

74389 GYX Gray Observations at 00Z 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	85									
995.0	125	21.8	15.8	69	11.47	355	3	295.4	328.6	297.4
989.0	178	21.2	14.2	64	10.39	340	4	295.3	325.4	297.1
974.6	305	20.2	12.7	62	9.53	305	6	295.5	323.2	297.2
961.0	427	19.2	11.2	60	8.76	311	6	295.7	321.3	297.2
940.8	610	17.5	10.6	64	8.62	320	6	295.8	321.0	297.3
925.0	756	16.2	10.2	68	8.51	325	7	295.9	320.8	297.4
907.9	914	14.8	9.8	72	8.45	325	7	296.0	320.7	297.5
890.0	1083	13.2	9.4	78	8.38	319	11	296.0	320.6	297.5
875.7	1219	12.2	7.9	75	7.70	315	15	296.3	319.0	297.7
860.0	1370	11.0	6.3	73	7.01	309	15	296.7	317.4	297.9
850.0	1468	10.0	6.3	78	7.09	305	15	296.6	317.5	297.9
834.0	1626	8.6	6.3	85	7.23	303	17	296.8	318.1	298.0
813.6	1829	7.1	4.7	85	6.62	300	19	297.3	316.9	298.5
784.0	2134	4.9	2.3	83	5.79	290	15	298.0	315.4	299.1
778.0	2197	4.4	1.8	83	5.63	291	16	298.2	315.1	299.2
769.0	2292	4.0	2.0	87	5.78	293	17	298.8	316.1	299.8
760.0	2388	3.8	-0.2	75	4.99	294	18	299.5	314.7	300.4
755.3	2438	3.4	-0.5	75	4.91	295	19	299.7	314.6	300.6
727.3	2743	1.3	-2.3	77	4.47	310	18	300.6	314.3	301.4
700.3	3048	-0.9	-4.1	79	4.06	285	21	301.4	314.0	302.2
700.0	3051	-0.9	-4.1	79	4.05	285	21	301.5	314.0	302.2
675.0	3341	-2.9	-5.5	82	3.78	280	17	302.4	314.1	303.1
674.0	3353	-2.8	-5.8	80	3.69	280	17	302.6	314.1	303.2
666.0	3448	-2.3	-8.3	63	3.08	286	16	304.2	314.0	304.8
662.0	3496	-0.9	-15.9	31	1.68	289	15	306.3	311.9	306.6
655.0	3580	-1.1	-20.1	22	1.19	295	14	307.0	311.0	307.2
648.6	3658	-1.7	-16.8	30	1.59	300	13	307.2	312.5	307.5
637.0	3802	-2.7	-10.7	54	2.67	296	14	307.6	316.3	308.1
611.0	4132	-5.3	-11.3	63	2.65	288	16	308.3	316.9	308.8
600.5	4267	-5.7	-17.3	40	1.65	285	17	309.4	314.9	309.7
596.0	4327	-5.9	-19.9	32	1.33	285	17	309.8	314.4	310.1
588.0	4433	-6.7	-17.7	41	1.63	286	18	310.1	315.6	310.4
583.0	4499	-7.1	-18.1	41	1.59	287	19	310.4	315.8	310.7
578.0	4566	-7.5	-24.5	24	0.91	287	19	310.7	313.9	310.9
572.0	4648	-8.1	-25.1	24	0.88	288	19	310.9	314.0	311.1
567.0	4716	-8.5	-32.5	12	0.44	289	20	311.2	312.8	311.3
562.0	4784	-8.9	-17.9	48	1.67	289	20	311.5	317.2	311.9
558.0	4840	-9.5	-16.5	57	1.90	290	21	311.5	317.8	311.8
555.3	4877	-9.6	-17.1	54	1.81	290	21	311.8	317.9	312.1
553.0	4909	-9.7	-17.7	52	1.73	290	21	312.0	317.9	312.4
544.0	5036	-10.3	-26.3	26	0.83	289	22	312.8	315.7	312.9
536.0	5150	-11.3	-25.3	30	0.92	288	23	312.9	316.1	313.1
517.0	5426	-13.5	-28.5	27	0.71	287	26	313.5	316.0	313.6
508.0	5560	-14.1	-38.1	11	0.28	286	27	314.4	315.4	314.4
504.0	5620	-14.5	-25.5	39	0.96	285	27	314.6	318.0	314.8
500.0	5680	-14.9	-26.9	35	0.85	285	28	314.8	317.8	315.0
499.0	5695	-15.1	-28.1	32	0.76	285	28	314.8	317.5	314.9
495.0	5756	-15.5	-23.5	50	1.17	286	28	315.0	319.1	315.2
491.0	5817	-16.1	-24.1	50	1.12	287	29	315.0	318.9	315.2
489.0	5848	-16.3	-24.3	50	1.10	287	29	315.1	319.0	315.3
485.0	5910	-16.5	-28.5	35	0.76	288	29	315.6	318.3	315.7
475.0	6066	-17.7	-30.7	31	0.63	290	30	316.0	318.3	316.1

