



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

AUGUST / AOÛT

19 89

AT/A WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) MÉTRES (NMM)		STANDARD TIME USED: CENTRAL									
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE	
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE REFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)		TOTAL PRECIP. TOTALE	AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE		MAX 2 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX SUR 2 MIN & DIRECTION
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%		mm	cm	mm	cm	km/h		km/h	HOURS HEURES
1	38.7	20.7	29.7		24.7	11.7	74	31						13.3	S	S 26*	12.8
2	35.3	21.2	28.3		23.3	10.3	92	46	1	8.6		8.6		17.5	S	SSE28*	12.0
3	31.4	18.4	24.9		19.9	6.9	94	62	1	9.8		9.8		10.0	W	WSW22	10.4
4	27.9	15.9	21.9		16.9	3.9	87	41						15.6	W	WSW26	12.3
5	17.0	10.8	13.9	4.1	8.9		96	64		2.0		2.0		22.2	W	NNW33	1.4
6	24.6	6.7	15.7	2.3	10.7		95	41						17.4	NNW	NNW31	11.9
7	26.2	9.1	17.7	0.3	12.7		88	34						13.0	NW	NW 20	13.8
8	28.3	12.9	20.6		15.6	2.6	81	34						10.2	WNW	NW 17*	13.7
9	31.3	12.5	21.9		16.9	3.9	73	25						9.3	SSW	SE 13*	14.0
10	33.7	14.0	23.9		18.9	5.9	76	19						10.8	S	SE 19	12.5
11	34.2	16.7	25.5		20.5	7.5	72	31						10.1	S	S 17	9.6
12	32.3	18.5	25.4		20.4	7.4	89	37	1	2.6		2.6		13.8	S	SSW22*	10.7
13	20.4	13.8	17.1	0.9	12.1		85	71	1	TR.		TR.		20.3	N	NNE28	0.0
14	22.3	10.3	16.3	1.7	11.3		84	43		TR.		TR.		10.2	N	N 15*	7.1
15	25.5	6.0	15.8	2.2	10.8		91	34						3.3	CALM	E 11	13.8
16	28.0	9.5	18.8		13.8	0.8	82	33						10.4	SSE	SSE19*	12.9
17	29.5	14.1	21.8		16.8	3.8	78	44		0.2		0.2		23.8	SSE	S 33	3.7
18	25.0	18.0	21.5		16.5	3.5	94	56	1	35.6		35.6		23.2	S	SSE37	3.9
19	20.5	11.0	15.8	2.2	10.8		96	74		5.6		5.6		17.9	NNW	NW 31	0.6
20	15.5	9.2	12.4	5.6	7.4		86	67						11.8	NNW	NNW22*	0.2
21	23.0	8.3	15.7	2.3	10.7		97	61		0.4		0.4		11.6	S	S 24*	5.1
22	27.4	10.8	19.1		14.1	1.1	98	53						8.3	ESE	ENE17	12.0
23	29.6	16.2	22.9		17.9	4.9	87	52						19.5	SSE	SSE28	11.8
24	30.5	17.9	24.2		19.2	6.2	84	55						26.5	SSE	SSE35*	12.7
25	26.0	18.2	22.1		17.1	4.1	86	65		TR.		TR.		27.0	S	S 33	4.9
26	23.8	14.1	19.0		14.0	1.0	94	46		TR.		TR.		18.6	W	W 28	11.6
27	23.4	9.9	16.7	1.3	11.7		80	37						10.1	WSW	SSW19	7.7
28	21.6	14.0	17.8	0.2	12.8		87	62	1	5.0		5.0		19.3	SE	SE 31	3.4
29	16.3	8.5	12.4	5.6	7.4		94	71		6.8		6.8		24.0	NW	WNW37	0.5
30	18.8	5.1	12.0	6.0	7.0		97	61						5.0	SSE	SSW11	5.1
31	20.4	9.1	14.8	3.2	9.8		93	50						13.8	NNE	N 26	6.5
MEAN MOYENNE	26.1	12.9	19.5	TOTAL 37.9	TOTAL 450.6	TOTAL 85.5	87	48	TOT 6	TOTAL 76.6	TOTAL 0.0	TOTAL 76.6		15.1	PREVAILING DIRECTION DOMINANTE S	MAXIMALE SSE37	TOTAL 258.6
NORMAL NORMALE	24.7	11.8	18.3	43.3	411.7	52.0			6	75.2	0.0	75.2		16.4	S		283.3

