

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: JULY / JUILLET 19 87  
 AT/A: WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) MÈTRES (NMM)		STANDARD TIME USED HEURE NORMALE UTILISÉE: CENTRAL									
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	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 RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. 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	km/h		km/h			
1	22.3	13.6	18.0		13.0		100	57	1	10.6	10.6	15.8	SSE	SSE28*	2.2		
2	25.2	12.4	18.8		13.8	0.8	100	43		0.3	0.3	19.0	N	NNE35	11.4		
3	26.4	9.0	17.7	0.3	12.7		93	35				10.0	S	S 20	15.6		
4	28.3	14.4	21.4		16.4	3.4	78	42				19.9	S	S 30	13.0		
5	28.3	17.9	23.1		18.1	5.1	100	58		1.8	1.8	18.4	S	S 28	11.3		
6	28.0	14.7	21.4		16.4	3.4	100	60	1	11.4	11.4	11.3	NNE	ENE30	4.9		
7	26.3	14.1	20.2		15.2	2.2	100	45				15.8	W	WSW28	14.6		
8	24.2	10.4	17.3	0.7	12.3		100	46				6.1	NW	NNW09*	14.9		
9	29.3	17.2	23.3		18.3	5.3	100	44		13.1	13.1	17.8	S	SSE28	5.1		
10	26.6	17.5	22.1		17.1	4.1	100	65		12.7	12.7	13.3	WNW	N 26	6.1		
11	18.6	12.0	15.3	2.7	10.3		100	78		2.2	2.2	20.5	N	NNW28*	0.2		
12	19.9	10.2	15.1	2.9	10.1		96	53				17.9	NNW	NNW26*	6.1		
13	22.0	9.5	15.8	2.2	10.8		99	46		TR.	TR.	7.8	WNW	NE 15*	12.2		
14	21.2	11.4	16.3	1.7	11.3		98	60		3.0	3.0	9.6	ESE	ESE20	2.7		
15	25.0	11.9	18.5		13.5	0.5	100	62		TR.	TR.	18.0	SSE	SSE30*	8.9		
16	28.7	17.7	23.2		18.2	5.2	98	65		TR.	TR.	17.8	S	S 30*	11.5		
17	24.1	14.8	19.5		14.5	1.5	100	54		TR.	TR.	12.6	N	N 20*	6.9		
18	20.3	14.8	17.6	0.4	12.6		98	70		9.4	9.4	24.7	ENE	ENE33*	0.2		
19	22.3	14.7	18.5		13.5	0.5	100	68		25.4	25.4	15.0	W	E 26*	5.6		
20	27.2	14.8	21.0		16.0	3.0	96	45				13.8	W	S 19*	12.3		
21	19.8	10.4	15.1	2.9	10.1		100	64		4.6	4.6	8.0	WNW	ENE17	4.5		
22	23.5	14.8	19.2		14.2	1.2	100	79	1	5.5	5.5	9.5	E	NNE20	1.7		
23	24.4	15.5	20.0		15.0	2.0	100	55		0.2	0.2	9.5	WNW	N 20	9.1		
24	27.5	10.9	19.2		14.2	1.2	100	45				8.0	S	SSW17	14.6		
25	28.5	16.4	22.5		17.5	4.5	87	51				10.9	W	NNE19	14.7		
26	27.5	13.1	20.3		15.3	2.3	100	43				8.8	ESE	E 20	14.0		
27	30.4	14.8	22.6		17.6	4.6	94	47				5.7	S	ESE13	14.7		
28	33.3	18.5	25.9		20.9	7.9	98	36				7.8	W	NW 17*	14.3		
29	32.2	15.7	24.0		19.0	6.0	98	40				8.8	NE	ENE19*	10.0		
30	30.0	17.4	23.7		18.7	5.7	97	50	1	9.4	9.4	10.2	SE	ENE20	3.5		
31	25.4	20.4	22.9		17.9	4.9	100	80	1	20.5	20.5	15.5	ESE	ESE39	0.0		
MEAN MOYENNE	25.7	14.2	20.0	TOTAL 13.8	TOTAL 464.5	TOTAL 75.3	98	54	TOT 5	TOTAL 130.1	TOTAL 130.1	13.1	PREVAILING S	MAXIMALE ESE39	TOTAL 266.8		
NORMAL NORMALE	25.9	13.3	19.6	21.1	453.8	71.9			8	75.9	75.9	16.0	S		315.6		

