

72634 APX Gaylord Observations at 12Z 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	86									
959.0	446	18.6	16.4	87	12.38	205	6	295.3	331.0	297.5
953.0	501	18.6	16.2	86	12.30	220	13	295.8	331.4	298.0
941.2	610	18.9	16.4	86	12.66	250	26	297.1	333.9	299.4
925.0	763	19.2	16.8	86	13.18	255	25	298.9	337.6	301.3
923.0	782	19.2	16.7	85	13.13	256	25	299.1	337.6	301.5
908.8	914	18.2	16.1	87	12.81	260	21	299.4	337.1	301.7
877.0	1219	16.0	14.7	92	12.09	265	19	300.2	335.8	302.4
850.0	1486	14.0	13.4	96	11.49	260	22	300.8	334.8	302.9
846.0	1526	13.8	13.2	96	11.40	260	23	301.0	334.8	303.1
816.2	1829	14.4	10.8	79	10.06	260	31	304.8	335.1	306.6
809.0	1904	14.6	10.2	75	9.75	258	30	305.7	335.3	307.5
787.2	2134	12.8	9.3	79	9.42	250	26	306.2	334.9	308.0
759.2	2438	10.5	8.1	85	8.99	240	26	306.9	334.4	308.6
753.0	2507	10.0	7.8	86	8.89	241	26	307.1	334.2	308.7
731.9	2743	8.5	5.6	82	7.84	245	26	307.9	332.1	309.4
720.0	2879	7.6	4.3	80	7.28	249	25	308.4	330.9	309.7
708.0	3017	6.6	4.2	85	7.35	254	23	308.8	331.6	310.1
705.4	3048	7.3	0.9	64	5.84	255	23	309.9	328.3	311.0
703.0	3076	8.0	-2.0	49	4.72	262	24	310.9	326.0	311.8
700.0	3111	8.8	-3.2	43	4.34	270	25	312.2	326.2	313.0
698.0	3135	8.8	-3.2	43	4.35	271	25	312.4	326.5	313.3
679.6	3353	7.0	-3.7	46	4.30	280	28	312.8	326.7	313.6
654.7	3658	4.5	-4.4	52	4.23	260	24	313.4	327.0	314.2
630.8	3962	2.0	-5.1	59	4.16	255	24	313.9	327.3	314.6
629.0	3985	1.8	-5.2	60	4.15	256	24	313.9	327.4	314.7
616.0	4153	-0.1	-3.3	79	4.89	264	25	313.6	329.3	314.5
607.3	4267	-1.2	-3.6	83	4.83	270	26	313.6	329.1	314.5
594.0	4444	-2.9	-4.2	91	4.74	267	28	313.6	328.9	314.5
565.0	4839	-5.7	-6.2	96	4.28	261	33	314.8	328.8	315.6
562.2	4877	-6.0	-6.6	95	4.16	260	33	314.9	328.5	315.7
545.0	5120	-7.9	-9.4	89	3.46	264	41	315.5	326.9	316.1
540.7	5182	-7.9	-9.5	88	3.45	265	43	316.2	327.6	316.8
516.0	5546	-8.1	-10.3	84	3.40	277	38	320.2	331.6	320.9
500.0	5790	-9.3	-11.5	84	3.19	285	35	321.6	332.4	322.3
491.0	5931	-9.7	-12.5	80	3.00	294	34	322.8	333.1	323.4
482.0	6073	-11.3	-12.9	88	2.96	304	32	322.6	332.6	323.1
480.6	6096	-11.4	-13.2	87	2.90	305	32	322.7	332.6	323.2
467.0	6316	-12.7	-15.8	78	2.40	309	32	323.8	332.1	324.2
456.0	6497	-14.5	-16.4	85	2.34	312	32	323.7	331.8	324.2
452.0	6564	-14.7	-17.9	77	2.08	313	32	324.3	331.6	324.7
433.0	6889	-17.1	-20.4	75	1.75	318	32	325.2	331.4	325.6
430.0	6941	-17.3	-22.1	66	1.52	319	32	325.6	331.1	325.9
426.0	7011	-17.9	-22.8	65	1.44	320	32	325.7	330.9	326.0
421.0	7099	-18.3	-32.3	28	0.61	316	31	326.3	328.6	326.4
417.0	7170	-18.7	-35.7	21	0.44	313	31	326.7	328.4	326.8
415.0	7206	-18.9	-30.9	34	0.70	312	31	326.9	329.5	327.0
409.0	7315	-19.7	-33.7	28	0.55	307	30	327.2	329.3	327.3
401.0	7461	-20.1	-23.2	76	1.48	301	29	328.5	333.9	328.8
400.0	7480	-20.3	-23.3	77	1.47	300	29	328.5	333.9	328.8
392.5	7620	-21.1	-23.9	78	1.43	295	28	329.3	334.5	329.6
392.0	7629	-21.1	-23.9	78	1.42	295	28	329.4	334.6	329.7
380.0	7858	-23.1	-27.4	68	1.07	301	31	329.7	333.6	329.9

