

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: JULY / JUILLET 19 90  
 AT/A: WIMNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WIMNIPEG

LAT: 49° 54' N			LONG: 97° 14' W			ELEVATION ALTITUDE: 239.6			METRES (ASL) MÈTRES (NNM)			STANDARD TIME USED: 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 REFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE		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	km/h		km/h			
1	29.8	15.8	22.8		17.8	4.8	95	56	TR.		TR.	15.5	S	S 31	11.0		
2	29.5	17.8	23.7		18.7	5.7	100	46				14.0	NE	NE 26*	8.7		
3	24.3	15.1	19.7		14.7	1.7	98	60	1	12.0	12.0	16.8	NW	NW 30	3.6		
4	18.3	11.5	14.9	3.1	9.9		100	70		0.8	0.8	14.8	N	N 28	5.5		
5	19.9	11.5	15.7	2.3	10.7		98	47		TR.	TR.	7.1	N	N 17	7.0		
6	21.0	10.6	15.8	2.2	10.8		94	64	1	6.1	6.1	17.6	SE	ESE37	4.2		
7	24.8	16.9	20.9		15.9	2.9	98	79	1	4.8	4.8	13.2	S	SSE30	2.9		
8	24.6	13.2	18.9		13.9	0.9	100	53				13.0	WNW	WNW22	15.3		
9	23.9	11.9	17.9	0.1	12.9		100	54				11.5	NE	NNE24	12.8		
10	22.8	8.4	15.6	2.4	10.6		93	48				6.4	N	N 15*	13.7		
11	24.2	11.7	18.0		13.0		98	36				12.8	N	NE 22*	13.5		
12	26.2	8.7	17.5	0.5	12.5		97	39				5.8	NW	NW 13	14.7		
13	27.1	12.6	19.9		14.9	1.9	83	38				15.1	SSW	SSW24*	14.7		
14	28.8	13.2	21.0		16.0	3.0	89	39		TR.	TR.	16.4	SSW	SW 24*	12.1		
15	25.9	12.1	19.0		14.0	1.0	93	38				10.3	NW	NNW26	11.5		
16	27.3	11.8	19.6		14.6	1.6	91	38	1	1.0	1.0	10.0	WSW	SE 20	11.1		
17	24.1	16.2	20.2		15.2	2.2	98	44	1	2.4	2.4	16.7	NW	NW 31	10.8		
18	22.6	12.4	17.5	0.5	12.5		98	48	1	TR.	TR.	10.6	W	W 19	8.9		
19	23.4	11.7	17.6	0.4	12.6		96	41				14.3	WNW	WNW22*	15.0		
20	22.8	11.7	17.3	0.7	12.3		92	50		4.4	4.4	11.3	W	N 28	11.1		
21	21.8	11.8	16.8	1.2	11.8		96	52		TR.	TR.	13.0	WNW	N 22*	9.6		
22	25.6	10.5	18.1		13.1	0.1	94	42	1	1.7	1.7	7.5	WSW	N 24	12.0		
23	27.7	10.4	19.1		14.1	1.1	91	40				11.4	S	S 22	13.7		
24	30.7	13.1	21.9		16.9	3.9	86	33				15.8	S	S 26	12.5		
25	30.8	15.2	23.0		18.0	5.0	88	39				12.8	S	SSE20*	12.8		
26	30.2	18.7	24.5		19.5	6.5	93	55				18.6	SSE	SSE30	10.6		
27	28.8	20.0	24.4		19.4	6.4	92	63		TR.	TR.	18.0	SSE	SE 24	5.5		
28	27.9	16.7	22.3		17.3	4.3	95	53				14.8	NW	W 24	12.2		
29	21.2	10.3	15.8	2.2	10.8		96	47				18.0	NNW	NNW35	8.6		
30	23.9	7.4	15.7	2.3	10.7		97	33				9.5	W	WNW17	12.6		
31	30.4	9.0	19.7		14.7	1.7	89	35				11.0	S	W 19*	14.4		
MEAN MOYENNE	25.5	12.8	19.2	TOTAL 17.9	TOTAL 439.8	TOTAL 54.7	94	48	TOT 7	TOTAL 33.2	TOTAL 0.0	33.2		13.0	PREVAILING DIRECTION DOMINANTE S	MAXIMALE ESE37	TOTAL 332.6
NORMAL NORMALE	25.9	13.3	19.6	21.1	453.8	71.9			8	75.9	0.0	75.9		16.0	S		315.6

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

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 ANNEE EN COURS	PREVIOUS YEAR ANNEE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNEE EN COURS	PREVIOUS YEAR ANNEE PRÉCÉDENTE	NORMAL NORMALE	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
TOTAL FOR MONTH TOTAL DU MOIS	17.9	0.4	21.1	TOTAL FOR MONTH TOTAL DU MOIS	439.8	529.3	453.8	8	7	5	1	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	17.9	0.4	21.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1072.8	1185.4	1061.9										

UDC 551.506.1 ( ) Note/Aviz 1. Climatological Day/Journée climatologique 00 01 C S.T. - 00 00 C S.T.

