

72364 EPZ Santa Teresa 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	21									
925.0	732									
873.0	1252	36.2	10.2	21	9.02	65	7	321.6	350.9	323.3
863.0	1357	33.8	9.8	23	8.89	71	7	320.1	348.9	321.9
850.0	1494	32.6	9.6	24	8.90	80	8	320.3	349.1	322.0
818.3	1829	29.4	8.9	28	8.80	100	8	320.4	348.9	322.1
790.4	2134	26.5	8.2	31	8.70	115	5	320.5	348.6	322.2
763.6	2438	23.6	7.5	36	8.60	110	6	320.5	348.4	322.2
737.6	2743	20.7	6.8	41	8.50	130	3	320.6	348.1	322.2
728.0	2859	19.6	6.6	43	8.47	143	3	320.5	347.9	322.2
700.0	3195	16.6	5.6	48	8.21	180	5	320.8	347.5	322.4
678.0	3466	14.2	4.2	51	7.68	133	3	321.1	346.1	322.6
666.0	3617	13.2	0.2	41	5.86	107	1	321.6	340.9	322.8
662.8	3658	12.8	0.4	42	5.96	100	1	321.6	341.3	322.8
654.0	3770	11.8	0.8	47	6.24	87	2	321.7	342.2	322.9
647.0	3860	11.2	-2.8	37	4.84	77	2	322.0	338.1	323.0
630.0	4082	9.4	-5.6	34	4.02	51	4	322.4	335.9	323.2
621.0	4201	8.2	-3.8	42	4.67	38	5	322.4	338.0	323.3
616.1	4267	7.9	-8.3	31	3.34	30	5	322.8	334.1	323.4
614.0	4295	7.8	-10.2	27	2.88	30	5	323.0	332.8	323.5
591.0	4608	4.8	-13.2	26	2.35	36	4	323.0	331.2	323.5
574.0	4846	2.6	-8.4	44	3.55	39	4	323.1	335.2	323.8
571.8	4877	2.3	-7.2	49	3.92	40	4	323.2	336.4	324.0
564.0	4988	1.4	-2.8	74	5.55	48	4	323.4	341.8	324.4
555.0	5118	0.4	-3.5	75	5.35	58	5	323.7	341.5	324.7
548.0	5220	-0.3	-4.2	75	5.14	65	5	324.0	341.2	325.0
532.0	5457	-0.9	-8.9	55	3.69	83	6	326.1	338.7	326.8
511.0	5778	-3.3	-11.3	54	3.17	107	7	326.9	337.9	327.5
500.0	5950	-4.9	-10.9	63	3.35	120	8	327.0	338.6	327.7
491.0	6092	-6.1	-8.9	81	4.00	120	10	327.2	340.9	328.0
490.7	6096	-6.1	-9.0	80	3.98	120	10	327.3	340.9	328.1
478.0	6301	-6.9	-11.9	68	3.23	121	11	328.8	340.0	329.4
473.0	6382	-6.9	-17.9	41	1.99	122	11	329.8	336.9	330.1
456.0	6665	-9.5	-20.5	40	1.65	124	12	330.0	335.9	330.3
450.0	6767	-9.7	-22.7	34	1.38	124	13	331.0	336.0	331.2
444.0	6870	-10.3	-22.3	37	1.45	125	13	331.5	336.8	331.8
410.0	7474	-15.1	-26.1	39	1.12	129	15	332.9	337.1	333.1
402.1	7620	-14.8	-30.5	25	0.76	130	16	335.2	338.1	335.3
400.0	7660	-14.7	-31.7	22	0.68	125	16	335.8	338.4	335.9
399.0	7679	-14.7	-32.7	20	0.62	125	16	336.0	338.4	336.2
374.0	8166	-18.5	-39.5	14	0.33	112	15	337.3	338.6	337.3
353.0	8596	-20.7	-45.7	9	0.18	100	15	339.9	340.7	340.0
344.0	8787	-22.1	-40.1	18	0.34	95	14	340.5	341.9	340.6
337.0	8938	-23.3	-50.3	7	0.11	91	14	340.9	341.4	340.9
327.6	9144	-25.2	-50.9	7	0.11	85	14	341.1	341.6	341.1
322.0	9270	-26.3	-51.3	8	0.11	90	14	341.2	341.7	341.2
314.0	9452	-27.1	-37.1	38	0.51	97	14	342.6	344.6	342.7
302.0	9732	-29.3	-51.3	10	0.11	108	15	343.3	343.8	343.3
300.0	9780	-29.7	-52.7	9	0.10	110	15	343.4	343.8	343.4
287.0	10094	-32.5	-52.5	12	0.10	106	15	343.8	344.2	343.8
277.0	10342	-34.7	-43.7	40	0.29	103	16	344.1	345.3	344.2
272.0	10469	-35.1	-54.1	13	0.09	102	16	345.3	345.7	345.3
267.0	10598	-36.3	-58.3	8	0.05	100	16	345.4	345.7	345.4

