

72649 MPX Chanhassen 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	109									
980.0	287	27.2	21.2	70	16.47	0	0	302.1	350.9	305.1
975.0	332	26.8	18.8	62	14.21	336	1	302.1	344.3	304.7
947.0	589	24.6	17.6	65	13.55	201	9	302.4	342.7	304.9
944.7	610	24.4	17.5	65	13.50	190	10	302.4	342.6	304.9
925.0	794	22.6	16.6	69	13.01	190	12	302.4	341.1	304.8
912.3	914	21.5	16.1	71	12.78	180	12	302.5	340.6	304.9
887.0	1158	19.4	15.1	76	12.31	164	10	302.8	339.5	305.0
880.7	1219	19.4	13.6	69	11.22	160	10	303.4	337.0	305.4
880.0	1226	19.4	13.4	68	11.10	160	10	303.4	336.7	305.5
870.0	1325	21.8	-0.2	23	4.35	153	8	306.9	320.7	307.7
865.0	1375	21.8	-1.2	21	4.07	150	6	307.4	320.3	308.2
850.0	1526	20.8	-2.2	21	3.85	140	3	307.9	320.2	308.6
820.5	1829	18.5	-3.7	22	3.55	270	1	308.6	320.0	309.3
812.0	1919	17.8	-4.2	22	3.47	274	2	308.8	319.9	309.4
791.7	2134	16.0	-1.9	29	4.21	285	5	309.1	322.6	309.9
787.0	2185	15.6	-1.4	31	4.41	288	6	309.2	323.2	310.0
763.5	2438	13.2	-1.9	35	4.39	305	11	309.2	323.2	310.1
736.2	2743	10.2	-2.4	41	4.37	280	14	309.3	323.2	310.1
718.0	2953	8.2	-2.8	46	4.36	294	23	309.3	323.1	310.1
709.8	3048	7.3	-0.1	60	5.40	300	27	309.3	326.3	310.3
709.0	3057	7.2	0.2	61	5.51	300	27	309.3	326.6	310.3
705.0	3103	7.0	2.0	70	6.31	298	27	309.6	329.3	310.8
700.0	3162	6.8	1.8	70	6.27	295	27	310.0	329.6	311.2
682.0	3376	6.0	1.0	70	6.07	293	24	311.4	330.6	312.6
658.7	3658	4.0	0.0	75	5.85	290	19	312.3	330.9	313.4
629.0	4033	1.4	-1.3	82	5.56	281	22	313.4	331.2	314.5
610.8	4267	-0.3	-2.8	83	5.12	275	24	314.1	330.5	315.1
587.8	4572	-2.6	-4.8	85	4.58	270	29	314.9	329.8	315.8
571.0	4804	-4.3	-6.3	86	4.20	274	30	315.5	329.2	316.3
565.7	4877	-4.6	-6.6	86	4.13	275	30	316.0	329.5	316.8
515.0	5611	-7.9	-10.0	85	3.49	286	25	320.6	332.4	321.3
505.0	5763	-9.7	-11.8	85	3.08	289	24	320.2	330.6	320.8
500.0	5840	-10.5	-14.2	74	2.56	290	23	320.2	328.9	320.7
497.0	5886	-10.9	-14.6	74	2.49	291	23	320.2	328.8	320.7
483.6	6096	-12.3	-15.6	76	2.35	295	22	321.0	329.1	321.5
469.0	6330	-13.9	-16.8	79	2.20	293	30	321.9	329.5	322.3
446.2	6706	-17.2	-36.6	17	0.38	290	43	322.4	323.8	322.4
440.0	6811	-18.1	-42.1	10	0.22	287	44	322.5	323.3	322.5
439.0	6828	-18.3	-42.3	10	0.21	287	44	322.4	323.3	322.5
416.0	7229	-18.9	-44.9	8	0.17	277	48	326.7	327.3	326.7
400.0	7520	-20.7	-45.7	9	0.16	270	51	328.0	328.7	328.0
394.6	7620	-21.3	-46.6	8	0.15	265	52	328.4	329.1	328.5
377.0	7957	-23.5	-49.5	7	0.11	262	58	329.9	330.4	329.9
363.2	8230	-24.4	-53.7	5	0.07	260	62	332.2	332.5	332.2
356.0	8376	-24.9	-55.9	4	0.06	261	62	333.5	333.7	333.5
340.0	8709	-27.9	-57.9	4	0.05	263	64	333.8	334.0	333.8
319.9	9144	-30.9	-59.5	4	0.04	265	65	335.5	335.6	335.5
300.0	9600	-34.1	-61.1	5	0.03	270	71	337.2	337.4	337.2
283.0	10006	-36.7	-63.7	4	0.03	270	75	339.1	339.2	339.1
262.0	10534	-41.5	-66.5	5	0.02	270	79	339.6	339.7	339.6
250.0	10850	-43.7	-67.7	5	0.02	270	82	341.0	341.0	341.0
226.0	11521	-48.1	-70.1	6	0.01	272	84	344.2	344.3	344.2

