

71802 AYT Mt Pearl Observations at 12Z 24 Jan 2014

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	87									
997.0	112	-5.3	-7.6	84	2.17	250	10	268.1	274.1	268.4
996.0	120	-5.7	-10.1	71	1.79	250	10	267.8	272.8	268.1
972.6	305	-7.3	-10.6	77	1.76	250	22	268.0	272.9	268.3
935.1	610	-9.8	-11.5	88	1.71	250	30	268.4	273.2	268.7
934.0	619	-9.9	-11.5	88	1.71	250	30	268.4	273.2	268.7
925.0	694	-10.3	-13.0	81	1.53	250	33	268.8	273.1	269.0
908.0	836	-11.3	-16.0	68	1.22	247	34	269.2	272.7	269.4
898.8	914	-12.0	-16.3	71	1.20	245	35	269.2	272.7	269.4
863.4	1219	-14.8	-17.4	81	1.14	240	41	269.4	272.7	269.6
850.0	1338	-15.9	-17.8	85	1.12	245	41	269.5	272.7	269.7
829.0	1526	-17.7	-18.4	94	1.09	247	42	269.5	272.7	269.7
820.0	1608	-17.9	-21.1	76	0.87	248	43	270.1	272.7	270.3
818.0	1626	-17.9	-22.0	70	0.81	248	43	270.3	272.7	270.5
814.0	1663	-16.9	-29.9	31	0.40	248	43	271.8	273.0	271.8
804.0	1756	-16.9	-36.9	16	0.20	249	44	272.7	273.4	272.8
796.2	1829	-17.1	-39.2	13	0.16	250	44	273.2	273.8	273.3
767.0	2109	-18.1	-48.1	5	0.06	245	50	275.1	275.4	275.1
764.4	2134	-18.3	-47.3	6	0.07	245	51	275.2	275.5	275.2
749.0	2286	-19.3	-42.3	11	0.12	245	49	275.7	276.1	275.7
733.8	2438	-20.1	-33.5	29	0.31	245	46	276.4	277.4	276.4
724.0	2538	-20.7	-27.7	53	0.55	243	45	276.9	278.6	276.9
704.1	2743	-22.4	-30.2	49	0.44	240	42	277.2	278.6	277.3
700.0	2786	-22.7	-30.7	48	0.43	240	42	277.3	278.7	277.4
675.3	3048	-25.1	-32.2	52	0.38	240	39	277.5	278.8	277.6
673.0	3073	-25.3	-32.3	52	0.38	240	40	277.5	278.8	277.6
658.0	3237	-24.7	-48.7	9	0.07	238	49	280.0	280.3	280.0
620.6	3658	-25.9	-51.5	7	0.05	235	71	283.4	283.6	283.4
594.9	3962	-26.8	-53.6	6	0.04	240	73	285.8	285.9	285.8
570.2	4267	-27.6	-55.6	5	0.04	245	84	288.2	288.4	288.3
523.8	4877	-29.4	-59.7	4	0.02	245	113	293.2	293.3	293.2
511.0	5055	-29.9	-60.9	3	0.02	245	112	294.7	294.8	294.7
500.0	5210	-30.9	-61.9	3	0.02	245	112	295.3	295.4	295.3
450.0	5948	-35.5	-54.5	13	0.05	241	131	298.6	298.8	298.6
448.0	5979	-35.3	-45.3	35	0.15	241	132	299.2	299.7	299.2
440.5	6096	-35.5	-41.7	53	0.22	240	135	300.4	301.2	300.5
438.0	6136	-35.5	-40.5	60	0.26	240	135	300.9	301.8	300.9
400.0	6760	-39.5	-45.5	53	0.16	240	140	303.6	304.2	303.6
386.0	7004	-40.7	-47.7	47	0.13	240	142	305.1	305.6	305.1
361.0	7457	-44.5	-46.4	81	0.16	240	146	305.9	306.5	305.9
354.0	7588	-45.9	-49.2	69	0.12	240	147	305.8	306.2	305.8
352.3	7620	-45.7	-51.1	54	0.10	240	147	306.5	306.9	306.5
351.0	7645	-45.5	-52.5	45	0.08	240	147	307.0	307.4	307.1
347.0	7721	-45.7	-59.7	19	0.04	240	147	307.8	307.9	307.8
300.0	8680	-51.7	-67.7	13	0.01	240	150	312.4	312.4	312.4
296.0	8767	-52.5	-67.5	15	0.01	240	149	312.4	312.5	312.4
279.1	9144	-53.9	-71.1	10	0.01	240	145	315.7	315.7	315.7
266.0	9453	-55.1	-74.1	8	0.01	240	140	318.3	318.4	318.3
250.0	9850	-54.1	-75.1	6	0.01	240	136	325.5	325.5	325.5
220.0	10668	-53.6	-81.5	2	0.00	240	122	338.3	338.3	338.3
200.0	11280	-53.3	-86.3	1	0.00	240	123	348.2	348.2	348.2