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE				
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	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
15	13	12	6	0	0	0	0	0	0



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

WINNIPEG INTERNATIONAL AIRPORT  
AÉROPORT INTERN. DE WINNIPEG

1987  
1987

JULY  
JUILLET

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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	177	167	161	169	168	163	143	138	137	143	150	163	168	174	206	205	206	191	200	213	185	168	173	164
2	151	143	136	152	154	153	151	152	146	177	199	203	208	221	230	234	245	241	235	221	227	156	143	129
3	124	122	114	92	96	91	114	146	177	194	212	226	235	248	254	262	252	257	252	250	222	204	194	189
4	181	168	157	152	147	144	150	177	203	227	245	262	275	272	270	271	277	276	255	252	235	228	219	207
5	199	206	198	189	185	179	180	183	190	213	223	243	255	263	265	278	276	276	265	262	250	238	227	192
6	183	176	170	157	157	147	149	152	165	185	203	220	238	257	264	259	271	267	241	196	191	198	191	188
7	180	180	179	175	169	163	175	182	197	209	218	229	236	247	238	243	252	252	249	236	212	195	171	158
8	141	128	119	113	111	104	123	144	162	178	192	213	211	216	222	232	234	236	226	222	212	194	185	193
9	190	184	190	188	176	175	172	186	206	211	231	255	252	260	283	290	278	267	260	252	244	193	187	184
10	184	182	182	183	180	184	184	184	198	205	227	230	242	235	253	251	232	224	222	204	189	183	184	181
11	175	168	165	160	156	152	151	154	152	149	154	174	177	174	173	170	174	166	165	155	146	132	125	120
12	120	122	122	121	120	117	116	118	119	133	142	152	161	169	170	178	179	185	184	174	158	133	115	103
13	104	99	98	103	100	105	116	130	164	180	188	200	195	200	201	218	193	203	195	194	174	153	133	135
14	125	118	115	121	125	122	131	128	148	154	152	149	158	168	174	189	207	208	193	175	167	156	146	144
15	139	134	126	126	122	120	120	134	136	151	162	192	201	221	228	240	242	232	233	232	219	211	202	206
16	212	208	200	195	188	177	180	194	211	220	244	250	252	256	254	268	277	264	245	251	236	221	210	186
17	178	176	165	161	151	151	155	174	190	208	216	226	227	229	233	228	223	222	206	200	188	183	176	170
18	166	164	167	173	175	171	172	176	180	187	199	190	188	175	173	176	164	157	159	162	158	154	149	151
19	149	149	149	150	151	153	154	150	154	165	175	181	181	185	193	195	210	218	219	215	203	173	168	166
20	165	166	172	164	170	171	173	177	196	213	239	243	251	260	263	264	264	261	258	245	220	187	162	154
21	149	134	138	134	130	106	125	149	172	183	188	191	191	186	177	178	176	173	169	167	159	157	157	155
22	165	161	155	157	160	150	151	156	158	168	173	183	195	202	210	210	215	217	228	219	202	190	177	173
23	159	164	168	167	168	165	162	162	170	184	201	212	214	228	233	233	234	230	222	222	196	182	171	173
24	155	150	125	127	112	109	122	154	199	213	225	237	241	253	259	268	250	268	264	252	232	214	204	184
25	190	181	186	179	171	166	167	182	212	240	254	264	268	273	278	264	276	269	258	244	231	214	203	193
26	189	164	140	143	134	163	169	188	206	230	241	248	251	250	253	259	265	270	261	251	231	208	193	193
27	188	180	172	176	153	150	168	205	222	240	262	270	277	287	290	293	295	294	290	280	271	245	221	215
28	216	219	208	200	201	185	196	228	249	271	285	299	304	317	309	323	328	300	310	299	281	241	216	214
29	207	198	180	178	166	162	174	208	240	260	292	310	306	308	314	314	302	312	290	279	265	263	251	208
30	204	206	215	186	203	188	214	230	246	278	294	290	292	286	278	274	246	230	222	219	220	220	208	210
31	210	204	210	220	220	220	226	227	234	219	224	227	239	247	235	236	238	244	251	251	242	239	232	225