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS								DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES					DAYS WITH SNOWFALL JOURS AVEC CHÛTE DE NEIGE				
BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	5.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 OR MORE OU PLUS
TOTAL FOR MONTH TOTAL DU MOIS	37.9	17.4	43.3	TOTAL FOR MONTH TOTAL DU MOIS	450.6	470.0	411.7	10	8	8	1	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	38.3	25.3	64.4	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1636.0	1853.2	1473.6										

WINNIPEG INTERNATIONAL AIRPORT
AEROPORT INTERN. DE WINNIPEG

DRY-BULB TEMPERATURES AT:
TEMPÉRATURES DU THERMOMETRE SEC A:

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	238	237	229	220	207	207	212	226	247	274	299	326	327	341	355	356	370	376	370	340	307	284	284	276
2	275	260	254	239	237	228	231	246	269	270	293	307	316	319	345	333	339	345	332	317	245	238	234	234
3	227	224	217	218	212	209	212	225	239	260	268	284	296	289	220	209	217	248	250	240	221	208	201	187
4	190	182	176	171	163	163	170	186	203	232	254	256	258	266	251	261	248	251	248	225	203	190	180	170
5	168	157	151	154	156	161	152	144	140	135	128	130	133	132	132	136	145	159	162	154	139	108	122	131
6	125	93	81	71	67	67	74	123	158	181	203	213	216	213	230	215	228	231	228	203	167	152	140	128
7	120	105	100	104	106	91	112	135	169	202	226	233	242	247	248	250	247	253	241	226	200	201	176	174
8	148	151	133	138	131	132	134	153	184	213	237	253	260	275	277	272	275	269	269	247	215	199	185	162
9	160	154	160	150	141	132	131	156	187	227	261	280	290	295	305	300	307	301	295	270	248	212	204	199
10	194	189	184	186	161	142	151	173	213	246	279	299	317	320	328	324	314	309	305	262	238	216	214	222
11	206	202	194	172	170	174	180	192	225	255	280	297	305	309	325	320	315	306	295	244	258	256	248	240
12	237	239	226	206	194	213	212	203	210	221	242	261	285	296	308	308	308	302	275	262	241	216	197	205
13	185	202	201	191	184	183	177	178	187	186	178	174	175	176	176	173	166	164	158	153	146	143	142	140
14	138	134	137	134	132	131	127	134	138	146	170	179	184	190	199	202	215	212	208	193	166	139	108	105
15	103	105	84	78	85	64	60	100	139	173	197	212	215	230	245	240	248	247	243	223	200	179	165	119
16	127	113	131	116	112	104	101	141	179	201	221	240	255	252	261	271	271	267	260	239	207	198	186	194
17	185	182	176	165	158	144	147	161	182	213	240	253	256	263	286	274	268	241	275	270	254	239	239	234
18	230	234	198	188	184	180	190	199	203	209	221	195	183	195	231	236	240	221	205	195	190	190	187	186
19	185	184	186	184	181	174	180	183	188	189	184	198	193	175	173	174	170	163	155	147	126	123	118	115
20	111	105	100	98	95	95	93	103	106	117	125	132	140	148	146	148	148	155	151	148	144	144	139	139
21	139	120	108	102	89	84	89	115	127	149	176	188	197	214	215	215	212	209	205	190	183	176	174	158
22	143	146	136	126	120	116	117	158	178	197	218	228	240	250	259	266	267	269	257	246	226	216	211	192
23	194	190	181	174	172	166	171	192	210	227	248	263	276	281	287	295	290	286	273	262	250	241	228	219
24	217	211	208	205	194	182	182	188	202	220	234	250	262	277	287	297	291	291	281	270	253	242	233	224
25	216	208	203	194	187	187	184	187	197	196	230	218	218	242	250	248	248	245	234	226	220	212	208	206
26	205	207	204	197	180	178	167	176	188	208	214	211	220	226	230	230	222	210	207	192	177	169	151	143
27	141	122	118	114	114	103	103	122	143	173	202	212	224	228	229	228	227	228	223	200	193	186	174	166
28	162	166	162	163	165	168	172	170	176	180	185	187	191	188	199	208	203	174	190	182	169	158	161	156
29	145	131	133	138	141	140	136	139	142	135	134	130	134	137	144	139	159	148	143	137	124	98	92	91
30	85	72	72	71	51	69	67	77	108	129	130	158	163	178	177	175	173	175	172	164	155	157	125	119
31	124	113	120	130	116	115	115	124	140	148	162	184	178	185	194	193	188	183	180	160	116	118	116	97

