

72230 BMX Shelby County Airport 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	108									
993.0	178	31.0	23.0	62	18.18	300	5	304.8	359.4	308.1
983.0	268	29.8	20.8	59	16.00	301	6	304.4	352.4	307.4
950.0	568	26.8	19.8	66	15.55	305	9	304.4	351.0	307.2
945.5	610	26.4	19.6	66	15.45	305	9	304.4	350.7	307.2
925.0	801	24.8	18.8	69	15.00	325	9	304.7	349.6	307.4
913.1	914	23.9	18.4	71	14.81	335	9	304.9	349.3	307.6
881.8	1219	21.5	17.3	77	14.31	345	12	305.4	348.5	308.0
873.0	1307	20.8	17.0	79	14.16	344	13	305.6	348.2	308.2
850.0	1538	19.4	15.4	78	13.11	340	14	306.4	346.1	308.9
821.5	1829	17.6	13.1	75	11.63	355	14	307.6	343.0	309.7
792.6	2134	15.8	10.6	71	10.23	350	20	308.7	340.1	310.6
764.8	2438	13.9	8.2	68	8.97	335	20	309.9	337.6	311.6
752.0	2582	13.0	7.0	67	8.42	330	20	310.4	336.6	312.0
737.7	2743	12.1	4.2	59	7.04	325	19	311.1	333.2	312.4
722.0	2924	11.0	1.0	50	5.73	328	22	311.9	330.1	312.9
711.3	3048	10.2	-0.3	48	5.31	330	24	312.4	329.3	313.4
700.0	3181	9.4	-1.6	46	4.89	330	24	312.9	328.5	313.8
689.0	3312	8.4	-0.6	53	5.34	330	23	313.2	330.3	314.2
687.0	3336	8.4	-1.6	49	4.98	330	23	313.4	329.4	314.4
683.0	3384	8.8	-6.2	34	3.54	330	23	314.4	326.0	315.1
660.7	3658	6.9	-8.7	32	3.01	330	21	315.3	325.2	315.8
648.0	3817	5.8	-10.2	31	2.73	329	21	315.8	324.9	316.3
636.0	3970	4.6	-9.4	35	2.96	327	21	316.1	326.0	316.7
618.0	4203	4.2	-16.8	20	1.67	326	21	318.2	324.0	318.6
613.2	4267	3.9	-14.9	24	1.98	325	21	318.6	325.4	319.0
607.0	4349	3.6	-12.4	30	2.44	330	21	319.2	327.5	319.6
594.0	4524	2.0	-14.0	29	2.19	342	22	319.3	326.8	319.7
590.5	4572	1.9	-15.9	25	1.88	345	22	319.8	326.3	320.1
568.5	4877	1.6	-28.4	9	0.65	335	20	322.9	325.4	323.0
565.0	4927	1.6	-30.4	7	0.54	334	20	323.4	325.5	323.5
547.0	5187	-0.3	-29.3	9	0.62	327	21	324.2	326.5	324.3
528.0	5469	-1.1	-35.1	6	0.37	320	21	326.5	327.9	326.6
526.9	5486	-1.2	-35.0	6	0.37	320	21	326.6	328.0	326.6
500.0	5900	-4.5	-31.5	10	0.55	330	12	327.5	329.6	327.6
493.0	6011	-5.5	-31.5	11	0.56	330	11	327.6	329.7	327.7
487.7	6096	-5.7	-36.6	7	0.34	330	10	328.4	329.7	328.4
476.0	6287	-6.1	-48.1	2	0.10	333	13	330.1	330.6	330.2
469.1	6401	-6.8	-49.7	2	0.09	335	15	330.7	331.1	330.7
439.0	6917	-9.7	-56.7	1	0.04	318	17	333.3	333.5	333.3
433.7	7010	-10.4	-57.1	1	0.04	315	17	333.6	333.8	333.6
400.5	7620	-14.8	-59.9	1	0.03	320	22	335.5	335.6	335.5
400.0	7630	-14.9	-59.9	1	0.03	320	22	335.5	335.7	335.5
352.0	8582	-22.5	-64.5	1	0.02	316	22	337.8	337.9	337.8
339.8	8839	-23.9	-63.3	1	0.02	315	22	339.3	339.4	339.3
325.9	9144	-25.5	-61.8	2	0.03	325	22	341.2	341.3	341.2
316.0	9367	-26.7	-60.7	2	0.03	329	23	342.5	342.7	342.5
312.4	9449	-27.4	-62.0	2	0.03	330	23	342.7	342.9	342.7
300.0	9740	-29.7	-66.7	1	0.02	330	22	343.4	343.5	343.4
286.8	10058	-32.3	-67.5	2	0.02	325	24	344.1	344.2	344.1
279.0	10252	-33.9	-67.9	2	0.01	331	23	344.6	344.6	344.6

