

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: JUNE / JUIN 19 90

AT/A: WINNIPEG INT'L AIRPORT / AEROPORT INTERN. DE WINNIPEG

AT: 49° 54' N LONG: 97° 14' W ELEVATION ALTITUDE: 239.6 METRES (ASL) MÉTRES (NMM) STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE:

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE HEURES
	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	29.2	15.7	22.5		17.5	4.5	100	47	1	15.2		15.2		21.9	S	S 31	11.8
2	16.6	5.1	10.9	7.1	5.9		100	86	1	32.8		32.8		40.5	NNE	NNE57	0.0
3	14.7	3.2	9.0	9.0	4.0		97	47						26.5	N	N 44	11.1
4	19.4	1.3	10.4	7.6	5.4		97	42		3.4		3.4		12.8	S	S 28	5.9
5	18.7	9.7	14.2	3.8	9.2		98	56	1	4.0		4.0		23.8	S	WNW37*	9.1
6	24.7	8.5	16.6	1.4	11.6		89	35						14.9	W	W 20*	14.1
7	25.5	11.0	18.3		13.3	0.3	98	42	1	22.6		22.6		16.3	S	S 28*	4.4
8	16.5	11.6	14.1	3.9	9.1		100	86		14.6		14.6		18.4	N	N 35*	0.7
9	24.5	7.4	16.0	2.0	11.0		100	53	1	0.2		0.2		9.6	SSW	SE 22	13.5
10	28.7	10.9	19.8		14.8	1.8	99	46						17.2	SE	S 30*	12.3
11	23.3	17.2	20.3		15.3	2.3	98	60	1	18.4		18.4		24.3	S	S 35	3.0
12	25.2	12.8	19.0		14.0	1.0	90	45	1	6.2		6.2		17.7	WSW	WSW37	11.7
13	24.4	10.5	17.5	0.5	12.5		96	32		1.2		1.2		14.7	W	N 33	12.8
14	14.8	5.7	10.3	7.7	5.3		94	54						16.4	N	N 28	10.8
15	19.0	3.1	11.1	6.9	6.1		100	45						5.0	CALM	SSE13*	9.4
16	24.8	9.3	17.1	0.9	12.1		90	53						7.4	SE	E 13*	13.8
17	25.4	13.5	19.5		14.5	1.5	96	51	1	0.4		0.4		9.6	N	S 24	9.5
18	26.5	15.2	20.9		15.9	2.9	97	53	1	1.2		1.2		9.9	SSW	S 17	9.0
19	26.7	14.6	20.7		15.7	2.7	100	46	1	7.2		7.2		6.7	SW	WNW22	9.0
20	26.1	14.2	20.2		15.2	2.2	100	68	1	13.6		13.6		14.0	NW	NW 35	4.2
21	23.9	14.4	19.2		14.2	1.2	97	50	1	0.8		0.8		11.7	WNW	ENE26	9.1
22	22.1	11.0	16.6	1.4	11.6		100	67		0.8		0.8		13.0	NNE	N 30	6.3
23	22.3	8.6	15.5	2.5	10.5		98	54						6.1	S	WNW11*	13.7
24	27.6	13.3	20.5		15.5	2.5	96	50						14.2	S	S 24	14.0
25	28.7	16.4	22.6		17.6	4.6	98	51						11.6	S	NW 24	9.7
26	26.7	13.8	20.3		15.3	2.3	100	43						8.4	NE	NE 19	13.9
27	27.3	17.5	22.4		17.4	4.4	89	59						12.6	SE	SE 20	9.0
28	28.3	17.2	22.8		17.8	4.8	93	57		0.3		0.3		11.7	NW	NNE22	10.8
29	28.6	13.3	21.0		16.0	3.0	100	52		0.2		0.2		7.3	NW	WSW22	13.4
30	25.2	11.5	18.4		13.4	0.4	100	46						6.9	NE	NE 11*	15.4
MEAN MOYENNE	23.8	11.3	17.6	TOTAL 54.7	TOTAL 377.7	TOTAL 42.4	97	53	TOT 12	TOTAL 143.1	TOTAL 0.0	TOTAL 143.1		14.4	PREVAILING S DOMINANTE	MAXIMALE NNE57	TOTAL 291.4
NORMAL NORMALE	23.1	10.5	16.8	69.9	354.3	34.2			6	80.1	Tr.	80.1		18.1	S		276.1

### DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSOUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES					DAYS WITH SNOWFALL JOURS AVEC CHÛTE DE NEIGE				
								0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE
TOTAL FOR MONTH TOTAL DU MOIS	54.7	70.6	69.9	TOTAL FOR MONTH TOTAL DU MOIS	377.7	343.7	354.3	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS
ACCUMULATED SINCE JULY 1 ACCUMULÉE PUIS LE 1er JUILLET	5780.8	5887.0	5923.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	633.0	656.1	608.1	17	12	10	6	0	0	0	0	0	0

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/Calm \$2.75 \$27.30 \$2.75 \$27.30
8. Price: single issue \_\_\_\_\_ annual (Jan. to Dec.) \_\_\_\_\_ /Prix: numéro individuel \_\_\_\_\_ annuel \_\_\_\_\_ (janv. à déc.)



DRY-BULB TEMPERATURES AT: TEMPERATURES DU THERMOMETRE SEC A:		WINNIPEG INTERNATIONAL AIRPORT AEROPORT INTERN. DE WINNIPEG												MONTH: JUNE MOIS: JUIN		1990 1990								
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	189	182	175	168	159	160	165	180	200	216	232	252	268	279	274	286	285	276	270	192	179	169	170	160
2	165	148	132	136	124	108	96	91	77	73	67	62	57	56	52	55	55	52	52	55	56	55	59	58
3	53	46	46	44	39	35	33	44	48	54	78	92	113	118	128	139	139	142	142	123	110	80	63	42
4	32	28	21	17	23	26	58	82	99	116	123	141	160	164	175	174	190	178	175	165	153	154	143	128
5	123	126	127	117	116	113	116	128	142	162	179	177	172	170	160	164	182	174	149	138	130	121	121	113
6	97	97	92	93	88	87	101	125	147	167	189	215	223	222	235	238	242	229	242	225	218	193	166	156
7	153	146	141	117	120	118	131	146	158	186	197	211	225	184	194	212	253	229	212	198	155	168	156	135
8	134	127	122	122	123	124	126	129	131	135	138	147	146	165	151	138	139	143	150	153	152	130	128	128
9	116	113	101	96	77	84	111	144	170	193	208	221	236	242	216	219	208	213	204	199	182	161	153	144
10	134	129	132	116	110	115	137	156	181	196	218	241	252	269	279	280	282	274	268	262	252	235	230	229
11	231	224	222	218	213	208	210	180	183	186	193	198	191	198	209	214	231	231	228	218	211	207	205	202
12	199	195	161	151	139	130	141	149	162	182	200	211	219	235	242	248	236	236	229	220	177	167	150	142
13	137	146	125	111	119	113	124	138	157	177	186	210	218	236	239	239	241	225	229	211	157	148	145	131
14	113	109	103	82	66	59	66	69	87	85	90	100	107	122	127	137	140	136	134	130	120	100	85	73
15	58	55	56	48	44	46	70	113	119	131	140	147	158	171	175	184	186	184	182	176	158	143	114	121
16	113	116	108	109	99	94	124	150	166	182	192	200	215	229	230	240	242	234	241	240	215	194	182	176
17	166	161	154	145	141	141	157	166	181	194	221	235	242	251	234	248	249	249	246	228	207	185	189	184
18	177	166	163	160	157	160	160	175	192	200	218	231	243	248	253	259	259	249	242	230	208	182	169	166
19	158	159	157	150	153	149	161	171	179	201	216	229	243	248	256	253	265	255	243	179	152	155	161	157
20	153	153	151	150	145	146	146	147	151	162	177	172	175	184	208	212	213	227	171	187	183	173	171	166
21	162	155	155	153	149	149	149	154	181	203	216	216	230	211	220	213	224	234	212	199	188	169	161	160
22	145	127	110	111	116	112	130	140	137	153	174	193	200	207	190	179	198	194	199	190	176	157	154	129
23	117	119	111	96	88	87	110	130	149	155	168	179	188	195	205	212	213	222	210	204	189	168	171	163
24	161	157	143	138	138	142	154	171	196	214	231	250	259	261	268	268	273	268	265	252	235	218	210	208
25	198	195	181	181	173	168	175	196	220	232	243	259	275	274	273	278	282	286	256	251	223	205	192	191
26	175	157	153	155	139	144	152	171	197	212	226	234	243	253	259	262	261	261	253	244	228	213	194	189
27	189	198	178	175	183	182	186	203	205	224	239	252	252	246	263	271	268	261	255	254	245	236	224	211
28	201	201	198	183	180	176	186	197	204	206	222	232	245	259	266	271	272	276	267	254	242	207	204	195
29	186	176	162	162	154	149	153	175	194	217	235	252	258	265	265	274	284	284	191	212	196	164	164	155
30	149	141	144	143	124	118	139	164	173	191	201	217	226	231	239	245	248	248	245	239	223	195	194	189

