

72327 BNA Nashville 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	118									
993.0	180	29.2	20.2	58	15.25	25	3	303.0	348.4	305.7
974.0	352	27.8	17.8	55	13.34	21	5	303.2	343.1	305.6
945.9	610	25.3	16.4	58	12.59	15	7	303.2	340.9	305.5
925.0	807	23.4	15.4	61	12.03	5	5	303.2	339.2	305.4
913.7	914	22.4	15.2	64	12.05	15	5	303.2	339.2	305.4
899.0	1055	21.0	15.0	69	12.07	357	5	303.2	339.3	305.4
882.1	1219	19.6	14.0	70	11.53	335	6	303.5	338.0	305.6
850.0	1538	17.0	12.1	73	10.54	340	7	303.9	335.6	305.9
821.4	1829	14.7	10.2	74	9.60	315	9	304.5	333.5	306.3
808.0	1968	13.6	9.3	75	9.18	329	11	304.8	332.6	306.4
801.0	2042	13.8	6.8	63	7.79	336	12	305.7	329.6	307.2
799.0	2063	14.2	5.2	55	6.99	338	12	306.4	327.9	307.7
792.3	2134	16.3	4.4	45	6.68	345	13	309.4	330.2	310.6
792.0	2138	16.4	4.4	45	6.66	345	13	309.5	330.3	310.7
764.5	2438	15.3	-5.0	24	3.48	350	15	311.5	322.8	312.1
762.0	2465	15.2	-5.8	23	3.27	350	15	311.6	322.3	312.2
757.0	2521	15.0	-10.0	17	2.37	350	16	312.0	319.9	312.4
750.0	2599	14.4	-3.6	29	3.93	350	18	312.2	324.9	312.9
737.3	2743	13.5	-5.8	26	3.37	350	20	312.7	323.8	313.4
722.0	2919	12.4	-8.6	22	2.78	341	18	313.4	322.6	313.9
718.0	2966	12.2	-5.8	28	3.47	339	18	313.7	325.1	314.3
711.0	3048	11.9	-7.7	25	3.03	335	17	314.3	324.3	314.9
701.0	3166	11.6	-10.4	20	2.48	335	17	315.2	323.5	315.6
700.0	3178	11.4	-10.6	20	2.45	335	17	315.1	323.3	315.5
686.0	3346	10.0	-4.0	37	4.17	344	17	315.3	328.9	316.1
671.0	3530	8.8	-9.2	27	2.85	353	18	316.0	325.5	316.5
660.7	3658	8.0	-9.3	28	2.87	0	18	316.5	326.1	317.1
655.0	3730	7.6	-9.4	29	2.88	359	18	316.8	326.5	317.4
613.1	4267	2.8	-10.7	36	2.77	355	18	317.4	326.7	317.9
584.0	4662	-0.7	-11.7	43	2.69	355	13	317.7	326.8	318.2
580.0	4717	-0.7	-13.7	37	2.30	355	13	318.3	326.2	318.8
575.0	4786	0.6	-26.4	11	0.77	355	12	320.6	323.5	320.8
568.5	4877	0.4	-25.8	12	0.83	355	11	321.5	324.5	321.6
567.0	4899	0.4	-25.6	12	0.84	355	11	321.7	324.8	321.9
517.0	5636	-2.3	-47.3	2	0.10	344	16	327.0	327.5	327.1
500.0	5900	-4.7	-44.7	3	0.14	340	18	327.2	327.8	327.3
487.5	6096	-6.1	-47.1	2	0.11	340	20	327.9	328.3	327.9
461.0	6531	-9.3	-52.3	2	0.07	335	20	329.2	329.5	329.2
434.0	6993	-11.7	-57.7	1	0.04	330	19	331.9	332.0	331.9
433.0	7010	-11.8	-57.7	1	0.04	330	19	331.9	332.1	331.9
409.0	7443	-15.1	-57.1	1	0.04	337	23	333.1	333.3	333.2
400.0	7610	-15.5	-57.5	1	0.04	340	25	334.8	334.9	334.8
399.5	7620	-15.5	-57.6	1	0.04	340	25	334.9	335.0	334.9
390.0	7801	-15.9	-59.9	1	0.03	343	24	336.7	336.8	336.7
383.6	7925	-16.8	-60.0	1	0.03	345	24	337.1	337.2	337.1
341.0	8800	-23.3	-60.3	2	0.03	338	23	339.8	339.9	339.8
334.0	8952	-23.1	-56.1	3	0.06	337	22	342.1	342.3	342.1
325.3	9144	-24.5	-53.6	5	0.08	335	22	342.7	343.0	342.7
311.9	9449	-26.8	-49.6	10	0.13	10	20	343.7	344.2	343.7
300.0	9730	-28.9	-45.9	18	0.21	0	28	344.5	345.4	344.6
299.0	9754	-29.1	-45.9	18	0.21	0	29	344.6	345.5	344.6
278.0	10267	-33.7	-45.7	29	0.23	346	25	345.2	346.2	345.2