175.0	12142	-52.1	-85.1	1	0.00	238	121	363.7	363.7	363.7
150.0	13130	-56.1	-88.1	1	0.00	235	119	373.2	373.2	373.2
107.2	15240	-59.7	-90.9	1	0.00	245	112	403.9	403.9	403.9
100.0	15680	-60.5	-91.5	1	0.00	240	110	410.6	410.6	410.6
85.2	16671	-63.7	-93.7	1	0.00	233	111	423.3	423.3	423.3
79.8	17069	-64.7	-94.2	1	0.00	230	111	429.2	429.2	429.2
73.8	17548	-65.9	-94.9	1	0.00	236	110	436.4	436.4	436.4
70.0	17870	-65.3	-94.3	1	0.00	240	110	444.4	444.4	444.4
65.5	18275	-64.3	-94.3	1	0.00	244	108	455.0	455.1	455.0
53.5	19507	-64.9	-94.9	1	0.00	255	103	480.7	480.7	480.7
50.0	19920	-65.1	-95.1	1	0.00	250	101	489.7	489.7	489.7
47.0	20297	-65.3	-94.3	1	0.00	248	100	497.9	497.9	497.9
43.7	20726	-67.0	-95.5	1	0.00	245	99	504.2	504.2	504.2
39.5	21336	-69.4	-97.2	1	0.00	245	101	513.2	513.2	513.2
30.3	22902	-75.5	-101.5	1	0.00	250	109	536.8	536.8	536.8
30.0	22960	-75.3	-101.3	1	0.00	250	109	538.8	538.8	538.8
29.0	23165	-74.9	-101.1	1	0.00	255	116	545.4	545.4	545.4
27.5	23470	-74.3	-100.7	1	0.00	245	101	555.2	555.2	555.2
24.8	24079	-73.0	-100.0	1	0.00	255	101	575.5	575.5	575.5
22.4	24689	-71.8	-99.3	1	0.00	245	106	596.5	596.5	596.5
20.0	25340	-70.5	-98.5	1	0.00	255	105	619.7	619.7	619.7
18.0	25967	-69.5	-97.5	1	0.00	262	102	641.8	641.8	641.8
17.3	26213	-70.8	-98.8	1	0.00	265	101	645.4	645.4	645.4
17.2	26237	-70.9	-98.9	1	0.00	265	102	645.7	645.7	645.7
16.4	26518	-69.7	-98.0	1	0.00	265	118	658.4	658.4	658.4
14.8	27127	-67.0	-96.1	1	0.00	265	121	686.5	686.6	686.5
14.4	27307	-66.2	-95.5	1	0.00	265	121	695.1	695.1	695.1
14.1	27432	-65.7	-95.1	1	0.00	270	118	701.1	701.1	701.1
13.4	27737	-64.3	-94.1	1	0.00	275	115	715.9	715.9	715.9
13.1	27877	-63.7	-93.7	1	0.00			722.8	722.8	722.8

Station information and sounding indices

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Station identifier: AYT
Station number: 71802
Observation time: 140124/1200
Station latitude: 47.52
Station longitude: -52.78
Station elevation: 112.0
Showalter index: 18.76
Lifted index: 18.55
LIFT computed using virtual temperature: 18.54
SWEAT index: 194.02
K index: -10.80
Cross totals index: 13.10
Vertical totals index: 15.00
Totals totals index: 28.10
Convective Available Potential Energy: 0.10
CAPE using virtual temperature: 0.15
Convective Inhibition: -15.74
CINS using virtual temperature: -14.38
Equilibrium Level: 827.06
Equilibrium Level using virtual temperature: 826.97
Level of Free Convection: 836.36
LFCT using virtual temperature: 837.92
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00

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Temp [K] of the Lifted Condensation Level: 261.79
Pres [hPa] of the Lifted Condensation Level: 920.29
Mean mixed layer potential temperature: 268.09
Mean mixed layer mixing ratio: 1.75
1000 hPa to 500 hPa thickness: 5123.00
Precipitable water [mm] for entire sounding: 3.29

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)