473.1	6096	-17.9	-30.9	31	0.62	290	30	316.1	318.4	316.2
469.0	6161	-18.3	-31.3	31	0.60	289	30	316.4	318.6	316.5
456.0	6370	-19.9	-27.9	49	0.85	286	31	316.9	320.0	317.1
451.0	6452	-20.3	-29.3	44	0.75	284	31	317.4	320.2	317.6
446.0	6535	-20.9	-35.9	25	0.40	283	31	317.7	319.2	317.8
441.0	6618	-21.5	-33.5	33	0.52	281	32	318.0	319.9	318.1
436.0	6702	-22.1	-38.1	22	0.33	280	32	318.2	319.5	318.3
418.0	7010	-24.3	-37.3	29	0.37	275	33	319.3	320.7	319.4
404.0	7258	-25.9	-43.9	17	0.19	283	32	320.3	321.1	320.4
400.0	7330	-26.5	-41.5	23	0.25	285	32	320.5	321.4	320.5
399.0	7348	-26.5	-40.5	25	0.28	285	32	320.7	321.8	320.8
392.0	7475	-27.5	-45.5	16	0.17	287	33	321.0	321.7	321.0
384.1	7620	-28.8	-47.1	15	0.14	290	33	321.2	321.7	321.2
366.0	7964	-31.9	-50.9	13	0.10	290	33	321.5	321.9	321.5
352.2	8230	-34.3	-50.9	17	0.10	290	33	321.8	322.2	321.8
317.0	8958	-40.9	-50.9	33	0.11	290	36	322.5	322.9	322.5
308.4	9144	-42.4	-52.4	33	0.10	290	37	322.9	323.3	322.9
300.0	9330	-43.9	-53.9	32	0.08	290	37	323.4	323.7	323.4
279.0	9814	-48.1	-58.1	30	0.05	287	37	324.1	324.3	324.1
268.8	10058	-50.3	-59.0	35	0.05	285	37	324.4	324.6	324.4
255.0	10402	-53.3	-60.3	42	0.04	285	45	324.9	325.0	324.9
250.0	10530	-53.5	-60.5	42	0.04	285	48	326.4	326.6	326.4
247.0	10608	-53.7	-60.7	42	0.04	285	50	327.2	327.4	327.2
244.7	10668	-52.0	-62.2	28	0.04	285	56	330.7	330.9	330.7
242.0	10740	-49.9	-63.9	18	0.03	284	55	334.9	335.0	334.9
238.0	10849	-49.7	-69.7	8	0.01	284	55	336.8	336.8	336.8
231.0	11045	-47.9	-73.9	3	0.01	282	53	342.4	342.4	342.4
219.0	11398	-46.5	-77.5	2	0.00	280	51	349.8	349.8	349.8
204.0	11869	-46.3	-79.3	1	0.00	276	47	357.3	357.3	357.3
200.0	12000	-46.3	-79.3	1	0.00	275	46	359.3	359.3	359.3
180.0	12694	-47.7	-82.7	1	0.00	271	51	368.0	368.0	368.0
177.1	12802	-47.7	-82.7	1	0.00	270	52	369.7	369.7	369.7
167.0	13187	-47.7	-82.7	1	0.00	276	52	375.9	376.0	375.9
162.0	13386	-48.9	-82.9	1	0.00	280	52	377.2	377.2	377.2
161.4	13411	-48.9	-82.8	1	0.00	280	52	377.7	377.7	377.7
150.0	13890	-47.9	-81.9	1	0.00	280	41	387.3	387.3	387.3
149.0	13934	-47.9	-82.9	1	0.00	280	40	388.1	388.1	388.1
137.0	14486	-50.3	-84.3	1	0.00	287	34	393.2	393.3	393.2
128.0	14931	-50.7	-84.7	1	0.00	292	28	400.2	400.2	400.2
123.0	15190	-51.5	-84.5	1	0.00	294	25	403.4	403.4	403.4
122.1	15240	-51.5	-84.6	1	0.00	295	24	404.3	404.4	404.3
116.5	15545	-51.1	-85.1	1	0.00	280	19	410.4	410.4	410.4
116.0	15572	-51.1	-85.1	1	0.00	279	19	410.9	410.9	410.9
106.0	16155	-54.3	-87.3	1	0.00	268	21	415.6	415.6	415.6
100.0	16530	-53.9	-86.9	1	0.00	260	22	423.3	423.3	423.3

Station information and sounding indices

Station identifier: GYX
 Station number: 74389
 Observation time: 150724/0000
 Station latitude: 43.90
 Station longitude: -70.25
 Station elevation: 125.0
 Showalter index: 2.95
 Lifted index: 0.08
 LIFT computed using virtual temperature: -0.16
 SWEAT index: 133.58
 K index: 28.00
 Cross totals index: 21.20

Vertical totals index: 24.90
Totals totals index: 46.10
Convective Available Potential Energy: 114.21
CAPE using virtual temperature: 163.52
Convective Inhibition: -14.43
CINS using virtual temperature: -8.00
Equilibrium Level: 487.30
Equilibrium Level using virtual temperature: 455.78
Level of Free Convection: 844.15
LFCT using virtual temperature: 852.19
Bulk Richardson Number: 6.86
Bulk Richardson Number using CAPV: 9.82
Temp [K] of the Lifted Condensation Level: 283.74
Pres [hPa] of the Lifted Condensation Level: 866.83
Mean mixed layer potential temperature: 295.57
Mean mixed layer mixing ratio: 9.37
1000 hPa to 500 hPa thickness: 5595.00
Precipitable water [mm] for entire sounding: 25.90

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)