259.0	10808	-38.1	-51.1	24	0.13	98	17	345.8	346.4	345.8
256.0	10888	-38.5	-44.5	53	0.29	97	17	346.3	347.5	346.4
250.0	11050	-39.9	-44.4	62	0.30	95	17	346.6	347.9	346.7
248.0	11105	-40.3	-44.5	64	0.30	96	17	346.8	348.1	346.9
239.0	11355	-42.3	-45.9	68	0.26	100	17	347.5	348.6	347.5
232.0	11555	-44.1	-50.1	51	0.17	103	17	347.7	348.4	347.8
217.0	11998	-47.9	-54.9	44	0.10	111	18	348.5	349.0	348.6
207.0	12307	-50.1	-56.1	49	0.09	116	18	349.8	350.2	349.8
200.0	12530	-51.7	-58.7	43	0.07	120	18	350.7	351.1	350.8
195.0	12694	-53.1	-60.1	42	0.06	122	19	351.1	351.3	351.1
184.0	13067	-56.3	-61.0	55	0.06	127	21	351.7	352.0	351.7
182.0	13137	-57.1	-64.1	41	0.04	128	22	351.5	351.7	351.5
178.0	13278	-58.1	-63.0	53	0.04	129	22	352.1	352.3	352.1
174.0	13422	-58.7	-68.7	26	0.02	131	23	353.4	353.5	353.4
171.0	13531	-59.9	-72.9	17	0.01	133	24	353.2	353.3	353.2
166.0	13716	-61.4	-74.2	17	0.01	135	25	353.7	353.7	353.7
154.0	14179	-65.3	-77.3	17	0.01	139	20	354.7	354.8	354.7
150.0	14340	-65.9	-76.9	20	0.01	140	18	356.4	356.4	356.4
141.0	14713	-68.1	-79.1	19	0.01	134	17	358.9	358.9	358.9
135.8	14935	-69.8	-80.1	21	0.00	130	17	359.6	359.6	359.6
134.0	15017	-70.5	-80.5	22	0.00	137	18	359.9	359.9	359.9
129.0	15240	-71.1	-81.8	19	0.00	155	21	362.8	362.8	362.8
127.0	15334	-71.3	-82.3	18	0.00	151	18	364.0	364.0	364.0
116.2	15850	-75.1	-84.0	24	0.00	130	4	366.3	366.3	366.3
112.0	16066	-76.7	-84.7	27	0.00	130	8	367.2	367.2	367.2
107.0	16329	-76.7	-84.7	27	0.00	137	17	372.0	372.0	372.0
104.6	16459	-75.3	-83.3	28	0.00	140	22	377.1	377.2	377.2
104.0	16493	-74.9	-82.9	28	0.00	148	20	378.5	378.5	378.5
102.0	16605	-75.7	-83.7	28	0.00	176	14	379.1	379.1	379.1
100.0	16720	-74.3	-82.3	28	0.00	205	7	383.9	383.9	383.9
