

72456 TOP Topeka 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	97									
981.0	270	28.6	23.9	76	19.47	95	4	303.4	361.6	306.9
979.0	288	28.6	21.6	66	16.90	95	4	303.6	354.1	306.6
970.0	370	28.6	20.6	62	16.02	96	5	304.4	352.4	307.3
966.0	407	29.2	18.2	52	13.81	97	6	305.4	346.9	307.9
946.0	592	29.0	15.0	43	11.46	100	9	307.0	341.8	309.1
944.1	610	28.7	16.4	47	12.54	100	9	306.9	344.9	309.2
939.0	658	28.0	20.0	62	15.94	108	9	306.6	354.8	309.5
925.0	791	27.6	21.6	70	17.91	130	8	307.5	361.9	310.8
919.0	849	27.4	22.4	74	18.96	149	8	307.9	365.6	311.4
912.3	914	27.1	21.7	72	18.32	170	8	308.2	364.1	311.6
901.0	1025	26.6	20.6	70	17.28	174	9	308.8	361.6	312.0
881.3	1219	24.9	19.7	73	16.68	180	11	309.0	360.0	312.1
850.0	1537	22.2	18.2	78	15.73	180	14	309.4	357.5	312.3
826.0	1786	20.0	17.7	87	15.68	189	12	309.6	357.6	312.5
821.9	1829	19.8	17.1	84	15.17	190	12	309.9	356.3	312.7
817.0	1881	19.6	16.4	82	14.58	194	12	310.1	354.9	312.9
808.0	1977	19.6	13.6	68	12.26	202	11	311.1	349.0	313.4
793.2	2134	18.6	11.5	63	10.84	215	9	311.7	345.4	313.8
765.5	2438	16.7	7.4	54	8.50	260	10	312.9	339.5	314.5
738.7	2743	14.8	3.3	46	6.60	270	11	314.0	335.0	315.2
733.0	2809	14.4	2.4	44	6.25	267	11	314.2	334.2	315.4
700.0	3196	11.4	-1.6	40	4.89	250	14	315.1	330.9	316.0
685.0	3376	9.8	-3.2	40	4.43	252	16	315.2	329.7	316.1
661.8	3658	7.5	-3.7	45	4.43	255	18	315.8	330.2	316.6
614.2	4267	2.6	-4.7	59	4.42	255	26	316.9	331.4	317.8
600.0	4459	1.0	-5.0	64	4.42	264	26	317.2	331.7	318.1
589.0	4607	-0.3	-4.7	72	4.61	272	25	317.4	332.5	318.3
585.0	4662	-0.7	-3.4	82	5.12	274	25	317.6	334.2	318.5
580.0	4730	-0.5	-2.0	90	5.73	278	25	318.6	337.2	319.7
569.5	4877	-0.8	-2.5	89	5.65	285	25	319.9	338.4	321.0
559.0	5025	-1.1	-2.9	88	5.56	285	28	321.2	339.5	322.3
548.1	5182	-1.8	-3.4	88	5.45	285	32	322.2	340.2	323.3
537.0	5345	-2.5	-4.0	89	5.33	284	32	323.3	341.0	324.3
529.0	5464	-2.5	-5.5	80	4.83	283	32	324.6	340.9	325.6
513.0	5708	-3.7	-7.2	77	4.37	281	31	326.1	340.9	326.9
500.0	5910	-4.7	-8.3	76	4.11	280	31	327.2	341.3	328.1
488.3	6096	-5.9	-9.0	78	3.97	280	29	328.0	341.6	328.8
475.0	6312	-7.3	-9.9	82	3.82	276	26	328.9	342.0	329.6
464.0	6494	-8.5	-11.5	79	3.44	273	24	329.6	341.5	330.3
460.0	6561	-8.5	-13.2	69	3.02	272	23	330.4	341.0	331.0
451.5	6706	-9.5	-13.9	70	2.90	270	21	330.9	341.1	331.4
439.0	6922	-11.1	-15.0	73	2.73	275	22	331.5	341.2	332.1
427.0	7134	-12.7	-14.4	87	2.95	279	23	332.1	342.6	332.7
413.0	7388	-14.5	-15.9	89	2.70	285	25	333.0	342.6	333.5
400.5	7620	-15.3	-18.1	79	2.31	290	26	334.9	343.3	335.4
400.0	7630	-15.3	-18.2	78	2.29	290	26	335.0	343.3	335.5
395.0	7725	-15.5	-18.8	76	2.21	287	26	336.0	344.0	336.4
369.1	8230	-19.0	-22.4	74	1.73	270	26	337.9	344.3	338.2
349.0	8647	-21.9	-25.4	73	1.40	280	25	339.4	344.7	339.7
340.0	8839	-23.3	-26.5	75	1.29	285	25	340.1	345.0	340.3
331.0	9034	-24.7	-27.7	76	1.19	275	29	340.8	345.3	341.0
326.0	9145	-25.9	-31.9	57	0.82	270	31	340.6	343.8	340.8