209.0	12034	-50.1	-73.1	5	0.01	274	86	348.9	348.9	348.9
204.0	12192	-51.2	-73.7	5	0.01	275	86	349.6	349.6	349.6
203.0	12223	-51.4	-73.8	5	0.01	275	86	349.7	349.7	349.7
200.0	12320	-52.1	-74.1	5	0.01	270	86	350.1	350.1	350.1
197.0	12418	-53.1	-75.1	5	0.01	271	86	350.0	350.1	350.0
176.8	13106	-56.9	-78.9	5	0.00	275	83	354.7	354.7	354.7
176.0	13137	-57.1	-79.1	5	0.00	275	82	354.9	354.9	354.9
171.0	13319	-57.1	-79.1	5	0.00	277	77	357.9	357.9	357.9
157.0	13855	-59.9	-81.9	4	0.00	283	63	361.9	361.9	361.9
152.9	14021	-59.6	-83.0	3	0.00	285	59	365.2	365.2	365.2
151.0	14099	-59.5	-83.5	3	0.00	282	54	366.7	366.7	366.7
150.0	14140	-59.9	-82.9	3	0.00	280	52	366.7	366.7	366.7
145.6	14326	-60.9	-83.4	4	0.00	270	44	368.1	368.1	368.1
132.0	14929	-64.1	-85.1	4	0.00	275	54	372.8	372.9	372.8
128.0	15117	-64.5	-85.5	4	0.00	275	49	375.4	375.4	375.4
125.5	15240	-63.8	-84.8	4	0.00	275	46	378.8	378.8	378.8
125.0	15262	-63.7	-84.7	4	0.00	275	46	379.4	379.4	379.4
119.3	15545	-64.8	-85.8	4	0.00	270	50	382.4	382.4	382.4
117.0	15666	-65.3	-86.3	4	0.00	278	44	383.7	383.7	383.7
116.0	15718	-63.5	-85.5	4	0.00	281	41	388.0	388.0	388.0
113.5	15850	-63.3	-85.3	4	0.00	290	35	390.8	390.8	390.8
112.0	15934	-63.1	-85.1	4	0.00	290	29	392.6	392.6	392.6
111.0	15989	-62.1	-85.1	3	0.00	290	25	395.5	395.5	395.5
108.1	16154	-62.7	-85.4	3	0.00	290	13	397.5	397.5	397.5
101.0	16569	-64.1	-86.1	4	0.00	264	23	402.5	402.5	402.5
100.0	16630	-63.3	-85.3	4	0.00	260	25	405.2	405.2	405.2
97.2	16806	-59.7	-84.7	3	0.00	268	24	415.5	415.5	415.5
88.7	17374	-61.3	-85.0	3	0.00	295	21	423.2	423.2	423.2
85.0	17642	-62.1	-85.1	3	0.00	49	3	426.8	426.9	426.8
84.5	17678	-61.9	-85.0	3	0.00	65	1	428.0	428.1	428.0
77.0	18259	-58.1	-84.1	2	0.00	311	15	447.4	447.4	447.4
76.7	18288	-58.1	-84.1	2	0.00	305	16	447.9	447.9	447.9
73.0	18593	-58.6	-84.6	2	0.00	15	2	453.2	453.2	453.2
72.1	18674	-58.7	-84.7	2	0.00	358	3	454.6	454.6	454.6
70.0	18860	-58.1	-84.1	2	0.00	320	4	459.7	459.8	459.7
57.9	20059	-55.9	-83.9	2	0.01	55	11	490.3	490.4	490.3
57.4	20117	-56.1	-84.1	2	0.01	60	11	491.1	491.1	491.1
55.7	20304	-56.9	-84.9	2	0.01	42	8	493.5	493.5	493.5
52.1	20726	-55.3	-84.0	2	0.01	0	0	506.7	506.8	506.7
50.9	20876	-54.7	-83.7	2	0.01	29	2	511.5	511.6	511.5
50.0	20990	-55.3	-83.3	2	0.01	50	4	512.7	512.8	512.7
47.8	21276	-56.3	-84.3	2	0.01	54	2	517.0	517.0	517.0
47.4	21336	-56.1	-84.2	2	0.01	55	2	518.9	519.0	518.9
41.1	22250	-52.3	-82.4	1	0.01	70	11	549.6	549.7	549.6
35.8	23143	-48.7	-80.7	1	0.02	75	21	581.2	581.3	581.2
35.7	23165	-48.8	-80.7	1	0.02	75	21	581.5	581.7	581.5
34.0	23470	-49.9	-80.7	1	0.02	95	16	586.4	586.6	586.4
32.9	23695	-50.7	-80.7	2	0.02	114	15	590.0	590.2	590.1
32.5	23774	-50.3	-80.6	2	0.02	120	14	593.0	593.2	593.0
31.0	24079	-48.9	-80.2	1	0.02	90	12	604.8	605.0	604.8
30.0	24300	-47.9	-79.9	1	0.02	80	13	613.4	613.6	613.5
29.6	24384	-47.7	-79.7	1	0.02	70	17	616.1	616.4	616.1
28.7	24593	-47.3	-79.3	1	0.03	78	17	622.9	623.1	622.9
25.8	25298	-48.0	-80.0	1	0.03	105	16	640.1	640.4	640.2
23.3	25970	-48.7	-80.7	1	0.03	97	21	657.0	657.3	657.0
21.4	26518	-47.7	-79.7	1	0.03	90	25	675.7	676.0	675.7
20.0	26980	-46.9	-78.9	1	0.04	105	22	691.8	692.2	691.9
19.6	27127	-46.4	-78.9	1	0.04	105	21	697.7	698.1	697.7
18.7	27432	-45.5	-78.9	1	0.04	85	18	709.9	710.4	709.9
18.2	27607	-44.9	-78.9	1	0.04	85	21	717.0	717.5	717.0
17.9	27737	-44.9	-78.9	1	0.04	85	24	720.9	721.4	721.0