2. Normal/Normale 1951-1980

3. TR = Trace

4. M = Missing/Maquant

5. No entry/Pas de valeur = No occurrence/Pas d'événement

6. \* Indicates first of more than one prevailing direction and/or maximum 2 minute mean speed (see page 4)/Indique la première de plusieurs des directions dominantes et/ou la vitesse moyenne maximale sur 2 minutes (voir page 4).

7. C = Calm/Calme \$2.75 \$27.30

8. Price: single issue \_\_\_\_\_; annual (Jan. to Dec.) \_\_\_\_\_ /Prix: numéro individuel \_\_\_\_\_; annuel \_\_\_\_\_ (janv. à déc.)



**WINNIPEG INTERNATIONAL AIRPORT  
AEROPORT INTERN. DE WINNIPEG**

**MONTH: JULY  
MOIS: JUILLET**

**1990  
1990**

Page 3.

**DRY-BULB TEMPERATURES AT:  
TEMPERATURES 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	179	166	173	164	160	174	175	173	175	183	220	238	256	269	271	278	286	294	294	289	275	258	245	235
2	214	213	203	190	190	193	193	200	249	263	271	269	278	285	285	284	284	258	243	235	225	220	220	228
3	227	226	219	222	219	213	207	186	186	196	208	219	225	222	229	225	233	243	230	212	193	171	166	157
4	152	135	128	121	115	125	138	162	156	165	167	168	175	175	164	171	154	164	158	152	143	129	131	125
5	124	117	117	117	116	118	118	123	140	157	164	168	176	179	178	191	190	193	192	186	164	152	145	130
6	121	129	115	113	108	117	126	147	165	181	176	175	155	151	172	188	205	207	203	205	202	197	189	193
7	188	182	184	189	185	182	184	196	210	215	209	227	223	221	225	230	240	228	219	204	195	181	176	169
8	170	166	147	138	148	134	138	156	172	186	197	206	217	226	230	234	240	237	239	232	219	202	193	179
9	158	153	147	148	131	142	141	172	194	205	213	206	215	212	215	234	225	223	214	204	188	180	166	149
10	120	116	106	110	84	91	109	135	164	182	193	199	211	213	217	219	220	217	211	204	187	151	142	135
11	146	136	125	122	128	122	133	160	175	208	218	229	229	238	234	229	230	229	227	219	189	158	143	151
12	131	120	112	108	104	95	109	146	191	212	226	238	248	250	243	243	255	252	247	242	218	196	183	173
13	173	164	161	155	143	131	134	171	192	220	235	240	246	255	257	263	263	263	259	249	225	208	197	191
14	178	166	156	141	137	133	143	162	189	209	226	247	265	257	277	277	280	272	258	249	235	230	205	199
15	181	161	153	135	127	124	138	168	200	214	235	240	246	248	245	244	229	238	223	218	190	192	177	163
16	135	144	138	138	127	123	137	146	174	205	229	240	252	261	262	263	257	253	250	253	231	227	223	219
17	197	182	176	172	173	167	168	188	187	209	201	216	228	233	227	234	235	232	234	203	201	180	164	169
18	172	163	147	136	135	127	134	145	153	151	155	175	189	205	203	216	222	215	214	208	184	157	159	151
19	149	142	147	140	126	121	124	149	173	197	207	213	225	223	217	223	215	216	214	204	173	157	157	147
20	133	142	144	131	135	118	129	146	178	164	151	181	202	222	182	221	213	207	202	190	156	145	150	146
21	142	135	126	121	123	125	130	148	160	178	175	174	176	178	204	204	207	200	207	203	171	143	135	145
22	139	131	115	109	111	109	120	140	171	196	216	228	235	238	177	176	218	237	238	228	208	176	160	155
23	145	145	140	130	124	115	113	135	166	197	217	235	250	265	271	269	269	268	264	250	234	217	197	183
24	178	166	164	146	141	139	142	157	183	205	231	250	270	277	296	292	303	304	287	271	249	231	219	210
25	191	178	166	158	159	157	160	186	215	238	255	270	283	292	297	305	300	299	283	272	257	246	235	229
26	222	219	211	205	196	191	193	212	223	222	235	250	262	264	285	290	290	290	281	270	254	239	234	227
27	219	215	212	210	207	205	204	206	209	212	201	211	222	232	254	274	274	278	282	276	260	245	233	221
28	219	209	189	185	174	170	176	204	220	235	250	261	257	261	262	269	276	259	249	250	225	204	200	179
29	170	152	152	142	134	123	143	157	175	186	190	201	198	207	204	196	197	190	190	175	169	127	116	112
30	105	97	95	78	80	91	106	131	171	182	198	201	206	219	235	221	228	231	232	222	195	181	174	161
31	160	146	128	123	109	105	113	138	170	212	236	253	271	278	288	294	297	303	297	285	256	241	231	211

