



Environment Canada

Atmospheric Environment Service

Environnement Canada

Service de l'environnement atmosphérique

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

MAY

/ MAI

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) MÈTRES (NMM)		STANDARD TIME USED: CENTRAL									
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		PRECIPITATION PRÉCIPITATIONS				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	THUNDERSTORM ORAGE	RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. TOTALE	SNOW ON GROUND NEIGE AU SOL	AVERAGE SPEED VITESSE MOYENNE	PREVAILING 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	
1	16.3	-1.1	7.6	10.4	2.6		69	27						8.8	S	S 17	14.2
2	20.0	2.4	11.2	6.8	6.2		69	23						10.5	S	S 19	13.1
3	18.9	4.4	11.7	6.3	6.7		65	34						9.3	N	S 15*	9.3
4	19.9	-3.5	8.2	9.8	3.2		90	37		1.4	TR.	1.4		25.1	S	NW 56	6.6
5	2.8	-7.0	-2.1	20.1			69	32						38.7	N	N 54	9.2
6	14.7	-10.1	2.3	15.7			69	17						9.9	S	S 20	14.2
7	24.0	5.8	14.9	3.1	9.9		84	20		TR.		TR.		15.8	S	S 24	5.0
8	20.5	8.1	14.3	3.7	9.3		84	16		TR.		TR.		13.6	NNE	NNE26	9.7
9	24.5	2.8	13.7	4.3	8.7		56	23						7.8	NE	NE 20	14.3
10	27.3	3.3	15.3	2.7	10.3		79	19						17.5	SSE	SE 28*	14.3
11	27.9	14.7	21.3		16.3	3.3	51	18						32.5	S	SSE48	12.1
12	28.5	14.4	21.5		16.5	3.5	48	16						24.7	SSE	S 37	14.2
13	29.2	8.9	19.1		14.1	1.1	47	16						10.5	SE	SE 19	14.8
14	29.3	9.0	19.2		14.2	1.2	75	27						4.7	CALM	SSE13	12.8
15	29.8	11.9	20.9		15.9	2.9	54	27		TR.		TR.		9.4	SSW	WSW19*	7.6
16	30.5	16.3	23.4		18.4	5.4	56	22		TR.		TR.		18.8	S	S 33	7.3
17	25.5	13.6	19.6		14.6	1.6	97	45		6.0		6.0		24.0	S	S 41	5.4
18	27.7	12.4	20.1		15.1	2.1	91	44						17.2	S	SSE28	14.4
19	18.4	7.9	13.2	4.8	8.2		98	80		7.0		7.0		14.4	SSE	WNW37	0.0
20	20.2	6.4	13.3	4.7	8.3		87	33		TR.		TR.		19.0	W	WSW33	11.2
21	26.3	7.1	16.7	1.3	11.7		68	17		TR.		TR.		14.5	S	S 26	10.0
22	23.0	5.9	14.5	3.5	9.5		84	31		TR.		TR.		11.5	WNW	WNW20*	7.3
23	21.4	7.0	14.2	3.8	9.2		77	37						11.8	ENE	NE 24	11.9
24	13.6	8.7	11.2	6.8	6.2		98	51		1.8		1.8		21.3	E	E 33	0.0
25	9.5	4.0	6.8	11.2	1.8		95	84		5.6		5.6		28.9	W	NNW39	0.0
26	15.3	1.5	8.4	9.6	3.4		90	32						17.8	NNW	NNW31	14.8
27	24.0	4.3	14.2	3.8	9.2		92	30		4.2		4.2		17.3	S	SSW31	7.9
28	13.5	6.0	9.8	8.2	4.8		98	31						23.5	NNE	NE 33	10.3
29	16.3	6.0	11.2	6.8	6.2		63	35						14.3	NE	NNE19*	8.2
30	20.9	7.7	14.3	3.7	9.3		68	22						6.1	NNW	WNW15	6.7
31	24.2	8.5	16.4	1.6	11.4		76	26						8.3	S	SSW17	14.3
MEAN MOYENNE	21.4	6.0	13.7	TOTAL 152.7	TOTAL 281.2	TOTAL 21.1	76	31	TOT 0	TOTAL 26.0	TOTAL TR.	TOTAL 26.0		16.4	PREVAILING S DOMINANTE	MAXIMALE NW 56	TOTAL 301.1
NORMAL NORMALE	18.0	4.5	11.3	219.3	203.8	10.1			3	63.2	2.5	65.7		20.2	S		265.6