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

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

MONTH: JUNE  
MOIS: JUIN

1990  
1990

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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	113	115	117	115	114	118	122	134	145	151	156	159	160	158	159	159	167	167	164	151	165	164	163	159
2	158	148	132	136	124	108	96	88	77	73	67	62	57	56	52	55	55	52	52	55	56	55	57	55
3	34	8	13	3	3	-9	7	7	7	4	4	17	30	23	24	33	32	30	38	38	33	22	28	23
4	26	18	14	11	18	19	43	45	26	30	26	26	40	47	76	56	59	62	52	74	88	77	91	105
5	107	106	104	109	110	109	111	116	117	116	102	89	96	107	100	104	101	102	99	90	90	90	89	87
6	79	74	71	70	69	68	75	88	97	103	104	99	106	90	94	91	91	94	78	73	85	90	89	86
7	89	86	82	82	79	82	84	89	100	120	114	135	153	142	162	167	115	118	123	129	130	125	107	129
8	131	124	122	122	123	124	126	129	131	135	137	137	143	149	140	133	137	132	132	131	131	124	124	120
9	108	107	97	93	77	84	111	130	138	147	150	160	153	140	142	137	132	138	131	126	130	129	129	124
10	122	121	124	112	108	113	127	133	144	152	100	149	157	156	155	155	154	155	157	148	145	143	144	143
11	143	145	142	140	137	138	143	173	177	180	176	180	184	189	183	190	201	202	204	200	198	199	199	195
12	197	146	94	92	100	104	109	117	125	131	121	94	94	122	129	139	136	121	138	130	104	125	123	123
13	115	112	107	103	110	109	117	124	128	137	130	141	127	73	72	63	74	61	70	77	106	118	104	104
14	99	89	82	62	52	42	44	49	55	58	47	50	51	53	40	58	60	52	47	40	37	44	52	62
15	48	44	49	41	43	43	66	54	52	44	59	72	80	66	65	77	64	71	58	73	60	56	62	51
16	64	65	76	82	80	79	102	119	123	123	127	127	132	135	146	139	142	152	140	143	153	143	137	140
17	140	137	141	137	134	132	140	143	153	146	153	152	154	150	157	144	141	142	140	161	141	129	129	156
18	159	153	149	144	146	146	150	150	155	151	148	150	153	164	158	160	157	151	146	158	142	161	149	154
19	152	146	144	143	143	141	148	153	159	165	172	170	179	167	163	145	141	142	146	131	144	150	154	154
20	153	153	150	150	145	146	146	146	150	159	166	164	160	161	162	160	154	161	143	154	156	153	150	151
21	146	146	140	138	139	140	146	145	162	152	167	161	169	169	143	140	130	124	132	134	122	137	146	139
22	137	122	108	109	114	110	129	138	136	139	149	148	152	146	147	135	143	143	137	146	118	129	132	94
23	101	117	99	91	83	77	92	106	105	95	109	118	122	120	121	126	117	123	124	120	120	134	123	128
24	123	118	116	120	125	132	137	143	156	161	165	161	150	151	166	168	161	162	169	177	174	166	158	161
25	162	162	161	158	154	153	156	169	181	194	202	208	210	199	194	198	196	203	146	171	182	179	178	178
26	172	154	153	155	139	140	147	159	127	170	164	150	150	136	122	145	155	155	128	139	144	151	154	150
27	120	122	142	133	127	131	135	148	152	174	189	174	179	181	180	182	181	182	184	181	183	189	185	183
28	181	176	178	163	168	164	168	172	179	180	188	197	196	198	199	187	189	182	179	186	187	179	179	173
29	168	166	158	152	145	139	143	146	151	157	166	182	183	186	170	174	178	180	160	160	158	151	157	155
30	149	141	142	139	121	116	135	145	154	138	135	125	122	108	131	135	139	132	129	145	144	143	142	149

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

The major story for the month of June is the abundance of rain that fell throughout southern Manitoba. Total precipitation was 143.1 mm which is nearly double the normal of 80.1 mm. More than half of that total fell during the first week of June. June was marked by frequent thunderstorm throughout the Region. Thunder was heard at Winnipeg on 11 days.