361.1	8230	-24.9	-28.4	73	1.03	310	35	332.1	336.0	332.3
361.0	8232	-24.9	-28.4	73	1.03	310	35	332.1	336.0	332.3
346.1	8534	-27.3	-31.1	70	0.83	295	32	332.9	336.1	333.1
317.8	9144	-32.1	-36.5	64	0.53	295	44	334.5	336.6	334.6
312.0	9275	-33.1	-37.7	63	0.48	297	50	334.8	336.7	334.9
307.0	9388	-33.9	-38.9	61	0.43	298	56	335.3	337.0	335.4
304.0	9457	-33.7	-42.7	40	0.29	299	59	336.5	337.7	336.5
300.0	9550	-34.3	-43.3	40	0.28	300	64	336.9	338.1	337.0
285.0	9905	-37.5	-46.5	39	0.21	302	76	337.3	338.2	337.4
277.0	10101	-37.9	-59.9	8	0.04	302	83	339.5	339.7	339.5
262.0	10482	-40.3	-64.3	6	0.03	304	96	341.4	341.5	341.4
257.0	10613	-40.3	-67.3	4	0.02	305	101	343.3	343.4	343.3
254.9	10668	-40.6	-67.9	4	0.02	305	103	343.7	343.7	343.7
250.0	10800	-41.3	-69.3	3	0.01	305	100	344.5	344.6	344.5
209.0	12000	-48.7	-74.7	3	0.01	297	100	351.1	351.1	351.1
206.0	12096	-48.5	-75.5	3	0.01	296	100	352.8	352.9	352.8
200.0	12290	-49.9	-76.9	3	0.01	295	100	353.6	353.6	353.6
193.7	12497	-51.6	-76.9	3	0.01	295	107	354.2	354.2	354.2
189.0	12653	-52.8	-76.8	4	0.01	295	107	354.6	354.7	354.6
172.0	13259	-57.7	-76.7	7	0.01	299	98	356.3	356.3	356.3
167.9	13411	-57.5	-77.3	6	0.01	300	96	359.0	359.0	359.0
167.0	13445	-57.5	-77.5	6	0.01	300	94	359.6	359.6	359.6
158.0	13794	-58.9	-81.9	4	0.00	303	78	363.0	363.0	363.0
153.0	13996	-58.3	-82.3	3	0.00	305	69	367.4	367.4	367.4
152.4	14021	-58.5	-82.5	3	0.00	305	68	367.4	367.4	367.4
150.0	14120	-59.5	-83.5	3	0.00	305	64	367.4	367.4	367.4
149.0	14162	-59.7	-83.7	3	0.00	304	61	367.7	367.7	367.7
139.0	14593	-60.9	-83.9	3	0.00	291	35	373.0	373.0	373.0
138.2	14630	-60.7	-83.7	3	0.00	290	33	374.0	374.0	374.0
135.0	14775	-59.9	-82.9	3	0.00	290	34	377.9	377.9	377.9
130.0	15009	-60.5	-83.5	3	0.00	290	36	380.9	380.9	380.9
126.0	15202	-62.1	-85.1	3	0.00	290	38	381.4	381.4	381.4
125.2	15240	-61.3	-84.3	3	0.00	295	37	383.5	383.5	383.5
125.0	15252	-61.1	-84.1	3	0.00	295	37	384.1	384.1	384.1
123.0	15352	-60.5	-84.5	3	0.00	294	36	387.0	387.0	387.0
116.0	15714	-62.3	-86.3	3	0.00	290	32	390.2	390.2	390.2
114.0	15821	-61.9	-85.9	3	0.00	289	31	392.9	392.9	392.9
112.0	15930	-60.3	-84.3	3	0.00	288	30	397.9	397.9	397.9
109.0	16099	-61.7	-85.7	3	0.00	286	28	398.3	398.3	398.3
107.0	16213	-61.3	-84.3	3	0.00	285	27	401.2	401.2	401.2
100.0	16630	-62.7	-85.7	3	0.00	280	22	406.3	406.3	406.3
85.8	17586	-58.9	-86.9	2	0.00	318	13	432.1	432.2	432.1
83.2	17779	-60.1	-88.1	1	0.00	325	11	433.5	433.5	433.5
76.7	18288	-58.1	-86.7	1	0.00	345	6	447.8	447.8	447.8
73.1	18593	-56.9	-85.9	1	0.00	355	10	456.5	456.5	456.5
73.0	18604	-56.9	-85.9	1	0.00	355	10	456.8	456.8	456.8
70.0	18870	-57.1	-86.1	1	0.00	0	9	461.9	461.9	461.9
64.8	19358	-57.1	-86.1	1	0.00	27	11	472.2	472.2	472.2
57.2	20155	-52.3	-84.3	1	0.01	70	14	500.2	500.2	500.2
54.9	20422	-52.8	-84.5	1	0.01	85	15	504.9	505.0	504.9
52.3	20726	-53.4	-84.7	1	0.01	65	3	510.4	510.5	510.4
50.4	20969	-53.9	-84.9	1	0.01	48	5	514.8	514.9	514.8
50.0	21020	-53.5	-84.5	1	0.01	45	6	517.0	517.0	517.0
47.6	21336	-52.8	-84.2	1	0.01	30	8	525.9	525.9	525.9
45.4	21641	-52.2	-83.9	1	0.01	65	11	534.6	534.6	534.6
43.9	21860	-51.7	-83.7	1	0.01	69	11	540.9	541.0	540.9
41.4	22239	-52.9	-83.9	1	0.01	75	12	547.1	547.2	547.1
39.4	22555	-52.0	-83.6	1	0.01	80	13	557.1	557.2	557.1
38.5	22709	-51.5	-83.5	1	0.01	93	13	562.1	562.2	562.1
37.6	22860	-51.7	-83.4	1	0.01	105	12	565.4	565.5	565.4
35.9	23165	-52.1	-83.1	1	0.01	60	13	572.0	572.1	572.0