264.0	10636	-37.1	-57.1	11	0.06	343	21	345.4	345.6	345.4
256.0	10848	-38.3	-65.3	4	0.02	350	20	346.6	346.7	346.6
250.0	11010	-39.5	-55.5	17	0.08	355	19	347.2	347.6	347.2
249.0	11037	-39.7	-55.7	17	0.08	355	19	347.3	347.7	347.3
238.0	11345	-41.7	-61.7	10	0.04	1	23	348.8	349.0	348.8
229.8	11582	-43.5	-59.0	16	0.06	5	26	349.6	349.9	349.6
227.0	11664	-44.1	-58.1	20	0.07	6	26	349.9	350.2	349.9
201.0	12468	-51.1	-61.1	29	0.05	15	24	351.2	351.4	351.2
200.1	12497	-51.3	-62.2	26	0.04	15	24	351.4	351.6	351.4
200.0	12500	-51.3	-62.3	26	0.04	15	25	351.4	351.6	351.4
189.0	12865	-53.5	-76.5	4	0.01	9	20	353.6	353.6	353.6
173.3	13411	-57.6	-77.1	7	0.01	0	13	355.6	355.7	355.6
165.2	13716	-59.9	-77.4	8	0.01	305	7	356.8	356.8	356.8
163.0	13799	-60.5	-77.5	9	0.01	301	8	357.1	357.1	357.1
150.0	14310	-65.3	-80.3	11	0.00	275	13	357.4	357.4	357.4
149.6	14326	-65.4	-80.5	11	0.00	275	11	357.4	357.5	357.4
145.0	14515	-66.9	-82.9	9	0.00	290	16	358.1	358.1	358.1
142.2	14630	-67.6	-83.1	9	0.00	300	19	358.9	358.9	358.9
134.0	14988	-69.7	-83.7	11	0.00	326	14	361.3	361.3	361.3
128.4	15240	-69.9	-83.9	11	0.00	345	11	365.4	365.4	365.4
128.0	15260	-69.9	-83.9	11	0.00	348	10	365.7	365.7	365.7
122.0	15545	-71.1	-85.1	11	0.00	25	2	368.6	368.6	368.6
117.0	15791	-72.1	-86.1	11	0.00	20	4	371.1	371.1	371.1
114.0	15944	-71.5	-85.5	11	0.00	17	6	375.0	375.0	375.0
104.0	16481	-73.9	-87.9	10	0.00	5	11	380.4	380.4	380.4
100.0	16710	-73.5	-87.5	10	0.00	15	13	385.5	385.5	385.5
94.4	17047	-74.1	-87.1	12	0.00	29	15	390.7	390.7	390.7
88.4	17437	-67.9	-84.9	7	0.00	45	18	410.5	410.5	410.5
82.6	17844	-69.5	-85.5	8	0.00	62	21	415.3	415.3	415.3
78.2	18173	-68.1	-85.1	7	0.00	75	23	424.7	424.7	424.7
76.7	18288	-65.5	-84.7	5	0.00	80	24	432.5	432.5	432.5
76.2	18330	-64.5	-84.5	5	0.00	81	24	435.4	435.4	435.4
73.0	18593	-64.4	-84.9	4	0.00	90	27	441.0	441.0	441.0
70.0	18850	-64.3	-85.3	4	0.00	95	23	446.5	446.5	446.5
68.2	19009	-64.1	-86.1	4	0.00	88	20	450.2	450.3	450.2
67.1	19109	-61.3	-85.3	3	0.00	84	18	458.4	458.4	458.4
66.1	19202	-60.1	-85.2	2	0.00	80	16	462.9	462.9	462.9
64.4	19365	-58.1	-85.1	2	0.00	112	14	470.8	470.9	470.8
63.0	19507	-58.3	-85.7	2	0.00	140	13	473.4	473.4	473.4
60.0	19812	-58.8	-87.1	1	0.00	100	15	478.9	478.9	478.9
57.1	20117	-59.4	-88.4	1	0.00	120	18	484.4	484.4	484.4
54.4	20422	-59.9	-89.8	1	0.00	70	11	490.0	490.1	490.0
54.2	20445	-59.9	-89.9	1	0.00	72	11	490.5	490.5	490.5
51.2	20801	-58.3	-89.3	1	0.00	102	14	502.2	502.3	502.2
50.0	20950	-58.7	-89.7	1	0.00	115	15	504.7	504.7	504.7
49.4	21031	-58.7	-89.7	1	0.00	115	15	506.6	506.6	506.6
47.0	21336	-58.7	-89.7	1	0.00	110	18	513.7	513.8	513.7
44.8	21641	-58.6	-89.6	1	0.00	115	13	521.0	521.0	521.0
42.7	21946	-58.6	-89.6	1	0.00	70	14	528.3	528.4	528.3
38.7	22555	-58.6	-89.6	1	0.00	50	18	543.3	543.3	543.3
34.9	23209	-58.5	-89.5	1	0.00	60	24	559.8	559.9	559.8
32.0	23758	-55.5	-87.5	1	0.01	69	28	581.9	582.0	581.9
30.0	24170	-54.9	-86.9	1	0.01	75	32	594.4	594.4	594.4
29.0	24384	-54.5	-86.7	1	0.01	70	38	601.1	601.2	601.1
27.7	24689	-54.0	-86.4	1	0.01	85	41	610.9	610.9	610.9
25.2	25289	-52.9	-85.9	1	0.01	90	37	630.5	630.6	630.5
23.5	25743	-48.9	-82.9	1	0.02	94	34	654.9	655.0	654.9
22.9	25908	-49.1	-83.1	1	0.02	95	33	659.0	659.2	659.0
21.0	26480	-49.7	-83.7	1	0.02	98	39	673.8	674.0	673.8
20.0	26800	-48.9	-82.9	1	0.02	100	43	685.7	686.0	685.7
19.9	26822	-48.9	-82.9	1	0.02	100	46	686.5	686.8	686.5