Note/Avis: 1. Climatological Day/Journée climatologique 0001 C.S.T. - 0000 C.S.T.
 2. Hours are C.S.T./Les heures sont a 1'heure normale de la localité
 3. Unit/Unité = 0.1°C

MONTH: AUGUST 1989
MOIS: AOÛT 1989

WINNIPEG INTERNATIONAL AIRPORT
AEROPORT INTERN. DE WINNIPEG

HOURLY DEW POINT TEMPERATURE AT:
TEMPERATURE DE ROSEE HORAIRE A:

Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	160	147	149	152	154	157	162	170	179	181	176	177	191	193	170	177	188	175	175	158	194	180	163	162
2	158	167	172	174	179	185	189	192	196	195	203	210	207	207	212	210	212	218	215	217	217	221	222	215
3	207	207	200	200	200	197	193	203	207	214	216	222	221	216	164	161	167	179	171	164	161	161	161	160
4	157	152	153	149	144	133	120	122	128	139	142	136	139	123	118	118	116	118	112	104	108	121	130	131
5	133	138	139	142	144	150	145	136	131	120	113	107	99	96	97	98	100	92	94	86	88	90	96	90
6	91	74	63	58	53	55	57	92	95	104	103	92	96	81	98	102	101	92	88	91	96	92	101	102
7	94	82	80	84	82	69	75	107	138	134	126	114	102	91	83	82	82	88	88	102	88	86	87	86
8	93	101	96	81	77	98	98	104	110	124	123	118	113	108	108	101	101	98	99	124	118	116	111	114
9	116	103	95	91	86	85	84	87	101	114	116	88	87	83	86	75	87	90	94	107	106	107	104	104
10	104	100	97	104	100	98	98	101	117	124	140	137	106	81	65	63	61	65	79	95	102	108	105	120
11	122	126	123	120	123	120	122	127	138	145	149	144	149	145	140	134	126	130	145	149	145	154	160	159
12	148	149	153	161	155	159	160	166	167	172	172	171	179	166	146	149	146	161	156	154	172	170	170	176
13	166	163	145	153	156	153	151	152	150	146	143	141	140	138	137	135	130	124	117	112	107	104	104	103
14	101	102	99	91	96	93	92	91	92	98	108	101	97	92	91	85	81	83	82	79	55	61	68	73
15	78	77	66	60	72	43	39	86	106	97	108	99	91	93	93	88	88	88	77	81	59	54	55	60
16	49	53	50	61	71	73	70	98	101	100	106	103	104	93	92	96	92	91	92	103	103	104	107	112
17	109	109	110	109	108	106	106	110	119	127	130	131	138	147	151	151	153	176	166	155	154	153	150	145
18	142	142	166	169	167	163	157	149	154	156	156	163	170	175	183	185	193	182	166	165	170	170	169	173
19	176	176	176	176	175	169	173	173	173	166	163	160	151	136	131	129	124	118	109	110	103	101	91	88
20	84	77	78	75	74	71	73	74	74	80	81	81	88	92	91	90	97	99	95	97	102	102	104	102
21	103	95	99	93	84	80	81	98	108	113	121	118	129	134	133	135	142	143	142	151	151	149	148	143
22	133	136	127	119	111	109	111	145	150	160	166	170	172	170	163	168	161	164	166	160	157	160	157	158
23	152	148	146	144	145	142	142	149	159	167	175	173	181	183	180	184	182	182	176	177	165	156	150	150
24	154	153	153	153	151	150	151	153	159	166	173	182	191	195	198	200	194	189	182	179	176	174	172	167
25	166	159	152	146	145	145	146	147	151	155	169	167	166	173	179	178	181	182	179	179	179	181	179	181
26	182	183	184	179	162	166	153	166	139	110	114	115	121	117	113	108	105	102	103	98	90	86	83	85
27	84	80	75	73	73	69	73	79	92	105	110	93	97	92	84	76	86	92	109	116	113	115	114	117
28	118	124	127	122	117	119	119	123	122	118	110	113	130	133	144	149	153	152	160	129	113	105	103	105
29	106	110	112	130	131	127	126	129	129	123	125	121	117	115	113	103	107	100	98	102	98	81	79	80
30	74	66	65	64	45	62	61	68	95	101	105	98	97	110	109	106	99	103	108	107	104	111	108	106
31	105	98	107	104	103	102	102	100	107	103	100	108	99	108	107	91	85	84	91	99	86	87	91	79