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

### DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS

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	DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS					DAYS WITH SNOWFALL: JOURS AVEC CHUTE DE NEIGE				
								02 OR MORE OU PLUS	10 OR MORE OU PLUS	20 OR MORE OU PLUS	100 OR MORE OU PLUS	500 OR MORE OU PLUS	02 OR MORE OU PLUS	10 OR MORE OU PLUS	20 OR MORE OU PLUS	100 OR MORE OU PLUS	500 OR MORE OU PLUS
TOTAL FOR MONTH TOTAL DU MOIS	152.7	146.5	219.3	TOTAL FOR MONTH TOTAL DU MOIS	281.2	299.4	203.8	6	6	4	0	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	5816.4	4961.2	5853.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	312.4	371.2	253.8	6	6	4	0	0	0	0	0	0	0

UDC 551.506.1 ( )

Note/Avise

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/Manquant

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 \$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: MOIS:		1989 1989								
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	32	37	28	23	10	-11	2	35	78	101	124	130	132	140	147	138	156	153	151	135	107	98	89	80
2	76	70	55	30	24	33	37	55	86	125	149	158	164	175	181	181	190	192	188	162	130	112	114	122
3	116	84	54	67	93	61	60	55	76	91	111	129	149	162	172	186	177	179	171	153	135	123	103	94
4	93	103	92	76	66	47	48	89	111	127	139	162	174	184	74	64	20	27	19	7	-1	-10	-20	-28
5	-35	-36	-47	-57	-63	-68	-68	-67	-59	-44	-35	-24	-14	-5	9	18	20	13	9	17	-10	-20	-36	-52
6	-68	-58	-77	-95	-94	-93	-83	-42	-13	7	23	56	71	92	105	115	123	135	146	132	94	97	86	85
7	85	82	71	72	75	69	60	75	89	105	130	168	199	217	234	219	210	205	193	180	177	159	147	140
8	100	120	120	103	108	89	85	95	118	143	155	172	184	190	191	196	197	193	190	164	115	113	101	83
9	83	74	44	36	36	48	37	123	158	188	199	213	217	226	232	241	236	225	218	205	183	162	130	133
10	110	98	68	64	49	42	86	130	166	203	228	235	243	255	258	262	266	261	253	241	220	202	194	184
11	169	166	156	154	161	150	150	168	189	207	227	246	253	262	253	275	274	260	250	214	181	214	212	195
12	174	164	158	152	148	145	145	161	186	212	235	245	256	267	271	277	274	268	261	246	217	180	178	170
13	145	136	117	126	120	91	115	147	170	201	231	247	257	273	275	282	277	275	273	260	238	215	185	162
14	153	152	157	141	147	100	105	168	206	236	251	264	264	263	279	284	278	279	272	261	247	229	203	202
15	177	147	153	151	148	123	144	187	226	268	279	267	278	276	283	291	284	276	282	272	246	213	196	210
16	186	174	170	183	178	163	169	182	210	251	277	280	282	296	298	297	298	286	285	273	269	252	231	196
17	204	213	213	204	204	182	185	200	221	232	245	226	203	179	174	182	172	184	198	190	157	152	146	143
18	136	136	131	129	125	124	130	152	173	192	214	235	245	257	264	266	262	250	236	224	207	196	174	183
19	182	164	164	164	162	163	160	164	168	164	161	164	167	170	170	116	100	112	110	117	97	96	83	84
20	79	75	73	73	69	69	79	103	130	143	146	156	172	175	192	192	188	184	183	176	151	134	129	124
21	116	101	89	83	73	72	78	122	148	178	206	215	230	231	236	238	236	243	260	243	215	185	139	121
22	99	89	79	59	65	81	107	138	174	177	175	166	161	192	176	200	218	222	213	195	171	121	109	112
23	122	112	115	108	87	71	82	104	132	147	160	168	180	183	193	190	193	188	175	161	145	136	130	130
24	122	125	118	112	117	120	119	122	132	132	121	114	114	111	116	118	113	113	108	99	98	97	92	88
25	88	89	89	85	84	83	82	82	79	80	80	77	76	79	68	56	53	49	47	45	41	40	42	43
26	41	40	38	29	23	15	25	48	62	69	85	96	112	120	130	144	141	146	146	135	107	82	58	82
27	67	52	69	66	47	54	74	103	145	178	198	208	222	209	218	211	214	231	226	169	147	134	134	134
28	134	115	107	99	82	74	74	79	85	100	106	105	110	115	116	126	114	114	109	97	87	67	61	61
29	61	61	64	66	68	65	67	68	74	90	102	109	129	135	153	150	155	149	142	133	124	116	110	88
30	88	77	79	78	77	77	87	106	122	134	165	168	180	184	200	198	190	193	186	176	161	149	144	139
31	136	130	122	113	90	88	94	126	146	172	191	206	201	215	219	220	232	225	218	205	191	177	173	166