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

**HOURLY DEW POINT TEMPERATURE AT: WINNIPEG INTERNATIONAL AIRPORT  
TEMPERATURE DE ROSEE HORAIRE A: AEROPORT INTERN. DE WINNIPEG**

**MONTH: JULY  
MOIS: JUILLET**

**1987  
1987**

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	95	92	89	86	84	89	113	126	133	143	146	158	158	162	174	176	166	160	160	166	149	151	146	146
2	144	137	133	150	152	151	145	143	145	143	135	126	123	120	108	120	107	108	108	103	115	110	91	87
3	90	81	81	77	73	73	83	101	116	112	117	108	99	88	105	124	102	88	113	122	130	130	120	115
4	110	112	115	113	104	98	103	115	128	135	140	135	142	142	130	141	137	147	155	156	160	156	156	159
5	158	153	160	170	176	178	179	183	186	194	192	189	191	196	193	191	194	191	194	196	194	197	185	182
6	177	173	168	156	157	147	149	152	165	172	176	179	180	182	190	189	185	191	203	192	182	183	178	176
7	172	176	178	174	168	163	170	164	152	141	142	131	136	133	131	127	133	127	121	135	146	152	146	143
8	134	124	115	110	110	104	114	122	113	107	112	106	107	100	107	107	118	122	124	129	122	134	144	144
9	134	136	130	130	134	138	141	150	147	153	164	154	161	156	161	156	146	152	160	166	164	187	186	184
10	184	182	182	183	180	184	184	183	189	189	193	182	174	185	187	179	194	186	188	193	176	179	180	177
11	170	165	161	160	156	152	149	149	146	141	140	147	142	142	139	140	136	130	130	124	118	122	122	115
12	113	113	113	110	108	103	97	99	94	99	104	105	104	107	104	91	96	85	100	101	101	101	96	93
13	97	93	95	96	93	103	111	122	112	97	72	90	82	103	86	107	98	115	94	103	114	113	111	120
14	118	113	109	111	110	116	127	127	141	149	143	142	144	148	142	155	130	152	144	141	138	136	135	135
15	134	133	125	125	122	120	120	128	130	141	144	157	153	161	163	172	176	175	160	160	176	170	167	161
16	161	164	163	160	160	160	160	166	171	174	187	194	185	191	197	198	208	211	209	204	194	200	189	181
17	173	169	161	160	149	149	149	159	152	146	140	136	144	136	138	141	144	141	153	145	164	167	156	153
18	156	156	160	156	154	145	138	135	134	141	142	148	144	150	148	151	153	146	146	140	142	146	149	146
19	146	149	150	151	151	153	154	150	154	165	162	166	156	149	151	158	156	158	161	163	166	160	160	157
20	158	159	160	160	161	161	163	166	177	181	164	150	140	158	142	148	138	136	147	159	162	156	145	135
21	129	123	123	119	116	105	115	130	141	133	123	133	122	138	144	149	149	155	153	154	148	145	146	148
22	149	153	155	153	154	150	151	149	156	157	161	168	177	182	190	190	191	192	191	194	195	190	177	173
23	159	164	168	167	168	165	162	162	155	158	149	146	153	142	144	155	146	134	138	131	134	136	138	126
24	129	121	117	118	111	109	122	144	119	122	148	150	149	158	146	141	155	140	146	133	153	158	163	155
25	156	155	145	143	142	140	141	154	154	166	167	175	175	163	182	176	166	182	184	177	171	161	164	163
26	159	153	140	140	133	145	150	152	159	160	134	129	131	119	121	127	138	138	142	146	143	149	142	141
27	134	138	146	151	144	141	152	163	159	173	181	175	181	181	188	185	182	170	182	190	185	184	180	185
28	183	186	182	185	191	182	190	204	207	216	202	207	201	200	200	170	158	207	221	184	191	200	194	194
29	194	188	176	176	162	147	150	161	187	194	193	187	174	164	164	168	185	187	176	170	179	175	174	181
30	179	183	182	175	174	167	188	186	176	179	179	175	179	187	193	190	206	208	202	188	185	188	200	205
31	205	202	208	205	198	198	201	203	197	201	197	206	211	218	221	229	228	229	226	226	226	226	230	224

