



Environment Canada

Environnement Canada

Atmospheric Environment Service

Service de l'environnement atmosphérique

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

FEBRUARY / FÉVRIER

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.		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. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DOMINANTE	MAX 2 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX. SUR 2 MIN & DIRECTION		HOURS HEURES			
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%	mm	cm	mm	km/h		km/h							
1	-26.6	-34.5	-30.6	48.6			65	48				22	14.4	NNW	NNW26	8.4					
2	-29.0	-34.3	-31.7	49.7			73	46		1.2	1.0	23	9.3	WNW	WNW19	6.9					
3	-26.8	-35.6	-31.2	49.2			66	51				23	16.5	W	W 20*	9.0					
4	-21.5	-30.0	-25.8	43.8			69	56		TR.	TR.	23	15.8	W	WNW24	8.9					
5	-12.7	-23.3	-18.0	36.0			81	61		0.2	0.2	23	14.0	W	W 17*	5.0					
6	-8.2	-14.1	-11.2	29.2			89	71		TR.	TR.	23	14.2	W	NW 17*	4.9					
7	-8.9	-24.0	-16.5	34.5			94	61		0.8	0.8	23	24.0	W	NNE44	3.7					
8	-18.7	-28.2	-23.5	41.5			68	54				23	17.8	NW	NW 22*	8.9					
9	-10.4	-19.1	-14.8	32.8			84	60		TR.	TR.	22	19.5	NNW	NNW31	7.7					
10	-2.5	-14.6	-8.6	26.6			83	68				22	21.9	NNW	NNW35	5.2					
11	-2.0	-9.3	-5.7	23.7			79	64				22	22.3	WNW	WNW33	8.7					
12	-2.1	-12.1	-7.1	25.1			86	70				22	20.6	SSW	SSW30*	7.0					
13	-4.2	-14.6	-9.4	27.4			83	65		TR.	TR.	22	20.2	WNW	NNW41	7.9					
14	-12.9	-29.3	-21.1	39.1			65	46				22	18.7	W	N 26	8.1					
15	-22.7	-33.6	-28.2	46.2			64	45				21	7.5	W	SW 13	10.5					
16	-22.0	-32.1	-27.1	45.1			67	46				21	5.8	WSW	SW 13	8.8					
17	-19.7	-31.6	-25.7	43.7			67	49				21	12.2	WNW	SW 20	9.5					
18	-13.3	-26.4	-19.9	37.9			69	43				21	18.0	WSW	W 26	9.1					
19	-10.4	-18.0	-14.2	32.2			74	58				21	13.7	W	W 20*	8.6					
20	-12.5	-24.0	-18.3	36.3			78	61				20	12.7	SSW	S 20*	5.4					
21	-12.3	-24.5	-18.4	36.4			82	57		TR.	TR.	20	22.4	NNW	N 31*	9.9					
22	-15.2	-28.1	-21.7	39.7			70	56				19	14.7	SSW	S 22	9.3					
23	-7.1	-22.4	-14.8	32.8			95	65		1.2	1.2	19	40.3	S	S 59	3.0					
24	-9.0	-7.7	-3.9	21.9			100	80		0.2	1.8	21	16.7	WNW	S 43	1.4					
25	-3.3	-19.1	-11.2	29.2			88	70		TR.	TR.	22	26.0	NNW	N 37	8.2					
26	-15.7	-23.4	-19.6	37.6			75	53				22	12.8	NNW	NNW24	9.4					
27	-12.8	-22.9	-17.9	35.9			80	62		1.0	0.6	22	14.8	S	S 20*	3.2					
28	-16.0	-26.2	-21.1	39.1			81	48		TR.	TR.	22	18.8	NNW	N 30	7.6					
MEAN MOYENNE	-13.2	-23.7	-18.5	1021.2	TOTAL 0.0	TOTAL 0.0	78	58	TOT 0	TOTAL 0.2	TOTAL 6.2	TOTAL 5.6		17.3	PREVAILING DIRECTION DOMINANTE W	MAXIMALE S 59	TOTAL 204.2				
NORMAL NORMALE	-10.1	-21.0	-15.6	948.6	0.0	0.0			0	0.7	18.9	17.5		18.1	S		144.2				
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		1021.2	976.3	948.6	TOTAL FOR MONTH TOTAL DU MOIS		0.0	0.0	0.0	6	3	0	0	0	6	4	0	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET		4329.0	4116.8	4383.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL		2142.7	2029.7	1783.2	6	3	0	0	0	6	4	0	0	0		

UDC 551 506 1 ( )

Note/Avis

- Climatological Day/Journée climatologique 00 01 C S.T. - 00 00 C S.T.
- Normal/Normale 1951-1980
- TR = Trace
- M = Missing/Manquant
- No entry/Pas de valeur = No occurrence/Pas d'événement
- \* 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).
- C = Calm/Calmé
- Price: single issue 2.75; annual (Jan. to Dec.) 27.30/Prix: numéro individuel 2.75; annuel 27.30 (janv. à déc.)