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 l'heure normale de la localité  
 3. Unit/Unite = 0.1°C

HOURLY DOW POINT TEMPERATURE AT: WINNIPEG INTERNATIONAL AIRPORT		1989																							
TEMPERATURE DE ROSEE HORAIRES A: AEROPORT INTERN. DE WINNIPEG		MOIS: MAY MAI																							
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	-39	-46	-52	-51	-56	-61	-54	-35	-14	-15	-18	-25	-29	-30	-21	-42	-31	-35	-38	-27	-33	-23	-17	-17	
2	-21	-19	-23	-29	-29	-27	-22	-10	9	12	6	-24	-25	-34	-27	-35	-24	-30	-28	-17	-26	-27	-29	-34	
3	-33	-27	-16	-17	-11	-16	-5	-10	-1	15	17	18	25	20	28	25	19	20	18	20	20	18	17	30	
4	32	21	39	39	36	28	31	67	73	74	65	68	54	33	47	47	6	10	-4	-38	-51	-72	-73		
5	-78	-86	-108	-121	-122	-120	-131	-141	-157	-147	-140	-148	-147	-143	-137	-130	-127	-130	-136	-132	-131	-132	-133	-138	
6	-141	-135	-143	-148	-148	-143	-133	-105	-109	-115	-121	-113	-116	-108	-103	-104	-105	-106	-103	-99	-102	-105	-98		
7	-98	-93	-91	-86	-85	-75	-73	-68	-56	-41	-12	-4	-1	-12	-11	-13	-9	-10	-2	0	6	60	66		
8	74	86	81	72	69	66	51	48	38	37	38	30	9	-18	-48	-67	-64	-49	-57	-66	-41	-30	-32		
9	-36	-31	-35	-43	-48	-41	-33	1	-14	-1	-3	-4	3	11	11	15	16	20	20	14	13	12	22		
10	22	21	15	18	11	6	23	15	23	26	15	8	6	3	6	16	23	31	31	23	21	25	23		
11	16	20	24	28	39	44	48	46	47	49	42	35	14	21	17	16	18	29	29	35	50	35	30		
12	31	31	37	38	27	20	19	21	24	34	33	21	16	16	9	2	13	6	-17	-40	-41	-14	-11		
13	-10	-15	-18	-19	-25	-22	1	0	6	19	23	-8	6	1	1	-6	-2	-8	-11	3	34	39	42		
14	41	47	50	47	47	35	61	79	77	85	80	79	79	77	77	77	77	70	76	92	64	59	58		
15	55	47	54	48	50	43	52	78	84	88	74	70	78	78	80	81	81	77	76	76	83	82	74		
16	68	67	72	79	80	76	81	87	98	91	86	82	82	80	79	65	61	60	65	65	60	65	86		
17	100	92	95	94	97	108	113	120	122	122	133	128	139	155	159	156	166	170	163	166	126	122	122		
18	114	115	113	112	112	111	116	128	145	153	163	149	161	151	136	134	149	143	153	153	150	148	142		
19	148	146	147	148	147	146	147	146	146	148	156	156	157	161	161	97	78	96	94	86	73	73	63		
20	54	54	49	49	39	31	34	50	64	62	53	51	60	44	39	36	24	26	25	26	40	42	40		
21	19	19	17	17	14	14	25	44	50	44	24	30	25	21	22	15	-2	28	27	-26	-18	-19	35		
22	33	33	32	31	39	31	44	54	60	39	27	19	39	44	36	46	39	47	36	29	22	20	22		
23	39	40	29	23	33	31	42	53	31	29	35	38	40	39	44	48	49	49	44	33	29	28	22		
24	34	25	27	30	29	34	37	48	44	49	80	82	74	71	76	73	81	83	85	92	88	87	85		
25	86	86	82	77	75	74	72	63	58	59	54	54	55	55	46	40	36	35	32	29	23	23	21		
26	17	17	21	11	11	1	8	17	10	8	2	12	8	23	22	21	-10	-19	-17	0	1	-4	6		
27	0	-7	-27	-22	-16	-2	15	34	46	48	44	47	46	40	36	65	54	47	41	104	116	122	119		
28	117	111	87	58	43	26	26	31	34	27	26	21	31	23	12	6	2	-12	-52	-33	-31	-35	-38		
29	-15	-8	-2	0	-2	-6	-40	-30	-26	-16	-8	-11	-3	-2	5	8	3	-6	7	-2	-13	-20	-30		
30	2	13	21	15	7	15	29	16	-2	3	-9	-13	-4	-18	-10	-19	-11	5	5	17	23	26	25		
31	35	37	44	49	47	47	55	67	70	68	61	59	33	20	41	35	27	21	24	33	36	35	38		

Note/avis: 1. Climatological Day/Journee climatologique 0001 C.S.T. - 0000 C.S.T.  
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CLIMATOLOGICAL SUMMARY FOR MAY 1989AT WINNIPEG, MANITOBA

It was a dry month with less than half the normal precipitation total. The mean temperature was 13.7, 2.4 degrees warmer than the norm of 11.3. The mean maximum was 21.4 (normal 18.0) and the mean minimum was 6.0 (normal 4.5). Extremes for the month were 30.5 on the 16th and -10.1 on the 6th - a record low minimum for that date.