18.2	27432	-47.4	-82.0	1	0.03	100	37	709.3	709.6	709.3
17.4	27737	-46.6	-81.5	1	0.03	105	41	720.9	721.2	720.9
15.2	28651	-44.4	-80.2	1	0.04	80	32	756.9	757.4	756.9
12.5	29945	-41.3	-78.3	1	0.07	69	33	810.9	811.7	810.9
11.6	30480	-41.8	-78.3	1	0.08	65	33	827.6	828.5	827.6
10.6	31065	-42.3	-78.3	1	0.08	68	38	846.3	847.3	846.4
10.0	31460	-41.7	-77.7	1	0.10	70	42	862.8	864.0	862.8
9.1	32101	-40.3	-77.3	1	0.11	76	44	891.7	893.1	891.7
8.4	32647	-40.5	-77.5	1	0.12	82	45	911.5	913.1	911.6
7.6	33336	-35.5	-73.5	1	0.24	88	47	958.1	961.4	958.3
7.4	33528	-35.0	-73.3	1	0.26	90	47	967.9	971.4	968.0
7.0	33910	-33.9	-72.9	1	0.29	85	43	987.5	991.5	987.7
6.8	34138	-34.2	-73.2	1	0.28	85	48	995.5	999.5	995.7
6.7	34217	-34.3	-73.3	1	0.28			998.3	1002.3	998.4

Station information and sounding indices

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Station identifier: BMX
Station number: 72230
Observation time: 150725/0000
Station latitude: 33.16
Station longitude: -86.76
Station elevation: 178.0
Showalter index: -0.02
Lifted index: -2.19
LIFT computed using virtual temperature: -3.17
SWEAT index: 224.82
K index: 28.30
Cross totals index: 19.90
Vertical totals index: 23.90
Totals totals index: 43.80
Convective Available Potential Energy: 735.17
CAPE using virtual temperature: 979.67
Convective Inhibition: -36.50
CINS using virtual temperature: -19.77
Equilibrium Level: 200.27
Equilibrium Level using virtual temperature: 199.92
Level of Free Convection: 785.58
LFCT using virtual temperature: 815.78
Bulk Richardson Number: 49.64
Bulk Richardson Number using CAPV: 66.15
Temp [K] of the Lifted Condensation Level: 291.74
Pres [hPa] of the Lifted Condensation Level: 861.47
Mean mixed layer potential temperature: 304.45
Mean mixed layer mixing ratio: 15.94
1000 hPa to 500 hPa thickness: 5792.00
Precipitable water [mm] for entire sounding: 40.11

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