94.1	17074	-74.7	-84.7	20	0.00	137	13	389.9	389.9	389.9
89.5	17374	-71.7	-84.3	14	0.00	80	18	401.5	401.5	401.5
85.0	17678	-68.7	-84.0	9	0.00	65	12	413.5	413.5	413.5
83.8	17760	-67.9	-83.9	9	0.00	64	11	416.8	416.8	416.8
80.8	17983	-67.4	-86.0	6	0.00	60	10	422.3	422.3	422.3
79.1	18108	-67.1	-87.1	4	0.00	87	11	425.4	425.4	425.4
76.8	18288	-63.9	-86.6	3	0.00	125	13	435.6	435.7	435.6
76.5	18311	-63.5	-86.5	3	0.00	123	12	437.0	437.0	437.0
73.1	18593	-62.1	-87.6	2	0.00	95	6	445.5	445.6	445.5
71.0	18772	-61.3	-88.3	2	0.00	88	9	451.1	451.1	451.1
70.0	18860	-61.3	-88.3	2	0.00	85	11	452.9	452.9	452.9
69.6	18898	-61.5	-88.5	2	0.00	85	12	453.4	453.4	453.4
66.2	19202	-62.6	-89.6	2	0.00	155	21	457.2	457.2	457.2
64.4	19374	-63.3	-90.3	1	0.00	155	16	459.4	459.4	459.4
63.0	19507	-62.4	-89.7	1	0.00	155	12	464.2	464.2	464.2
60.1	19802	-60.5	-88.5	1	0.00	107	12	474.9	474.9	474.9
60.0	19812	-60.5	-88.5	1	0.00	105	12	475.1	475.1	475.1
57.1	20117	-59.8	-88.2	1	0.00	155	12	483.3	483.3	483.3
54.4	20422	-59.2	-88.0	1	0.00	60	19	491.6	491.6	491.6
53.3	20552	-58.9	-87.9	1	0.00	60	16	495.1	495.1	495.1
51.8	20726	-60.1	-88.5	1	0.00	60	11	496.3	496.3	496.3
50.9	20839	-60.9	-88.9	1	0.00	57	14	497.0	497.0	497.0
50.0	20950	-60.3	-89.3	1	0.00	55	17	500.9	501.0	500.9
49.4	21031	-59.5	-88.8	1	0.00	80	29	504.8	504.8	504.8
48.3	21167	-58.1	-88.1	1	0.00	78	29	511.2	511.2	511.2
47.0	21336	-58.0	-88.0	1	0.00	75	29	515.4	515.5	515.4
44.8	21641	-57.7	-87.7	1	0.00	90	28	523.2	523.3	523.2
40.1	22342	-57.1	-87.1	1	0.01	71	32	541.6	541.6	541.6
38.8	22555	-56.5	-86.8	1	0.01	65	33	548.4	548.4	548.4
37.0	22860	-55.6	-86.3	1	0.01	90	35	558.2	558.3	558.2
32.5	23684	-53.1	-85.1	1	0.01	95	24	585.7	585.8	585.7

