

72250 BRO Brownsville Intl 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
1011.0	7	32.2	25.2	67	20.46	145	15	304.4	365.8	308.1
1000.0	103	29.8	23.8	70	18.98	145	20	302.9	359.5	306.4
977.5	305	28.0	23.3	76	18.88	155	21	303.1	359.4	306.5
944.6	610	25.2	22.7	86	18.73	155	17	303.3	359.1	306.7
942.0	635	25.0	22.6	87	18.72	156	17	303.3	359.1	306.7
935.0	700	24.6	21.0	80	17.06	160	17	303.5	354.4	306.6
926.0	785	26.0	14.0	48	10.96	164	17	305.8	339.0	307.8
925.0	795	26.2	14.2	48	11.12	165	17	306.1	339.8	308.1
923.0	814	26.4	13.4	45	10.57	165	17	306.5	338.6	308.4
912.6	914	26.0	11.9	42	9.71	165	17	307.1	336.7	308.9
903.0	1007	25.6	10.6	39	8.96	168	17	307.6	335.1	309.2
887.0	1164	24.4	13.4	50	11.01	173	16	307.9	341.6	310.0
881.4	1219	24.0	13.2	51	10.94	175	16	308.1	341.5	310.1
858.0	1454	22.4	12.4	53	10.65	175	15	308.8	341.4	310.8
850.0	1536	22.6	10.6	47	9.53	175	15	309.8	339.2	311.6
829.0	1753	22.0	3.0	29	5.76	134	11	311.4	329.7	312.5
822.0	1827	23.2	-11.8	9	1.89	120	10	313.4	319.8	313.8
821.8	1829	23.2	-11.7	9	1.91	120	10	313.4	319.9	313.8
817.0	1880	23.2	-8.8	11	2.42	116	9	314.0	322.1	314.4
793.4	2134	21.2	-1.8	21	4.23	95	6	314.4	328.2	315.2
778.0	2303	19.8	2.8	32	6.05	73	5	314.7	334.1	315.9
765.8	2438	18.9	2.9	34	6.21	55	5	315.2	335.1	316.4
742.0	2709	17.2	3.2	39	6.53	68	3	316.2	337.2	317.4
739.0	2743	16.9	2.8	39	6.38	70	3	316.3	336.8	317.5
700.0	3203	13.6	-2.4	33	4.60	95	4	317.5	332.6	318.4
698.0	3227	13.4	-3.6	31	4.22	98	4	317.6	331.4	318.4
691.0	3312	13.0	-1.0	38	5.17	109	4	318.0	334.9	319.0
668.0	3595	10.6	-2.4	40	4.83	147	5	318.4	334.3	319.4
663.0	3658	10.2	-3.8	37	4.38	155	5	318.7	333.1	319.5
648.0	3847	9.0	-8.0	29	3.25	180	4	319.4	330.3	320.0
631.0	4067	6.8	-6.2	39	3.83	208	3	319.3	332.1	320.1
615.7	4267	5.3	-7.3	40	3.62	235	2	319.8	331.9	320.5
597.0	4519	3.4	-8.6	41	3.36	270	4	320.5	331.8	321.1
590.0	4614	2.8	-12.2	32	2.55	283	5	320.9	329.6	321.4
571.0	4877	0.6	-13.5	34	2.38	320	7	321.3	329.5	321.8
550.0	5177	-1.9	-14.9	36	2.20	7	6	321.8	329.4	322.2
532.0	5441	-3.1	-24.1	18	1.03	48	4	323.4	327.2	323.6
524.0	5561	-2.9	-27.9	13	0.74	67	4	325.1	327.8	325.2
500.0	5930	-5.7	-30.7	12	0.60	125	2	326.0	328.3	326.1
492.0	6056	-6.7	-31.7	12	0.55	167	3	326.3	328.4	326.4
489.5	6096	-6.8	-32.5	11	0.51	180	3	326.7	328.7	326.8
460.0	6580	-7.7	-41.7	5	0.22	109	2	331.4	332.3	331.4
423.0	7226	-12.7	-43.7	6	0.19	13	0	333.0	333.8	333.1
418.1	7315	-13.2	-44.4	5	0.18	0	0	333.5	334.2	333.5
401.6	7620	-14.9	-46.9	5	0.14	50	3	335.1	335.7	335.1
400.0	7650	-15.1	-47.1	5	0.14	50	3	335.3	335.9	335.3
358.0	8480	-20.1	-45.1	9	0.19	108	6	339.4	340.2	339.4
326.7	9144	-25.8	-47.5	11	0.16	155	8	340.5	341.2	340.5
303.0	9689	-30.5	-49.5	14	0.14	159	13	341.3	341.9	341.3
300.0	9760	-30.7	-50.7	12	0.12	160	14	342.0	342.5	342.0
287.6	10058	-32.4	-54.2	10	0.08	165	17	343.7	344.1	343.7
280.0	10246	-33.5	-56.5	8	0.07	159	21	344.8	345.1	344.8
275.3	10363	-34.5	-57.3	8	0.06	155	23	345.0	345.3	345.0