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

WINNIPEG INTERNATIONAL AIRPORT  
AEROPORT INTERN. DE WINNIPEG

1989  
FEBRUARY  
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	-267	-279	-291	-300	-315	-314	-324	-334	-342	-337	-328	-320	-310	-302	-302	-305	-306	-311	-314	-322	-315	-310	-305	-299
2	-295	-297	-296	-293	-295	-307	-324	-319	-332	-323	-327	-327	-316	-316	-307	-306	-309	-317	-326	-330	-330	-337	-336	-334
3	-343	-345	-348	-350	-348	-354	-351	-349	-351	-349	-338	-325	-309	-294	-280	-273	-270	-273	-285	-290	-291	-284	-282	-285
4	-280	-281	-288	-292	-294	-300	-300	-290	-293	-290	-280	-271	-267	-261	-244	-235	-228	-229	-233	-232	-229	-229	-229	-223
5	-216	-212	-217	-213	-209	-220	-230	-226	-222	-212	-206	-197	-189	-161	-161	-157	-151	-146	-145	-148	-144	-149	-141	-132
6	-130	-132	-126	-125	-122	-118	-129	-128	-136	-133	-135	-129	-118	-108	-91	-88	-90	-93	-105	-115	-130	-137	-131	-140
7	-130	-129	-128	-126	-133	-133	-122	-121	-114	-102	-110	-145	-159	-168	-178	-187	-195	-205	-215	-226	-226	-224	-228	-238
8	-238	-244	-238	-250	-257	-260	-269	-274	-276	-268	-256	-243	-230	-223	-213	-209	-205	-210	-220	-225	-215	-216	-211	-198
9	-188	-183	-180	-170	-156	-125	-122	-121	-131	-114	-114	-111	-114	-114	-113	-112	-110	-121	-126	-131	-134	-139	-135	-130
10	-144	-139	-130	-119	-104	-97	-84	-72	-65	-67	-57	-49	-49	-40	-30	-32	-40	-51	-59	-83	-81	-84	-83	-84
11	-88	-91	-83	-80	-75	-65	-70	-71	-68	-70	-68	-56	-51	-32	-25	-24	-28	-29	-44	-52	-53	-62	-64	-63
12	-81	-83	-90	-106	-103	-107	-119	-116	-112	-105	-88	-79	-64	-53	-41	-33	-26	-26	-32	-50	-49	-55	-58	-77
13	-74	-53	-51	-50	-42	-45	-59	-84	-103	-115	-122	-116	-118	-116	-119	-118	-117	-125	-141	-131	-125	-138	-121	-123
14	-132	-147	-155	-164	-169	-175	-182	-178	-177	-172	-162	-161	-149	-148	-153	-166	-174	-192	-205	-228	-236	-244	-257	-266
15	-293	-293	-295	-298	-323	-316	-331	-334	-324	-307	-287	-275	-266	-256	-239	-232	-234	-241	-251	-260	-273	-271	-275	-265
16	-282	-318	-318	-306	-301	-309	-318	-309	-307	-304	-275	-254	-244	-245	-238	-230	-227	-233	-246	-256	-256	-252	-266	-248
17	-283	-299	-276	-277	-297	-304	-300	-316	-291	-283	-268	-245	-226	-209	-207	-204	-205	-213	-224	-239	-246	-240	-233	-246
18	-253	-259	-251	-254	-247	-256	-255	-260	-250	-231	-214	-194	-182	-161	-150	-140	-137	-143	-160	-170	-178	-187	-188	-185
19	-179	-176	-175	-173	-172	-167	-164	-158	-160	-161	-160	-149	-142	-128	-121	-112	-110	-116	-132	-140	-142	-154	-163	-167
20	-173	-178	-183	-186	-225	-231	-237	-219	-219	-209	-182	-165	-153	-133	-132	-132	-131	-132	-138	-136	-137	-130	-132	-128
21	-134	-139	-142	-135	-126	-154	-139	-128	-156	-158	-152	-139	-134	-132	-129	-129	-132	-139	-147	-173	-183	-196	-213	-226
22	-245	-256	-268	-269	-274	-277	-276	-276	-269	-239	-215	-199	-189	-180	-170	-163	-155	-158	-171	-189	-195	-196	-189	-205
23	-210	-216	-219	-221	-218	-217	-209	-206	-209	-195	-175	-169	-157	-137	-122	-114	-104	-101	-98	-92	-90	-88	-79	-76
24	-74	-72	-67	-57	-50	-32	-39	-39	-43	-43	-34	-22	-16	-8	-10	-2	-3	-5	-8	-12	-12	-16	-20	-31
25	-35	-52	-57	-67	-91	-99	-107	-107	-120	-127	-129	-126	-128	-111	-109	-111	-115	-127	-133	-144	-151	-168	-176	-183
26	-188	-193	-199	-193	-175	-201	-217	-229	-226	-222	-213	-202	-196	-187	-177	-164	-161	-168	-177	-201	-198	-218	-213	-218
27	-223	-224	-213	-207	-196	-192	-190	-186	-183	-176	-171	-162	-155	-142	-139	-136	-134	-139	-140	-141	-139	-148	-169	-171
28	-177	-177	-178	-172	-181	-178	-166	-188	-182	-180	-172	-182	-176	-181	-185	-187	-192	-198	-214	-226	-240	-254	-247	-258