262.3	10668	-36.5	-50.2	23	0.15	335	21	346.8	347.4	346.8
251.0	10973	-38.7	-53.6	19	0.10	0	18	348.0	348.4	348.0
250.0	11000	-38.9	-53.9	19	0.10	0	18	348.1	348.5	348.1
248.0	11055	-39.3	-54.3	19	0.10	0	18	348.3	348.7	348.3
219.0	11887	-46.8	-58.8	24	0.06	0	13	349.3	349.6	349.3
202.0	12425	-51.7	-61.7	29	0.05	9	19	349.7	350.0	349.8
200.0	12490	-52.3	-62.3	29	0.04	10	20	349.8	350.0	349.8
199.8	12497	-52.3	-62.4	29	0.04	10	20	349.8	350.0	349.8
190.5	12802	-54.0	-64.8	26	0.03	355	24	351.9	352.0	351.9
175.0	13344	-57.1	-69.1	20	0.02	348	28	355.5	355.6	355.5
150.0	14300	-65.5	-76.5	20	0.01	335	35	357.1	357.1	357.1
149.4	14326	-65.7	-76.7	20	0.01	335	36	357.2	357.2	357.2
147.0	14423	-66.3	-77.3	20	0.01	336	35	357.7	357.8	357.7
128.3	15240	-70.6	-80.6	22	0.00	345	25	364.1	364.2	364.1
128.0	15254	-70.7	-80.7	22	0.00	344	25	364.2	364.3	364.2
121.0	15588	-70.3	-81.3	19	0.00	332	24	370.9	370.9	370.9
110.0	16151	-73.3	-82.3	24	0.00	310	22	375.5	375.5	375.5
103.0	16536	-73.3	-83.3	21	0.00	331	18	382.6	382.6	382.6
100.0	16710	-72.1	-83.1	18	0.00	340	16	388.2	388.2	388.2

Station information and sounding indices

```

Station identifier: BNA
Station number: 72327
Observation time: 150725/0000
Station latitude: 36.25
Station longitude: -86.57
Station elevation: 180.0
Showalter index: 4.06
Lifted index: 0.99
LIFT computed using virtual temperature: 0.20
SWEAT index: 177.19
K index: 11.80
Cross totals index: 16.80
Vertical totals index: 21.70
Totals totals index: 38.50
Convective Available Potential Energy: 19.35
CAPE using virtual temperature: 57.97
Convective Inhibition: -13.12
CINS using virtual temperature: -2.59
Equilibrium Level: 575.57
Equilibrium Level using virtual temperature: 407.08
Level of Free Convection: 817.59
LFCT using virtual temperature: 832.63
Bulk Richardson Number: 2.19
Bulk Richardson Number using CAPV: 6.56
Temp [K] of the Lifted Condensation Level: 288.64
Pres [hPa] of the Lifted Condensation Level: 842.10
Mean mixed layer potential temperature: 303.18
Mean mixed layer mixing ratio: 13.36
1000 hPa to 500 hPa thickness: 5782.00
Precipitable water [mm] for entire sounding: 31.19

```

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)