321.0	9256	-26.9	-41.9	23	0.30	271	32	340.7	341.9	340.8
311.0	9483	-28.9	-47.9	14	0.16	273	33	341.0	341.7	341.0
303.0	9669	-29.7	-42.7	27	0.29	274	34	342.4	343.6	342.5
300.0	9740	-30.1	-43.1	27	0.28	275	34	342.8	344.0	342.9
279.0	10256	-33.7	-48.7	21	0.16	275	39	344.8	345.6	344.9
274.8	10363	-34.6	-49.5	21	0.15	275	40	345.0	345.7	345.1
250.0	11020	-40.3	-54.3	21	0.10	280	37	346.0	346.4	346.0
200.0	12500	-52.7	-64.7	22	0.03	275	37	349.1	349.3	349.2
198.0	12565	-53.3	-65.3	22	0.03	275	37	349.2	349.4	349.2
189.0	12862	-56.1	-65.1	31	0.03	273	39	349.4	349.5	349.4
169.0	13561	-62.1	-69.1	39	0.02	269	42	350.7	350.8	350.8
159.0	13935	-64.5	-71.5	38	0.02	267	43	352.9	352.9	352.9
152.0	14209	-64.7	-73.7	28	0.01	265	45	357.1	357.1	357.1
150.0	14290	-65.3	-73.3	32	0.01	265	45	357.4	357.5	357.4
144.0	14538	-66.7	-76.7	23	0.01	263	45	359.2	359.2	359.2
137.0	14838	-69.3	-79.3	22	0.01	261	44	359.7	359.8	359.7
134.8	14935	-69.7	-79.5	23	0.01	260	44	360.6	360.7	360.6
128.0	15240	-71.1	-80.2	25	0.01	265	43	363.5	363.6	363.5
127.0	15289	-71.3	-80.3	25	0.01	270	42	364.0	364.0	364.0
123.0	15478	-70.7	-80.7	22	0.00	273	35	368.4	368.4	368.4
115.5	15850	-71.8	-81.1	24	0.00	280	20	373.1	373.1	373.1
112.0	16032	-72.3	-81.3	25	0.00	271	22	375.4	375.4	375.4
110.0	16139	-71.1	-80.1	25	0.01	266	24	379.6	379.6	379.6
109.0	16193	-70.9	-80.9	22	0.01	264	24	381.0	381.0	381.0
102.0	16584	-73.7	-81.7	29	0.00	245	29	382.9	382.9	382.9
100.0	16700	-72.3	-81.3	25	0.01	240	31	387.8	387.8	387.8
93.7	17083	-71.3	-81.3	21	0.01	242	21	397.0	397.1	397.0
89.9	17332	-64.1	-78.1	13	0.01	243	15	416.1	416.1	416.1
86.1	17596	-64.5	-78.5	13	0.01	245	9	420.4	420.5	420.4
85.0	17678	-63.7	-78.3	12	0.01	245	7	423.7	423.8	423.7
82.2	17880	-61.7	-77.7	10	0.01	262	7	431.8	431.8	431.8
76.9	18288	-62.7	-80.2	8	0.01	295	7	437.9	437.9	437.9
75.0	18445	-63.1	-81.1	7	0.01	269	8	440.3	440.3	440.3
71.8	18713	-62.9	-81.9	6	0.01	226	10	446.2	446.3	446.2
70.0	18870	-61.1	-82.1	5	0.01	200	11	453.3	453.4	453.3
69.5	18914	-60.7	-81.7	5	0.01	222	10	455.1	455.2	455.1
66.3	19202	-61.1	-81.7	5	0.01	5	2	460.4	460.5	460.4
61.0	19723	-61.7	-81.7	5	0.01	45	7	470.2	470.2	470.2
59.5	19878	-59.1	-80.1	5	0.01	57	9	479.4	479.4	479.4
57.3	20117	-58.8	-79.5	5	0.01	75	11	485.3	485.4	485.3
52.0	20726	-58.0	-78.1	6	0.02	115	18	500.9	501.0	500.9
50.5	20907	-57.7	-77.7	6	0.02	122	17	505.6	505.8	505.6
50.0	20970	-57.1	-77.1	6	0.02	125	16	508.5	508.6	508.5
47.7	21270	-54.3	-75.3	6	0.03	100	6	522.0	522.3	522.1
47.2	21336	-54.3	-75.3	6	0.03	95	4	523.6	523.8	523.6
45.0	21641	-54.2	-75.4	6	0.03	50	12	530.9	531.1	530.9
42.9	21946	-54.2	-75.4	6	0.03	70	23	538.2	538.4	538.2
39.1	22555	-54.1	-75.6	6	0.03	95	16	553.2	553.5	553.2
37.2	22860	-54.1	-75.6	5	0.04	70	20	560.8	561.1	560.9
35.5	23165	-54.0	-75.7	5	0.04	115	19	568.6	568.9	568.6
33.9	23470	-54.0	-75.7	5	0.04	110	14	576.5	576.8	576.5
32.3	23774	-54.0	-75.8	5	0.04	90	20	584.4	584.8	584.4
30.8	24079	-53.9	-75.9	5	0.04	105	22	592.5	592.9	592.5
30.0	24250	-53.9	-75.9	5	0.04	105	24	597.1	597.5	597.1
29.4	24384	-54.0	-76.7	5	0.04	100	30	600.5	600.8	600.5
28.3	24624	-54.1	-78.1	4	0.03	104	25	606.6	606.9	606.6
28.0	24689	-53.7	-77.8	4	0.03	105	24	609.5	609.8	609.5
26.7	24994	-51.6	-76.3	4	0.04	90	19	623.5	623.9	623.5
25.9	25198	-50.3	-75.3	4	0.05	90	20	632.9	633.4	633.0
20.1	26857	-49.1	-75.1	3	0.07	90	29	684.1	684.9	684.2
20.0	26890	-49.1	-76.1	3	0.06	90	29	685.1	685.7	685.1

