10.3	-25.3	28	0.94	230	28	316.3	319.7	316.5
511.0	5673	-11.3	-26.3	28	0.88	233	26	317.2	320.4	317.4
500.0	5840	-12.5	-34.5	14	0.41	235	24	317.7	319.3	317.8
491.0	5979	-12.3	-40.3	8	0.23	238	23	319.6	320.5	319.7
483.4	6096	-13.3	-39.1	10	0.27	240	22	319.8	320.8	319.8
464.3	6401	-16.0	-35.9	16	0.39	245	22	320.1	321.6	320.2
446.0	6704	-18.7	-32.7	28	0.55	225	22	320.5	322.5	320.6
445.9	6706	-18.7	-32.8	28	0.54	225	22	320.5	322.5	320.6
429.0	6993	-19.3	-49.3	5	0.10	234	21	323.3	323.7	323.3
411.0	7310	-20.9	-50.9	5	0.09	245	19	325.2	325.6	325.2
410.7	7315	-20.9	-50.7	5	0.09	245	19	325.2	325.6	325.2
400.0	7510	-22.7	-43.7	13	0.20	280	18	325.4	326.2	325.4
394.0	7620	-23.7	-43.9	14	0.20	280	17	325.5	326.3	325.5
386.0	7769	-25.1	-44.1	15	0.20	280	17	325.6	326.4	325.6
377.0	7940	-25.9	-49.9	9	0.11	280	17	326.7	327.2	326.8
372.0	8036	-26.1	-42.1	21	0.25	280	17	327.7	328.7	327.8
365.0	8173	-26.9	-45.9	15	0.17	280	17	328.4	329.1	328.5
358.0	8312	-27.5	-41.5	25	0.28	280	17	329.4	330.6	329.5
317.9	9144	-35.3	-45.1	36	0.22	280	18	330.0	330.8	330.0
302.0	9505	-38.7	-46.7	43	0.19	280	18	330.1	330.9	330.1
300.0	9550	-38.9	-46.9	43	0.19	280	18	330.4	331.2	330.5
297.0	9619	-39.3	-48.3	38	0.16	279	18	330.8	331.5	330.8
290.0	9782	-39.5	-53.5	21	0.09	278	19	332.8	333.2	332.8
261.0	10494	-45.3	-60.3	17	0.04	272	21	334.4	334.6	334.4
250.0	10780	-46.9	-63.9	13	0.03	270	22	336.2	336.3	336.2
238.0	11106	-49.3	-66.3	12	0.02	270	19	337.4	337.4	337.4
231.8	11278	-50.0	-67.8	11	0.02	270	18	338.8	338.9	338.8
202.0	12176	-53.7	-75.7	5	0.01	260	33	346.6	346.6	346.6
201.5	12192	-53.5	-75.8	5	0.01	260	33	347.1	347.1	347.1
200.0	12240	-53.1	-76.1	4	0.01	250	31	348.5	348.6	348.5
197.0	12337	-51.5	-76.5	3	0.01	242	31	352.6	352.6	352.6