Temperatures were cool at the beginning of the month but with warmer temperatures during the later half, the mean was just under one degree above the monthly normal. No temperature records were set in June.

Although there was nearly twice the normal rainfall and the number of day with measurable rain was 60% more than normal, total sunshine hours of 291.4 was slightly more than the normal of 276.1 hours. Wind speed were about 3 km/h lighter than normal. The average wind speed was 14.7 km/h.

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DAILY WEATHER SUMMARY FOR JUNE 1990AT WINNIPEG, MANITOBA

1. Mainly sunny becoming overcast with thunder and rain showers in the evening. Winds moderate and gusty, reducing slightly in the evening. Temperatures above normal.
2. Overcast with light rain and fog. Temperatures below normal. Winds moderate to strong gusting to gale force.
3. Cloudy clearing by noon. Temperatures below normal. Winds moderate and gusty reducing to light in the evening.
4. Mainly sunny becoming overcast with rainshowers in the evening. Temperatures below normal. Winds light becoming moderate in the afternoon.
5. Mostly cloudy with rainshowers early in the morning. Temperatures slightly below normal. Winds moderate gusting strong.
6. Sunny. Temperatures slightly above normal. Winds generally light with a period of moderate around noon.
7. Cloudy to overcast with thunder and rainshowers in the afternoon and rainshowers in the evening. Temperatures slightly above normal. Winds light becoming moderate occasionally gusting strong in the evening.
8. Overcast with rainshowers, rain and fog, clearing in the evening. Winds light becoming moderate occasionally gusting strong by noon, reducing to light again in the evening. Temperatures below normal.
9. Mainly sunny with thunder and rainshowers in the afternoon, clearing after the storm. Temperatures slightly above normal. Winds light.
10. Sunny with clouds in the evening. Temperatures above normal. Winds light becoming moderate and gusty by early afternoon.
11. Overcast with thunder and rain showers in the morning and later in the evening. Temperatures slightly above normal. Winds moderate occasionally gusting strong, reducing to light in the evening.
12. Sunny becoming overcast with thunder and rain showers in the evening. Temperatures slightly above normal. Winds moderate occasionally gusting strong early in the morning and during the storm otherwise light.
13. Sunny with some clouds in the late afternoon and evening. Temperatures slightly above normal. Winds light with a period of moderate and gusty winds in the mid-afternoon to evening period.
14. Cloudy becoming clearer in the late afternoon. Temperatures below normal. Winds moderate becoming light in the late afternoon.
15. Cloudy clearing later in the afternoon. Temperatures below normal. Winds light.
16. Sunny with a few clouds. Temperatures near normal. Winds light.
17. Mainly cloudy with some sunny periods in the afternoon and a thunder and rain shower in the evening. Temperatures slightly above normal. Winds light.
18. Cloudy with some sunny periods with thunder and rainshowers early in the morning and in the evening. Temperatures slightly above normal. Winds light.
19. A few clouds becoming overcast with thunder and rain showers in the evening. Temperatures slightly above normal. Winds light becoming moderate and gusty during the storm.
20. Overcast with thunder and rain showers, clearing in the evening. Temperatures slightly above normal. Winds light becoming moderate gusting strong by mid-afternoon and light again in the evening.
21. Sunny with some clouds and thunder and rainshowers around mid-afternoon. Temperatures near normal. Winds light.
22. Cloudy clearing in the evening. Temperatures near normal. Winds light.
23. Sunny with a few clouds in the afternoon. Temperatures slightly below normal. Winds light.
24. Sunny. Temperatures above normal. Winds light becoming moderate and gusty in the afternoon, decreasing to light in the evening.
25. Mainly sunny. Temperatures above normal. Winds light except for a short period of moderate in the late afternoon.
26. Sunny. Temperatures slightly above normal. Winds light.
27. Cloudy with some sunny periods. Temperatures above normal. Winds light.
28. Cloudy with rain showers early in the morning, sunny in the afternoon. Temperatures above normal.
29. Sunny. Temperatures above normal. Winds light.
30. Sunny. Temperatures normal. Winds light.