18.4	27432	-47.6	-77.4	2	0.05	90	32	706.1	706.7	706.1
18.3	27474	-47.5	-77.5	2	0.05	90	32	707.8	708.3	707.8
16.1	28328	-42.9	-76.9	1	0.07	91	32	749.1	749.8	749.1
14.4	29079	-42.7	-78.7	1	0.06	93	33	774.0	774.7	774.1
13.1	29720	-39.9	-76.9	1	0.08	94	33	804.9	805.9	804.9
12.4	30094	-40.7	-77.7	1	0.08	94	33	814.8	815.8	814.9
11.7	30480	-39.3	-76.8	1	0.09	95	33	833.2	834.4	833.3
11.2	30790	-38.1	-76.1	1	0.11	89	34	848.3	849.6	848.3
10.0	31570	-37.3	-75.3	1	0.14	75	35	879.1	880.9	879.2
9.9	31640	-37.1	-75.1	1	0.15	75	35	882.4	884.3	882.5
8.5	32693	-38.3	-75.3	1	0.16	81	36	917.0	919.2	917.1
7.5	33528	-36.2	-74.4	1	0.21	85	36	957.6	960.6	957.8
7.2	33833	-35.4	-74.1	1	0.23	90	43	972.9	976.1	973.0
7.0	34040	-34.9	-73.9	1	0.25	90	43	983.4	986.9	983.5
6.9	34140	-35.1	-73.1	1	0.28			986.6	990.6	986.8

Station information and sounding indices

```

Station identifier: TOP
Station number: 72456
Observation time: 150726/0000
Station latitude: 39.07
Station longitude: -95.62
Station elevation: 270.0
Showalter index: -4.16
Lifted index: -1.52
LIFT computed using virtual temperature: -1.85
SWEAT index: 293.41
K index: 32.10
Cross totals index: 22.90
Vertical totals index: 26.90
Totals totals index: 49.80
Convective Available Potential Energy: 541.66
CAPE using virtual temperature: 634.13
Convective Inhibition: -236.51
CINS using virtual temperature: -210.52
Equilibrium Level: 205.09
Equilibrium Level using virtual temperature: 204.41
Level of Free Convection: 678.65
LFCT using virtual temperature: 702.00
Bulk Richardson Number: 11.37
Bulk Richardson Number using CAPV: 13.31
Temp [K] of the Lifted Condensation Level: 289.67
Pres [hPa] of the Lifted Condensation Level: 826.70
Mean mixed layer potential temperature: 305.87
Mean mixed layer mixing ratio: 14.69
1000 hPa to 500 hPa thickness: 5813.00
Precipitable water [mm] for entire sounding: 51.16

```

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)