**Note/avis:** 1. Climatological Day/Journee climatologique 0001 C.S.T. - 0000 C.S.T.  
 2. Hours are C.S.T./Les heures sont a l'heure normale de la localite  
 3. Unit/Unite = 0.1°C

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	147	145	144	143	144	138	131	134	148	159	165	161	163	176	182	195	209	199	205	206	216	219	218	220
2	206	209	200	190	184	189	189	191	188	192	185	210	205	204	175	157	171	170	147	152	161	170	174	155
3	143	145	171	187	189	201	202	183	180	188	200	214	214	213	221	216	205	196	180	175	161	159	155	142
4	146	134	128	121	115	125	138	153	111	113	110	115	120	123	136	143	154	141	118	119	117	110	108	121
5	119	110	105	106	106	105	105	107	112	101	99	91	107	100	102	99	90	79	92	87	98	97	91	88
6	99	95	85	86	90	97	99	92	102	120	107	113	139	140	145	139	145	142	144	146	144	146	148	151
7	164	177	178	179	179	177	177	184	191	196	192	201	193	190	194	195	202	190	189	181	172	170	169	167
8	167	161	147	138	148	132	130	136	139	142	143	142	147	152	141	149	140	152	148	151	149	152	139	141
9	141	132	135	140	131	130	133	148	146	157	144	143	142	135	133	135	135	137	135	121	119	115	112	112
10	105	91	89	83	75	79	94	105	133	132	107	99	115	99	99	108	108	109	132	128	121	126	123	123
11	122	119	116	116	111	105	112	118	116	103	85	78	76	83	99	96	99	96	91	112	123	120	119	120
12	115	107	104	103	98	89	102	123	141	139	110	117	112	106	111	120	116	102	112	126	126	120	117	109
13	105	108	103	106	105	103	103	113	123	136	130	120	108	111	109	117	111	116	123	142	153	157	142	129
14	127	127	122	114	107	103	102	107	120	130	143	158	163	145	133	127	130	144	143	156	173	172	160	163
15	161	131	117	106	97	115	125	128	131	134	121	131	114	97	114	134	99	115	115	131	126	132	126	123
16	116	120	116	114	111	109	114	117	139	151	137	112	111	104	116	118	134	130	134	138	136	124	132	142
17	155	162	167	167	159	161	163	169	171	170	168	165	161	156	150	139	104	104	115	120	115	129	126	126
18	122	126	132	129	129	123	125	128	129	126	130	140	140	134	121	116	115	102	111	122	123	126	140	134
19	132	127	129	128	119	113	114	123	123	123	107	102	91	89	83	81	87	87	82	89	104	105	106	106
20	106	108	112	115	120	107	108	116	129	106	138	117	125	128	143	110	124	121	116	115	123	126	122	116
21	116	120	116	114	116	119	123	131	125	121	106	105	109	116	113	118	112	111	107	104	126	122	121	129
22	121	112	106	101	101	101	107	120	137	150	134	115	105	102	119	139	129	127	117	119	139	141	130	132
23	126	116	110	106	104	100	99	106	121	132	135	137	140	131	129	130	124	123	132	139	147	143	144	144
24	134	126	121	116	111	109	115	126	138	145	145	145	157	153	145	114	117	134	143	145	153	157	137	127
25	128	130	131	129	129	134	141	155	173	184	190	184	167	158	151	150	148	145	145	160	167	170	173	175
26	177	181	183	181	178	177	177	182	183	184	192	196	198	196	190	188	189	189	192	192	192	190	188	186
27	185	183	184	183	180	178	175	172	173	176	178	181	184	188	190	198	201	204	205	208	208	211	209	207
28	207	200	179	162	156	158	163	170	170	172	171	164	164	165	166	169	170	164	161	167	153	158	155	151
29	147	141	139	135	126	118	128	123	116	112	103	95	95	87	91	93	90	89	82	87	83	84	81	83
30	83	79	82	74	75	84	89	102	94	87	94	72	78	68	64	64	72	76	89	95	96	100	98	95
31	96	96	97	95	92	88	90	96	109	125	126	112	113	118	120	125	133	131	125	132	154	150	141	135