32.0	23774	-53.1	-85.1	1	0.01	95	23	588.0	588.0	588.0
30.0	24200	-53.3	-85.3	1	0.01	95	30	598.7	598.8	598.7
29.6	24286	-53.3	-85.3	1	0.01	90	30	601.0	601.1	601.0
29.1	24384	-52.7	-85.0	1	0.01	85	31	605.2	605.3	605.2
27.8	24689	-51.0	-83.9	1	0.01	85	31	618.3	618.4	618.3
27.6	24738	-50.7	-83.7	1	0.01	86	31	620.4	620.5	620.4
26.7	24952	-51.7	-83.7	1	0.01	92	30	623.5	623.6	623.5
25.5	25250	-50.5	-83.5	1	0.01	100	29	635.2	635.3	635.2
24.1	25603	-51.2	-83.3	1	0.02	110	27	643.2	643.3	643.2
23.9	25671	-51.3	-83.3	1	0.02	104	28	644.7	644.9	644.7
23.0	25908	-50.1	-82.8	1	0.02	85	31	654.9	655.1	654.9
22.6	26034	-49.5	-82.5	1	0.02	86	30	660.4	660.6	660.4
20.0	26830	-50.7	-82.7	1	0.02	95	27	680.2	680.5	680.2
20.0	26822	-50.7	-82.7	1	0.02	95	27	680.0	680.2	680.0
19.9	26863	-50.7	-82.7	1	0.02	94	27	681.2	681.4	681.2
18.2	27432	-48.5	-81.7	1	0.03	85	34	705.1	705.4	705.1
17.4	27737	-47.4	-81.1	1	0.03	70	31	718.2	718.5	718.2
17.1	27859	-46.9	-80.9	1	0.03	72	32	723.5	723.9	723.5
14.8	28814	-48.1	-81.1	1	0.04	85	38	750.0	750.4	750.0
14.1	29135	-45.3	-80.3	1	0.05	89	40	769.9	770.4	769.9
13.3	29524	-45.9	-79.9	1	0.05	94	43	780.8	781.4	780.8
13.2	29566	-45.7	-79.8	1	0.05	95	43	783.0	783.6	783.0
12.3	30048	-42.9	-78.9	1	0.06	87	42	809.0	809.8	809.0
11.5	30480	-42.6	-78.6	1	0.07	80	41	825.0	825.9	825.0
10.8	30926	-42.3	-78.3	1	0.08	78	45	841.8	842.8	841.8
10.1	31394	-39.4	-76.3	1	0.12	75	50	869.1	870.6	869.2
10.0	31450	-39.1	-76.1	1	0.12	75	50	872.4	874.0	872.5
9.5	31803	-36.9	-74.9	1	0.16	83	46	893.6	895.7	893.7
8.4	32614	-36.2	-74.2	1	0.20	100	38	926.8	929.4	926.9
7.7	33223	-35.7	-73.7	1	0.23	95	38	952.5	955.7	952.6
7.4	33528	-35.4	-73.4	1	0.25	95	44	965.7	969.1	965.8
7.3	33629	-35.3	-73.3	1	0.26	91	45	970.0	973.6	970.2
7.0	33920	-35.9	-73.9	1	0.25	80	46	979.2	982.7	979.4
6.6	34328	-36.7	-74.7	1	0.23	80	50	992.5	995.8	992.6
6.4	34542	-34.5	-73.5	1	0.29	80	52	1010.6	1014.7	1010.8
6.0	35052	-33.4	-72.4	1	0.36	80	56	1036.5	1041.8	1036.7
5.7	35357	-32.8	-71.8	1	0.42	85	43	1052.3	1058.5	1052.5
5.6	35479	-32.5	-71.5	1	0.44			1058.7	1065.3	1059.0
5.5	35606	-30.9	-70.9	1	0.49			1071.2	1078.6	1071.5

Station information and sounding indices

Station identifier: EPZ
 Station number: 72364
 Observation time: 150726/0000
 Station latitude: 31.86
 Station longitude: -106.70
 Station elevation: 1252.0
 Showalter index: -1.50
 Lifted index: -1.53
 LIFT computed using virtual temperature: -1.97
 SWEAT index: 199.21
 K index: 36.10
 Cross totals index: 14.50
 Vertical totals index: 37.50
 Totals totals index: 52.00
 Convective Available Potential Energy: 252.12
 CAPE using virtual temperature: 328.33
 Convective Inhibition: -77.90
 CINS using virtual temperature: -38.67

Equilibrium Level: 241.44
Equilibrium Level using virtual temperature: 240.76
Level of Free Convection: 569.58
LFCT using virtual temperature: 586.15
Bulk Richardson Number: 158.87
Bulk Richardson Number using CAPV: 206.90
Temp [K] of the Lifted Condensation Level: 277.78
Pres [hPa] of the Lifted Condensation Level: 606.81
Mean mixed layer potential temperature: 320.41
Mean mixed layer mixing ratio: 8.89
1000 hPa to 500 hPa thickness: 5929.00
Precipitable water [mm] for entire sounding: 27.23

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)