252.1	10973	-39.6	-61.7	8	0.04	185	28	346.2	346.4	346.2
250.0	11030	-40.1	-62.1	8	0.04	185	29	346.3	346.5	346.3
216.0	12015	-47.7	-65.7	11	0.03	164	34	349.3	349.4	349.3
210.2	12192	-49.2	-66.2	12	0.02	160	35	349.6	349.7	349.6
200.0	12520	-52.1	-67.1	15	0.02	150	34	350.1	350.2	350.1
182.5	13106	-57.2	-68.6	22	0.02	155	32	351.0	351.1	351.0
181.0	13157	-57.7	-68.7	23	0.02	153	32	351.1	351.2	351.1
164.0	13774	-61.3	-75.3	14	0.01	133	29	355.1	355.1	355.1
154.0	14160	-64.9	-77.9	15	0.01	120	28	355.4	355.4	355.4
150.0	14320	-65.9	-77.9	17	0.01	115	27	356.4	356.4	356.4
149.8	14326	-66.0	-77.9	17	0.01	115	27	356.4	356.4	356.4
128.5	15240	-73.0	-82.3	23	0.00	130	22	359.7	359.7	359.7
126.0	15356	-73.9	-82.9	24	0.00	128	26	360.1	360.1	360.1
122.0	15545	-74.6	-83.6	24	0.00	125	33	362.2	362.2	362.2
118.0	15736	-75.3	-84.3	24	0.00	130	30	364.3	364.4	364.4
116.0	15836	-73.1	-82.1	24	0.00	129	29	370.2	370.2	370.2
107.0	16307	-74.1	-84.1	20	0.00	124	22	376.9	377.0	376.9
103.0	16528	-75.1	-85.1	20	0.00	122	19	379.2	379.2	379.2
102.0	16585	-73.9	-83.9	20	0.00	121	18	382.5	382.5	382.5
100.0	16700	-73.9	-83.9	20	0.00	120	16	384.7	384.7	384.7
93.9	17069	-72.7	-85.0	14	0.00	135	23	394.0	394.1	394.0
89.1	17374	-71.7	-85.9	10	0.00	130	4	401.9	401.9	401.9
87.3	17496	-71.3	-86.3	9	0.00	130	9	405.1	405.1	405.1
84.7	17678	-69.3	-86.2	7	0.00	130	17	412.7	412.8	412.7
81.9	17877	-67.1	-86.1	5	0.00	107	20	421.2	421.2	421.2
80.5	17983	-67.3	-86.7	5	0.00	95	22	422.9	422.9	422.9
76.5	18288	-67.9	-88.6	4	0.00	90	30	427.8	427.9	427.8
72.6	18601	-68.5	-90.5	3	0.00	105	19	433.0	433.0	433.0
70.4	18786	-66.5	-89.5	3	0.00	113	12	441.1	441.1	441.1
70.0	18820	-66.5	-89.5	3	0.00	115	11	441.8	441.8	441.8
69.1	18898	-66.3	-89.5	3	0.00	120	16	443.7	443.8	443.7
65.8	19202	-65.7	-89.7	2	0.00	95	23	451.4	451.4	451.4
61.4	19619	-64.9	-89.9	2	0.00	102	29	462.2	462.2	462.2
59.5	19812	-63.4	-89.4	2	0.00	105	32	469.7	469.7	469.7
57.7	20002	-61.9	-88.9	2	0.00	103	31	477.2	477.3	477.2
53.9	20422	-62.4	-90.0	1	0.00	100	28	485.5	485.5	485.5
51.6	20695	-62.7	-90.7	1	0.00	78	25	490.9	490.9	490.9
51.3	20726	-62.5	-90.5	1	0.00	75	25	491.9	492.0	491.9
50.0	20890	-61.7	-89.7	1	0.00	80	28	497.7	497.7	497.7
48.9	21031	-61.2	-89.5	1	0.00	95	32	502.1	502.2	502.1
46.5	21336	-60.0	-88.9	1	0.00	90	24	512.0	512.0	512.0
42.6	21889	-57.9	-87.9	1	0.00	90	37	530.3	530.4	530.3
40.2	22250	-59.4	-88.6	1	0.00	90	46	535.4	535.5	535.4
39.4	22378	-59.9	-88.9	1	0.00	89	42	537.2	537.3	537.2
36.5	22860	-56.0	-86.0	1	0.01	85	27	559.1	559.2	559.1
36.4	22876	-55.9	-85.9	1	0.01	85	27	559.9	559.9	559.9
33.3	23444	-54.3	-85.3	1	0.01	80	38	578.5	578.6	578.5
33.2	23470	-54.3	-85.3	1	0.01	80	39	579.1	579.2	579.1
31.6	23774	-54.7	-85.2	1	0.01	55	40	586.0	586.1	586.1
30.1	24079	-55.1	-85.1	1	0.01	60	45	593.1	593.2	593.1
30.0	24110	-55.1	-85.1	1	0.01	65	44	593.8	593.9	593.8
28.7	24392	-55.7	-85.7	1	0.01	65	44	599.7	599.8	599.8
28.7	24384	-55.7	-85.7	1	0.01	65	44	599.6	599.6	599.6
25.5	25147	-54.5	-84.5	1	0.01	83	42	623.8	623.9	623.8
24.3	25458	-50.9	-82.9	1	0.02	90	41	642.8	643.0	642.8
22.7	25903	-49.1	-82.1	1	0.02	101	40	660.8	661.0	660.8
20.7	26518	-50.6	-82.9	1	0.02	115	38	674.1	674.3	674.1
20.1	26698	-51.1	-83.1	1	0.02	102	35	678.0	678.2	678.0
20.0	26730	-51.1	-83.1	1	0.02	100	35	679.0	679.2	679.0
18.7	27169	-49.1	-82.1	1	0.03	91	42	698.4	698.7	698.4
18.0	27432	-49.5	-81.8	1	0.03	85	46	705.1	705.4	705.1