Note/Avis: 1. Climatological Day/Journee climatologique 0001 C.S.F. - 0000 C.S.F.  
 2. Hours are C.S.F./Les heures sont a l'heure normale de la localite  
 3. Unit/Umite = 0.1°C

CLIMATOLOGICAL SUMMARY FOR JULY 1990AT WINNIPEG, MANITOBA

This was a very dry month, following the same precipitation pattern as last year; a wet June followed by a dry July. Total precipitation was only 33.2 mm, which is less than half the normal for July. Over two thirds of that total fell during the first week of the month.

The mean temperature of 19.2° was slightly below normal. The highest maximum temperature reached was 30.8° while the lowest was 7.4°.

There was an abundance of sunshine, averaging 10.7 hours per day, with wind speeds of 3 km/h lighter than usual.

DAILY WEATHER SUMMARY FOR JULY 1990AT WINNIPEG, MANITOBA

1. Some clouds in the morning clearing by noon. Temperatures above normal. Winds light increasing to moderate occasionally gusting strong by mid-morning reducing to light again by evening.
2. Mainly sunny becoming cloudy in the evening. Temperatures above normal. Winds light becoming moderate and gusty by mid-afternoon, reducing to light, late in the evening.
3. Overcast with thunder and rainshowers early in the morning and drizzle around noon, clearing in the evening. Temperatures near normal. Winds light except for a period of moderate in the late afternoon and early evening.
4. Cloudy to overcast with rainshowers in the late afternoon and drizzle in the evening. Temperatures below normal. Winds light becoming moderate and gusty by mid-morning reducing to light in the evening.
5. Cloudy, clearing in the evening. Temperatures below normal. Winds light.
6. Cloudy to overcast with thunder and rainshowers in the afternoon. Temperatures slightly below normal. Winds light, becoming moderate occasionally gusting strong in the afternoon.
7. Cloudy to overcast with thunder and rainshowers early in the morning and rainshowers in the evening. Temperatures near normal. Winds moderate early in the morning light for the rest of the day.
8. Sunny. Temperatures near normal. Winds light.
9. Sunny with some cloud in the afternoon. Temperatures slightly below normal. Winds light.
10. Sunny. Temperatures below normal. Winds light.
11. Sunny. Temperatures slightly below normal. Winds light becoming moderate by noon, reducing to light in the evening.
12. Sunny. Maximum normal, minimum below normal. Winds light.
13. Sunny. Temperatures near normal. Winds light becoming moderate by noon, reducing to light in the evening.
14. Sunny. Temperatures slightly above normal. Winds light.
15. Sunny. Temperatures slightly below normal. Winds light except for a period of moderate in the afternoon.
16. Sunny increasing cloud in the evening with thunder and rainshowers in the evening. Temperatures near normal. Winds light.
17. Cloudy with thunder and rainshowers very early in the morning, clearing in the evening. Temperatures slightly below normal. Winds light becoming moderate gusting strong near noon, becoming light in the evening.
18. Sunny with some cloud in the afternoon. Temperatures below normal. Winds light.
19. Sunny. Temperatures below normal. Winds light becoming moderate near noon, reducing to light again in the evening.
20. Cloudy with some sunny periods and rainshowers at mid-morning. Temperatures below normal. Winds light.
21. Cloudy with some sunny periods clearing in the evening. Temperatures below normal. Winds light.
22. Sunny with thunder and rainshowers in the afternoon. Temperatures below normal. Winds light except for a period of moderate and gusty winds during the rain storm.
23. Sunny. Maximum temperature above normal. Minimum below normal. Winds light.
24. Sunny. Maximum temperatures above normal, minimum normal. Winds light increasing to moderate in the afternoon, reducing to light in the evening.
25. Sunny. Temperatures above normal. Winds light.
26. Cloudy with some sunny periods. Temperatures above normal. Winds light becoming moderate by noon.
27. Cloudy to overcast with drizzle before noon, clearing in the late afternoon. Temperatures above normal. Winds light to moderate becoming light in the evening.
28. Sunny with a few clouds in the afternoon. Temperatures above normal. Winds light with a few periods of moderate.
29. Sunny becoming cloudy in the afternoon, clearing in the evening. Temperatures below normal. Winds light becoming moderate by mid-morning, reducing to light in the evening.
30. Sunny. Temperatures below normal. Winds light.
31. Sunny. Maximum temperature above normal, minimum below normal. Winds light.