35.9	23162	-52.1	-83.1	1	0.01	60	13	571.9	572.0	571.9
34.2	23470	-51.5	-82.7	1	0.01	100	15	581.4	581.5	581.4
32.7	23774	-50.8	-82.4	1	0.01	100	16	590.8	591.0	590.8
31.2	24079	-50.2	-82.0	1	0.02	90	18	600.5	600.6	600.5
30.0	24330	-49.7	-81.7	1	0.02	110	20	608.5	608.7	608.5
29.8	24384	-49.6	-81.7	1	0.02	115	16	610.4	610.5	610.4
28.0	24783	-48.5	-81.5	1	0.02	98	16	624.0	624.2	624.0
25.9	25298	-48.9	-81.9	1	0.02	75	15	637.0	637.1	637.0
24.7	25603	-49.1	-82.2	1	0.02	100	23	644.8	645.0	644.8
24.0	25795	-49.3	-82.3	1	0.02	96	23	649.8	650.0	649.8
21.9	26399	-47.1	-81.1	1	0.03	84	24	673.5	673.8	673.5
20.5	26822	-47.0	-81.0	1	0.03	75	25	686.4	686.7	686.4
20.0	27000	-46.9	-80.9	1	0.03	90	26	691.8	692.1	691.9
18.7	27432	-46.8	-80.8	1	0.03	90	29	705.2	705.6	705.2
17.9	27737	-46.7	-80.7	1	0.03	95	24	714.9	715.3	714.9
17.9	27734	-46.7	-80.7	1	0.03	95	24	714.8	715.1	714.8
17.1	28042	-44.5	-79.5	1	0.04	70	23	731.1	731.6	731.1
16.3	28360	-42.3	-78.3	1	0.05	73	31	748.4	749.0	748.4
15.6	28656	-42.9	-78.9	1	0.05	75	38	755.9	756.5	755.9
15.6	28651	-42.9	-78.9	1	0.05	75	38	755.7	756.3	755.8
14.9	28956	-42.4	-78.5	1	0.06	60	34	767.2	767.9	767.2
12.5	30175	-40.2	-77.1	1	0.09	75	30	815.1	816.1	815.1
11.9	30492	-39.7	-76.7	1	0.09	66	35	828.0	829.2	828.1
11.9	30480	-39.7	-76.7	1	0.09	65	35	827.5	828.7	827.6
11.4	30785	-40.0	-77.0	1	0.09	80	46	837.0	838.1	837.0
10.8	31153	-40.5	-77.5	1	0.09	88	45	848.4	849.5	848.4
10.0	31680	-37.7	-75.7	1	0.13	100	43	877.7	879.3	877.7
8.8	32614	-32.5	-72.0	1	0.26	110	38	932.0	935.4	932.1
8.4	32899	-30.9	-70.9	1	0.32			949.1	953.4	949.3

Station information and sounding indices

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Station identifier: APX
Station number: 72634
Observation time: 150725/1200
Station latitude: 44.91
Station longitude: -84.71
Station elevation: 446.0
Showalter index: -0.18
Lifted index: -0.31
LIFT computed using virtual temperature: -0.42
SWEAT index: 239.82
K index: 24.70
Cross totals index: 22.70
Vertical totals index: 23.30
Totals totals index: 46.00
Convective Available Potential Energy: 136.60
CAPE using virtual temperature: 158.38
Convective Inhibition: -148.70
CINS using virtual temperature: -84.44
Equilibrium Level: 403.63
Equilibrium Level using virtual temperature: 402.57
Level of Free Convection: 624.48
LFCT using virtual temperature: 709.78
Bulk Richardson Number: 17.25
Bulk Richardson Number using CAPV: 20.00
Temp [K] of the Lifted Condensation Level: 289.03
Pres [hPa] of the Lifted Condensation Level: 900.19
Mean mixed layer potential temperature: 297.86
Mean mixed layer mixing ratio: 12.77

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1000 hPa to 500 hPa thickness: 5704.00

Precipitable water [mm] for entire sounding: 39.08

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)