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CLIMATOLOGICAL SUMMARY FOR JULY 1987

AT WINNIPEG, MANITOBA

The only thing normal, in July, was the temperature. Extremes were a maximum of 33.3°C on the 28th and a minimum of 9.0°C on the 3rd. Precipitation was 71% above normal at 130.1 mm. This is the most July precipitation since 1968.

The 6th was punctuated by a severe thunderstorm with at least two tornadoes in the south of the city, causing some building damage and reports of pea size hail.

Winds were slightly lighter than normal. Bright sunshine was 16% less than normal, at 266.8 hours.

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DAILY WEATHER SUMMARY FOR JULY 1987

AT WINNIPEG, MANITOBA

1. Cloudy with thundershowers. Temperatures above normal. Winds light.
2. Cloudy becoming sunny by noon. Temperatures above normal. Winds light becoming moderate with strong gusts.
3. Sunny. Temperatures above normal. Winds light.
4. Sunny. Temperatures above normal. Winds light becoming moderate with gusts.
5. Cloudy early morning with light rain showers becoming sunny. Temperatures above normal. Winds light becoming moderate with gusts.
6. Cloudy, thunderstorm in evening. Marble size hail and funnel clouds reported. Some buildings damaged, power line down and underpasses flooded. Temperatures above normal. Winds light.
7. Mainly sunny. Temperatures above normal. Winds light.
8. Sunny. Temperatures above normal. Winds light.
9. Cloudy with rain showers in the evening. Temperatures above normal. Winds light becoming moderate in the afternoon.
10. Cloudy with light rain. Temperatures above normal. Winds light.
11. Cloudy with some rain showers. Temperatures below normal. Winds light becoming moderate.
12. Cloudy becoming sunny in the afternoon. Temperatures below normal. Winds light becoming moderate.
13. Sunny. Temperatures near normal. Winds light.
14. Cloudy with a few rain showers. Temperatures below normal. Winds light.
15. Sunny with some cloudy periods with very light rain showers. Temperatures above normal. Winds light becoming moderate in the afternoon.
16. Sunny with a few cloudy periods. Temperatures above normal. Winds moderate becoming light.
17. Cloudy with a few rain showers in the afternoon. Temperatures above normal. Winds light.
18. Cloudy with rain showers. Temperatures below normal. Winds light becoming moderate with gusts.
19. Cloudy with rain and fog becoming sunny in the afternoon. Temperatures near normal. Winds moderate with gusts becoming light.
20. Sunny. Temperatures above normal. Winds light.
21. Cloudy with rain showers. Temperatures below normal. Winds light.
22. Cloudy with a light thundershower. Temperatures near normal. Winds light.
23. Cloudy. Temperatures slightly below normal. Winds light.
24. Sunny. Temperatures near normal. Winds light.
25. Sunny. Temperatures a little above normal. Winds light.
26. Sunny. Temperatures a little above normal. Winds light.
27. Sunny and hot. Winds light.
28. Sunny and hot. Winds light.
29. Sunny and hot. Winds light.
30. Cloudy with showers and thundershowers. Temperatures above normal. Winds light.
31. Cloudy with thundershowers overnight. Temperatures above normal. Winds moderate with strong gust in the morning becoming light in the afternoon.