192.2	12497	-52.9	-79.4	3	0.00	230	32	352.8	352.8	352.8
187.0	12672	-54.5	-82.5	2	0.00	231	34	353.0	353.0	353.0
181.0	12880	-55.1	-83.1	2	0.00	233	36	355.3	355.4	355.3
173.0	13168	-53.9	-83.9	1	0.00	235	40	361.9	361.9	361.9
162.0	13586	-55.9	-87.9	1	0.00	238	44	365.4	365.4	365.4
154.0	13905	-58.3	-89.3	1	0.00	240	48	366.7	366.7	366.7
151.2	14021	-58.3	-88.6	1	0.00	240	49	368.6	368.6	368.6
150.0	14070	-58.3	-88.3	1	0.00	245	45	369.4	369.4	369.4
144.0	14326	-58.5	-89.0	1	0.00	235	35	373.4	373.4	373.4
138.0	14595	-58.7	-89.7	1	0.00	233	36	377.6	377.6	377.6
130.7	14935	-60.1	-91.2	1	0.00	230	37	380.9	380.9	380.9
130.0	14970	-60.3	-91.3	1	0.00	231	38	381.3	381.3	381.3
124.5	15240	-58.9	-90.4	1	0.00	240	43	388.4	388.5	388.4
119.0	15526	-57.5	-89.5	1	0.00	240	45	396.2	396.2	396.2
115.0	15742	-58.5	-89.5	1	0.00	240	46	398.2	398.2	398.2
113.0	15850	-58.5	-89.5	1	0.00	240	47	400.2	400.2	400.2
107.0	16196	-58.5	-89.5	1	0.00	247	38	406.5	406.5	406.5
100.0	16620	-60.5	-91.5	1	0.00	255	26	410.6	410.6	410.6
93.0	17069	-60.5	-91.5	1	0.00	225	15	419.1	419.1	419.1
88.6	17374	-60.5	-91.5	1	0.00	255	29	425.0	425.0	425.0
87.7	17437	-60.5	-91.5	1	0.00	258	27	426.2	426.3	426.2
84.5	17670	-58.3	-89.3	1	0.00	270	19	435.3	435.3	435.3
84.4	17678	-58.3	-89.3	1	0.00	270	19	435.4	435.4	435.4
81.3	17912	-59.1	-90.1	1	0.00	247	14	438.4	438.5	438.4
80.4	17983	-57.1	-89.1	1	0.00	240	13	444.0	444.0	444.0
80.4	17982	-57.1	-89.1	1	0.00	240	13	443.9	444.0	443.9
77.7	18198	-58.1	-90.1	1	0.00	251	11	446.2	446.2	446.2
76.6	18288	-57.1	-89.1	1	0.00	255	10	450.1	450.1	450.1
74.4	18473	-55.1	-87.1	1	0.00	222	10	458.1	458.1	458.1
73.0	18593	-55.8	-87.8	1	0.00	200	10	459.1	459.2	459.1
70.0	18860	-57.3	-89.3	1	0.00	215	18	461.4	461.5	461.4
69.6	18898	-57.3	-89.3	1	0.00	235	21	462.2	462.3	462.2
69.2	18933	-57.3	-89.3	1	0.00	241	20	463.0	463.0	463.0
66.3	19202	-56.9	-88.9	1	0.00	290	10	469.5	469.5	469.5
63.2	19507	-56.4	-88.4	1	0.00	200	3	477.0	477.0	477.0
52.8	20650	-54.7	-86.7	1	0.00	139	10	506.2	506.2	506.2
52.2	20726	-54.2	-86.4	1	0.00	135	10	509.1	509.1	509.1
50.0	21000	-52.3	-85.3	1	0.01	90	6	519.8	519.8	519.8
47.5	21336	-52.2	-85.2	1	0.01	120	10	527.8	527.9	527.8
39.3	22555	-51.8	-84.8	1	0.01	135	13	558.1	558.1	558.1
38.2	22742	-51.7	-84.7	1	0.01	133	13	562.9	562.9	562.9
35.2	23271	-52.9	-85.9	1	0.01	126	12	573.0	573.1	573.0
32.6	23774	-51.2	-84.6	1	0.01	120	11	590.5	590.6	590.5
31.1	24079	-50.1	-83.9	1	0.01	90	4	601.3	601.4	601.3
30.0	24310	-49.3	-83.3	1	0.01	75	7	609.6	609.8	609.6
29.7	24384	-49.0	-83.1	1	0.01	55	10	612.5	612.6	612.5
28.3	24689	-47.6	-82.5	1	0.02	70	17	624.3	624.5	624.3
28.0	24765	-47.3	-82.3	1	0.02	68	19	627.3	627.5	627.3
27.0	24994	-47.5	-82.4	1	0.02	60	24	633.0	633.1	633.0
25.8	25298	-47.8	-82.4	1	0.02	60	15	640.6	640.8	640.6
24.7	25603	-48.1	-82.5	1	0.02	100	36	648.3	648.5	648.3
23.6	25908	-48.3	-82.6	1	0.02	115	29	656.1	656.3	656.1
22.5	26213	-48.6	-82.7	1	0.02	105	21	664.0	664.2	664.0
22.2	26297	-48.7	-82.7	1	0.02	101	22	666.2	666.4	666.2
21.5	26518	-47.4	-81.8	1	0.02	90	23	676.3	676.6	676.3
20.4	26858	-45.5	-80.5	1	0.03	97	30	692.2	692.5	692.2
20.0	26990	-45.5	-80.5	1	0.03	100	33	696.1	696.5	696.1
19.6	27127	-45.7	-80.7	1	0.03	100	33	699.5	699.8	699.5
19.0	27331	-46.1	-81.1	1	0.03	103	25	704.5	704.9	704.5
18.7	27432	-45.4	-80.7	1	0.03	105	21	709.9	710.2	709.9
18.0	27692	-43.5	-79.5	1	0.04	84	19	723.7	724.1	723.7