Rainfall was 26.0 mm (normal 63.2 mm) and snowfall a trace (normal 2.5 cm). The total precipitation was 26.0 mm (normal 65.7 mm).

Sunshine was considerably above the normal at 301.1 hours (normal 219.3) and winds averaged 16.9 km/h compared to the norm of 20.2

DAILY WEATHER SUMMARY FOR MAY 1989AT WINNIPEG, MANITOBA

1. Sunny with a few clouds in the afternoon. Temperatures near normal. Winds light.
2. Sunny with a few clouds in the evening. Temperatures above normal. Winds light.
3. Sunny with a few clouds. Temperatures above normal. Winds light.
4. Sunny, becoming cloudy to overcast with rainshowers. Snowshowers and blowing dust. Temperatures near normal though there was a severe temperature drop in the afternoon (from 19°C to 7 in half an hour). Winds light in the morning increasing to moderate to strong gusting to gale force.
5. Sunny with a few clouds in the afternoon. Temperatures well below normal. Winds moderate to strong gusting to gale force, diminishing to light late in the evening.
6. Sunny. Temperatures below normal. Winds light.
7. Cloudy in the morning, sunny in the afternoon, becoming overcast in the evening. Temperatures above normal. Winds light with occasional moderate periods in the afternoon.
8. Few clouds in the morning otherwise sunny. Temperatures above normal. Winds light becoming moderate by noon and light again by early evening.
9. Sunny. Temperatures above normal. Winds light.
10. Sunny. Temperatures above normal. Winds light becoming moderate by mid-morning.
11. Sunny. Temperatures well above normal. Winds moderate to strong gusting to gale force.
12. Sunny. Temperatures well above normal. Winds moderate occasionally gusting strong.
13. Sunny. Temperatures well above normal. Winds light.
14. Sunny with some cloud in the afternoon. Temperatures well above normal. Winds light.
15. Sunny with increasing cloud in the morning and a light rainshower at noon. Temperatures well above normal. Winds light.
16. Cloudy with some sunny periods and a light rain shower in the late afternoon. Temperatures well above normal. Winds light becoming moderate by noon and light again late in the evening.
17. Few clouds becoming overcast by noon with rainshowers in the afternoon. Temperatures above normal. Winds moderate gusting strong, reducing to light late in the evening.
18. Sunny. Temperatures well above normal. Winds light becoming moderate in the afternoon and light again in the evening.
19. Overcast with rainshowers and fog clearing in the evening. Temperatures near normal. Winds light except for a short period of moderate gusting strong in the afternoon.
20. Sunny becoming cloudy by mid-morning clearing in the evening. Temperatures near normal. Winds light becoming moderate gusting strong by mid-morning, reducing to light in the evening.
21. Sunny with cloudy periods in the afternoon clearing somewhat in the evening. Temperatures above normal. Winds light, becoming moderate occasionally gusting strong by noon, reducing to light in the evening.
22. Cloudy to overcast with a light rainshower in the afternoon, clearing in the evening. Temperatures slightly above normal. Winds light occasionally moderate.
23. Sunny with scattered clouds. Temperatures slightly above normal. Winds light, except for a period of moderate in the evening.
24. Overcast with light rainshowers throughout the day. Temperatures below normal. Winds moderate with a period of light in the evening.
25. Overcast with light rain and rainshowers throughout the day. Temperatures below normal. Winds moderate gusting strong.
26. Sunny with a few clouds. Temperatures below normal. Winds light becoming moderate, reducing to light again by late afternoon.
27. Sunny increasing to cloudy with rainshowers in the afternoon, and overcast with rainshowers in the evening. Temperatures near normal. Winds light becoming moderate occasionally gusting strong by mid-morning, and light again in the afternoon.
28. Overcast becoming sunny by mid-morning. Temperatures below normal. Winds moderate occasionally gusting strong.
29. Cloudy clearing by mid-morning, becoming cloudy in the evening. Temperatures below normal. Winds light.
30. Cloudy with sunny periods around mid-day. Temperatures normal. Winds light.
31. Sunny with a few clouds in the afternoon and evening. Temperatures slightly above normal. Winds light.