Note/Avis: 1. Climatological Day/Journée climatologique 0001 C.S.T. - 0000 C.S.T.
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 3. Unit/Unite = 0.1°C

CLIMATOLOGICAL SUMMARY FOR AUGUST 1989AT WINNIPEG, MANITOBA

August precipitation was about normal. The total measured was 76.6 mm (normal 75.2 mm). Temperatures averaged above normal, with a mean of 19.5° compared to the normal 18.3°. The mean maximum was 26.1° (normal 24.7°) and the mean minimum was 12.9° (normal 11.8°). The highest reading was 38.7° on the 1st and the lowest, 5.1° on the 30th.

Sunshine was below normal, 258.5 hours compared to 283.3 while the winds were lighter than usual, averaging 15.1 km/h compared to the normal 16.4.

DAILY WEATHER SUMMARY FOR AUGUST 1989AT WINNIPEG, MANITOBA

1. Sunny. Temperatures well above normal. Winds moderate becoming light in the evening.
2. Sunny with increasing cloud in the afternoon and thunder and rainshowers in the evening. Temperatures well above normal. Winds moderate occasionally gusting strong in the afternoon and evening, reducing to light later in the evening.
3. Mostly cloudy with thundershowers, clearing in the evening. Temperatures above normal. Winds light.
4. Sunny becoming cloudy in the afternoon. Temperatures above normal. Winds light becoming moderate with gusts in the afternoon.
5. Cloudy with rainshowers and fog. Temperatures above normal. Winds moderate with gusts becoming light in the evening.
6. Sunny periods throughout the day. Temperatures below normal. Winds light becoming moderate with gusts early afternoon, to light in the evening.
7. Sunny. Temperatures below normal. Winds light.
8. Sunny. Temperatures slightly below normal. Winds light.
9. Sunny. Temperatures above normal. Winds light.
10. Sunny. Temperatures above normal. Winds light.
11. Sunny, becoming cloudy in the late afternoon. Temperatures above normal. Winds light.
12. Cloudy with thundershowers in the morning becoming sunny later in the day. Temperatures above normal. Winds light.
13. Cloudy. Temperatures above normal. Winds moderate becoming light in the evening.
14. Cloudy with very light drizzle, sunny in the afternoon. Temperatures below normal. Winds light.
15. Sunny. Temperatures below normal. Winds light.
16. Sunny. Temperatures slightly below normal. Winds light.
17. Sunny becoming cloudy with showers in the afternoon. Temperatures above normal. Winds light becoming moderate with gusts.
18. Cloudy with thundershowers. Temperatures above normal. Winds moderate with gusts.
19. Cloudy, light rain in the early morning. Temperatures above normal. Winds light to moderate near noon.
20. Cloudy. Temperatures below normal. Winds light.
21. Mainly cloudy. A few rainshowers in the afternoon. Temperatures below normal. Winds light.
22. Sunny. Temperatures above normal. Winds light.
23. Sunny. Temperatures above normal. Winds light becoming moderate with gusts near noon.
24. Sunny. Temperatures above normal. Winds moderate with gusts.
25. Cloudy with a few sunny periods. Temperatures above normal. Winds moderate with strong gusts.
26. Cloudy early morning becoming sunny. Temperatures above normal. Winds moderate with strong gusts.
27. Sunny in the morning becoming cloudy in the afternoon. Temperatures near normal. Winds light.
28. Cloudy with a thundershower in the afternoon. Temperatures above normal. Winds light becoming moderate with gusts.
29. Cloudy and rainshowers. Temperatures below normal. Winds moderate with strong gusts becoming light in the evening.
30. Cloudy with fog and smoke. Temperatures below normal. Winds light.
31. Sunny with some cloudy periods. Temperatures slightly below normal. Winds light except for moderate around mid-day.