16.3	28346	-45.0	-79.0	1	0.05	110	24	739.6	740.1	739.6
15.6	28651	-45.1	-79.1	1	0.05	90	15	749.1	749.7	749.1
15.5	28680	-45.1	-79.1	1	0.05	90	15	750.0	750.6	750.0
11.9	30480	-39.9	-76.2	1	0.10	75	28	827.9	829.1	827.9
11.4	30785	-39.0	-75.8	1	0.11	55	33	841.8	843.2	841.8
11.1	30941	-38.5	-75.5	1	0.12			849.0	850.5	849.0

Station information and sounding indices

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Station identifier: MPX
Station number: 72649
Observation time: 150726/0000
Station latitude: 44.85
Station longitude: -93.56
Station elevation: 287.0
Showalter index: 5.87
Lifted index: -4.90
LIFT computed using virtual temperature: -5.32
SWEAT index: 28.98
K index: 24.10
Cross totals index: 8.30
Vertical totals index: 31.30
Totals totals index: 39.60
Convective Available Potential Energy: 989.38
CAPE using virtual temperature: 1105.68
Convective Inhibition: -152.72
CINS using virtual temperature: -83.56
Equilibrium Level: 242.37
Equilibrium Level using virtual temperature: 241.88
Level of Free Convection: 740.82
LFCT using virtual temperature: 762.84
Bulk Richardson Number: 39.85
Bulk Richardson Number using CAPV: 44.54
Temp [K] of the Lifted Condensation Level: 289.45
Pres [hPa] of the Lifted Condensation Level: 858.90
Mean mixed layer potential temperature: 302.31
Mean mixed layer mixing ratio: 13.79
1000 hPa to 500 hPa thickness: 5731.00
Precipitable water [mm] for entire sounding: 32.67

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