17.9	27737	-43.3	-79.4	1	0.04	80	19	725.6	726.0	725.6
16.3	28346	-41.2	-77.8	1	0.06	90	17	751.3	751.9	751.3
15.3	28792	-39.7	-76.7	1	0.07	72	22	770.6	771.5	770.7
14.9	28956	-39.8	-76.8	1	0.07	65	24	775.7	776.5	775.7
14.3	29261	-39.9	-76.9	1	0.08	90	28	785.2	786.1	785.2
13.1	29870	-40.2	-77.2	1	0.08	80	30	804.5	805.5	804.5
12.7	30061	-40.3	-77.3	1	0.08	82	30	810.7	811.6	810.7
12.0	30448	-39.1	-76.1	1	0.10	85	30	828.2	829.4	828.2
11.9	30480	-39.2	-76.2	1	0.10	85	30	828.8	830.0	828.8
11.4	30785	-40.6	-77.6	1	0.09	90	29	834.6	835.7	834.7
11.3	30858	-40.9	-77.9	1	0.08	85	29	836.0	837.0	836.1
10.9	31090	-40.6	-77.6	1	0.09	70	28	845.4	846.5	845.5
10.4	31394	-40.1	-77.1	1	0.10	85	24	857.9	859.2	857.9
10.0	31690	-39.7	-76.7	1	0.11	75	25	870.2	871.6	870.3
9.9	31759	-39.9	-76.9	1	0.11	75	27	872.0	873.4	872.0
9.4	32114	-37.9	-75.9	1	0.14	75	35	892.6	894.3	892.6
9.1	32309	-37.4	-75.5	1	0.15	75	40	901.6	903.5	901.6
8.8	32614	-36.7	-74.9	1	0.17	85	28	915.8	918.1	915.9
7.7	33528	-34.4	-73.2	1	0.25	105	38	959.9	963.4	960.0
7.3	33833	-33.7	-72.5	1	0.29	80	32	975.0	979.0	975.2
7.1	34066	-33.1	-72.1	1	0.32			986.8	991.3	987.0

Station information and sounding indices

```

Station identifier: BOI
Station number: 72681
Observation time: 150725/0000
Station latitude: 43.56
Station longitude: -116.21
Station elevation: 874.0
Showalter index: 0.29
Lifted index: -0.03
LIFT computed using virtual temperature: -0.43
SWEAT index: 85.20
K index: 21.70
Cross totals index: 14.10
Vertical totals index: 36.10
Totals totals index: 50.20
Convective Available Potential Energy: 2.66
CAPE using virtual temperature: 14.08
Convective Inhibition: -141.44
CINS using virtual temperature: -104.02
Equilibrium Level: 444.41
Equilibrium Level using virtual temperature: 441.86
Level of Free Convection: 552.23
LFCT using virtual temperature: 560.72
Bulk Richardson Number: 0.12
Bulk Richardson Number using CAPV: 0.64
Temp [K] of the Lifted Condensation Level: 271.17
Pres [hPa] of the Lifted Condensation Level: 621.61
Mean mixed layer potential temperature: 310.63
Mean mixed layer mixing ratio: 5.37
1000 hPa to 500 hPa thickness: 5755.00
Precipitable water [mm] for entire sounding: 15.25

```

Description of the [data columns](#) or [sounding indices](#).

[Close this window](#)
[Select another map](#)

Interested in graduate studies in atmospheric science? Check out our program at the [University of Wyoming](#)

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