

74626 Wfo Phoenix Observations at 12Z 24 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	107									
970.0	384	29.6	17.6	48	13.23	150	6	305.4	345.3	307.8
945.2	610	27.8	16.8	51	12.93	20	1	305.8	344.8	308.1
925.0	799	26.2	16.2	54	12.68	285	3	306.1	344.4	308.4
913.0	914	25.3	15.8	56	12.50	270	4	306.3	344.1	308.6
881.8	1219	22.8	14.7	60	12.04	260	14	306.7	343.2	308.9
880.0	1237	22.6	14.6	61	12.01	261	14	306.8	343.2	309.0
850.0	1539	21.2	7.2	40	7.55	270	13	308.3	331.7	309.7
844.0	1600	21.4	3.4	31	5.82	272	12	309.2	327.5	310.3
821.9	1829	20.0	4.7	36	6.55	280	10	310.1	330.6	311.3
793.3	2134	18.2	6.4	46	7.66	310	4	311.3	335.3	312.7
787.0	2202	17.8	6.8	49	7.93	317	4	311.6	336.4	313.1
765.3	2438	15.8	6.7	55	8.12	340	5	311.8	337.3	313.4
738.2	2743	13.1	6.6	65	8.37	310	2	312.2	338.4	313.8
712.0	3048	10.4	6.5	77	8.62	0	0	312.5	339.5	314.1
700.0	3191	9.2	6.5	83	8.75	110	3	312.6	340.0	314.3
698.0	3215	9.0	6.7	86	8.90	112	3	312.7	340.5	314.4
694.0	3263	9.2	2.2	62	6.50	115	3	313.4	334.1	314.6
661.3	3658	6.7	0.6	65	6.10	145	2	314.9	334.5	316.1
614.0	4267	2.8	-1.8	72	5.51	290	4	317.2	335.1	318.3
602.0	4429	1.8	-2.4	74	5.36	267	4	317.9	335.3	318.9
591.0	4578	0.4	-1.8	85	5.71	245	5	317.9	336.4	319.0
578.0	4757	0.2	0.1	99	6.72	218	5	319.7	341.5	321.0
569.3	4877	-0.4	-0.5	99	6.51	200	5	320.4	341.6	321.6
507.5	5791	-5.1	-5.3	99	5.12	150	13	325.4	342.6	326.4
500.0	5910	-5.7	-5.9	98	4.95	155	12	326.0	342.7	327.0
488.2	6096	-6.8	-7.2	97	4.59	160	10	326.9	342.5	327.8
469.5	6401	-8.6	-9.3	94	4.04	185	10	328.4	342.3	329.2
456.0	6628	-9.9	-10.9	92	3.67	196	10	329.5	342.2	330.2
452.0	6696	-9.5	-13.8	71	2.93	199	10	330.8	341.1	331.4
433.8	7010	-11.5	-15.5	72	2.66	215	10	332.1	341.6	332.7
416.8	7315	-13.5	-17.1	74	2.41	175	3	333.4	342.1	333.9
400.5	7620	-15.4	-18.8	76	2.19	150	7	334.7	342.6	335.2
400.0	7630	-15.5	-18.8	76	2.18	175	9	334.8	342.7	335.2
384.5	7925	-17.6	-20.0	81	2.04	185	10	335.8	343.3	336.2
369.2	8230	-19.7	-21.2	87	1.91	225	12	336.9	344.0	337.3
365.0	8315	-20.3	-21.6	89	1.87	222	14	337.2	344.1	337.6
339.8	8839	-23.8	-26.3	80	1.32	200	23	339.5	344.5	339.8
325.9	9144	-25.8	-29.0	74	1.07	190	19	340.8	344.9	341.0
321.0	9255	-26.5	-30.0	72	0.99	193	20	341.3	345.1	341.5
300.0	9740	-30.3	-33.6	73	0.75	205	23	342.6	345.5	342.7
287.0	10054	-32.7	-38.7	55	0.47	205	23	343.5	345.4	343.6
274.5	10363	-35.3	-40.1	61	0.42	205	22	344.1	345.9	344.2
262.8	10668	-37.9	-41.6	68	0.38	190	22	344.7	346.2	344.8
260.0	10741	-38.5	-41.9	70	0.37	190	22	344.8	346.4	344.9
250.0	11010	-40.5	-44.9	63	0.28	190	24	345.7	346.9	345.8
220.0	11868	-47.9	-51.3	68	0.15	186	28	347.2	347.9	347.2
209.3	12192	-50.5	-54.6	61	0.11	185	29	348.1	348.6	348.1
200.0	12490	-52.9	-57.7	56	0.08	200	33	348.8	349.2	348.9
185.0	12989	-57.1	-62.1	53	0.05	208	35	349.9	350.1	349.9
181.6	13106	-57.9	-63.3	50	0.04	210	36	350.5	350.7	350.5
164.6	13716	-62.1	-69.6	36	0.02	210	43	353.4	353.6	353.4
154.0	14130	-64.9	-73.9	28	0.01	210	34	355.4	355.5	355.4

150.0	14290	-66.1	-75.1	27	0.01	210	31	356.0	356.1	356.0
149.1	14326	-66.4	-75.2	28	0.01	200	34	356.1	356.2	356.1
145.0	14495	-67.7	-75.7	31	0.01	206	30	356.7	356.8	356.7
134.7	14935	-68.1	-77.0	27	0.01	220	21	363.6	363.6	363.6
134.0	14968	-68.1	-77.1	27	0.01	217	20	364.1	364.2	364.1
128.0	15240	-70.7	-79.3	27	0.01	195	12	364.2	364.2	364.2
119.0	15669	-74.9	-82.9	28	0.00	185	19	364.2	364.2	364.2
115.3	15850	-74.4	-82.4	28	0.00	180	22	368.4	368.4	368.4
109.5	16154	-73.5	-81.5	29	0.00	220	15	375.6	375.6	375.6
108.0	16233	-73.3	-81.3	29	0.01	209	15	377.5	377.5	377.5
104.0	16459	-68.9	-77.9	26	0.01	180	14	390.0	390.0	390.0
104.0	16456	-68.9	-77.9	26	0.01	180	14	389.9	390.0	389.9
100.0	16690	-70.3	-81.3	19	0.01	265	10	391.6	391.7	391.6
94.4	17031	-71.3	-83.3	15	0.00			396.2	396.2	396.2

Station information and sounding indices

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Station number: 74626
Observation time: 150724/1200
Station latitude: 33.45
Station longitude: -111.95
Station elevation: 384.0
Showalter index: 4.82
Lifted index: -0.69
LIFT computed using virtual temperature: -0.75
SWEAT index: 124.40
K index: 31.40
Cross totals index: 12.90
Vertical totals index: 26.90
Totals totals index: 39.80
Convective Available Potential Energy: 87.08
CAPE using virtual temperature: 113.64
Convective Inhibition: -195.64
CINS using virtual temperature: -143.59
Equilibrium Level: 452.99
Equilibrium Level using virtual temperature: 430.52
Level of Free Convection: 663.22
LFCT using virtual temperature: 700.79
Bulk Richardson Number: 108.67
Bulk Richardson Number using CAPV: 141.82
Temp [K] of the Lifted Condensation Level: 287.44
Pres [hPa] of the Lifted Condensation Level: 805.11
Mean mixed layer potential temperature: 305.81
Mean mixed layer mixing ratio: 12.90
1000 hPa to 500 hPa thickness: 5803.00
Precipitable water [mm] for entire sounding: 43.80

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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 \(lcoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)