17.7	27530	-49.7	-81.7	1	0.03	85	48	707.5	707.9	707.6
17.1	27737	-47.6	-80.9	1	0.03	85	51	720.5	720.8	720.5
16.8	27874	-46.3	-80.3	1	0.04	88	51	729.1	729.5	729.1
16.0	28199	-45.9	-79.9	1	0.04	96	53	740.6	741.1	740.7
15.7	28346	-44.6	-79.2	1	0.05	100	53	749.5	750.0	749.5
15.4	28455	-43.7	-78.7	1	0.05	104	51	756.0	756.6	756.1
15.0	28651	-44.4	-78.6	1	0.06	110	46	759.9	760.6	760.0
15.0	28631	-44.7	-78.7	1	0.05	109	46	758.4	759.0	758.4
14.7	28767	-42.9	-77.9	1	0.06	103	47	768.8	769.5	768.9
14.0	29096	-43.5	-78.5	1	0.06	84	49	777.6	778.3	777.6
13.7	29261	-43.0	-78.3	1	0.06	75	50	784.6	785.4	784.6
11.9	30175	-40.4	-77.0	1	0.09	100	37	824.6	825.7	824.7
11.5	30431	-39.7	-76.7	1	0.10	96	35	836.1	837.3	836.2
11.4	30480	-39.8	-76.6	1	0.10	95	35	837.4	838.7	837.5
11.1	30673	-40.3	-76.3	1	0.11	92	34	842.5	843.8	842.5
10.4	31090	-38.3	-75.5	1	0.13	85	33	864.5	866.1	864.6
10.0	31390	-36.9	-74.9	1	0.15	75	36	880.6	882.5	880.7
9.6	31673	-35.9	-73.9	1	0.18	76	37	894.8	897.1	894.8
8.2	32767	-36.1	-74.1	1	0.20	79	43	935.2	937.9	935.3
7.7	33223	-37.7	-75.0	1	0.19	80	45	946.4	949.0	946.5
7.7	33202	-38.1	-75.1	1	0.19	80	45	944.1	946.7	944.2
7.6	33292	-36.5	-74.5	1	0.21			954.1	957.0	954.2
7.5	33384	-36.9	-74.9	1	0.20			956.1	958.8	956.2

Station information and sounding indices

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Station identifier: BRO
Station number: 72250
Observation time: 150726/0000
Station latitude: 25.91
Station longitude: -97.41
Station elevation: 7.0
Showalter index: 1.50
Lifted index: -5.95
LIFT computed using virtual temperature: -7.14
SWEAT index: 159.19
K index: 22.90
Cross totals index: 16.30
Vertical totals index: 28.30
Totals totals index: 44.60
Convective Available Potential Energy: 2310.16
CAPE using virtual temperature: 2557.95
Convective Inhibition: -231.93
CINS using virtual temperature: -98.40
Equilibrium Level: 127.68
Equilibrium Level using virtual temperature: 127.63
Level of Free Convection: 682.13
LFCT using virtual temperature: 724.99
Bulk Richardson Number: 102.07
Bulk Richardson Number using CAPV: 113.01
Temp [K] of the Lifted Condensation Level: 295.52
Pres [hPa] of the Lifted Condensation Level: 914.21
Mean mixed layer potential temperature: 303.20
Mean mixed layer mixing ratio: 19.05
1000 hPa to 500 hPa thickness: 5827.00
Precipitable water [mm] for entire sounding: 38.73

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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)