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/Unité = 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	-324	-341	-358	-357	-369	-353	-389	-393	-398	-391	-382	-376	-373	-365	-370	-376	-376	-378	-378	-383	-376	-371	-368	-365
2	-357	-346	-344	-338	-348	-349	-371	-366	-380	-366	-376	-380	-373	-369	-365	-371	-376	-381	-388	-386	-388	-391	-386	-389
3	-393	-401	-396	-401	-401	-407	-403	-404	-407	-403	-393	-385	-371	-354	-343	-338	-336	-336	-339	-343	-338	-334	-335	-338
4	-332	-333	-340	-346	-346	-353	-344	-344	-347	-343	-338	-333	-325	-318	-304	-292	-286	-287	-290	-288	-288	-281	-278	-273
5	-262	-255	-258	-255	-251	-261	-270	-266	-264	-254	-249	-243	-236	-216	-214	-212	-201	-193	-190	-191	-188	-190	-186	-154
6	-153	-153	-148	-142	-141	-136	-146	-147	-152	-152	-156	-152	-149	-143	-134	-130	-132	-130	-136	-145	-158	-160	-154	-161
7	-152	-148	-145	-145	-152	-143	-143	-141	-131	-119	-128	-171	-185	-205	-217	-240	-247	-247	-262	-277	-279	-276	-281	-289
8	-291	-297	-288	-304	-310	-310	-319	-324	-327	-319	-310	-296	-285	-282	-278	-273	-275	-271	-275	-275	-277	-274	-269	-261
9	-252	-246	-240	-217	-198	-178	-161	-154	-162	-146	-148	-143	-144	-149	-150	-149	-151	-157	-161	-159	-159	-163	-155	-156
10	-166	-164	-160	-152	-137	-132	-122	-112	-112	-114	-92	-82	-85	-79	-73	-77	-76	-86	-100	-119	-125	-127	-122	-118
11	-123	-122	-116	-119	-123	-124	-119	-117	-113	-113	-110	-94	-87	-73	-66	-70	-74	-80	-90	-86	-89	-96	-99	-101
12	-111	-112	-118	-129	-127	-128	-138	-139	-136	-131	-122	-121	-108	-98	-89	-81	-72	-71	-77	-86	-86	-92	-97	-108
13	-108	-89	-84	-82	-79	-79	-85	-109	-129	-145	-154	-147	-153	-155	-159	-160	-161	-167	-183	-178	-170	-181	-172	-148
14	-183	-198	-207	-216	-224	-226	-229	-230	-229	-222	-213	-210	-206	-200	-207	-223	-231	-252	-277	-292	-306	-322	-335	-349
15	-364	-370	-370	-368	-385	-380	-391	-388	-379	-365	-353	-339	-344	-326	-327	-313	-316	-318	-325	-323	-326	-328	-329	-318
16	-328	-364	-369	-350	-346	-354	-364	-355	-359	-355	-328	-321	-306	-316	-310	-308	-308	-302	-306	-307	-310	-305	-314	-311
17	-333	-346	-323	-329	-349	-353	-348	-364	-343	-332	-322	-304	-295	-284	-281	-278	-279	-281	-282	-292	-297	-297	-300	-306
18	-309	-306	-309	-314	-318	-326	-326	-333	-331	-319	-297	-275	-264	-246	-230	-220	-212	-215	-225	-229	-234	-238	-239	-238
19	-236	-236	-236	-238	-234	-228	-224	-216	-213	-214	-209	-200	-192	-183	-168	-168	-174	-172	-178	-184	-190	-191	-209	-215
20	-219	-220	-223	-232	-269	-274	-280	-261	-262	-256	-234	-220	-207	-188	-173	-171	-170	-173	-174	-168	-166	-161	-167	-167
21	-172	-174	-176	-167	-149	-181	-174	-167	-191	-183	-181	-185	-175	-176	-180	-176	-189	-193	-190	-225	-240	-261	-275	-284
22	-296	-307	-315	-315	-321	-322	-317	-317	-310	-287	-271	-264	-252	-243	-234	-220	-209	-212	-220	-234	-239	-242	-234	-250
23	-254	-261	-262	-264	-261	-259	-248	-249	-251	-238	-219	-212	-198	-170	-155	-143	-127	-116	-112	-104	-103	-99	-88	-85
24	-85	-80	-75	-62	-51	-37	-48	-48	-54	-53	-43	-30	-28	-24	-34	-27	-26	-26	-35	-37	-40	-32	-27	-44
25	-48	-76	-80	-87	-110	-116	-127	-143	-151	-155	-152	-156	-143	-148	-146	-144	-155	-167	-173	-180	-183	-207	-207	-220
26	-230	-232	-235	-231	-221	-246	-257	-270	-266	-266	-257	-253	-248	-241	-229	-229	-229	-227	-239	-252	-252	-252	-247	-259
27	-266	-266	-256	-255	-248	-240	-235	-236	-230	-220	-213	-203	-191	-177	-175	-170	-179	-174	-174	-169	-166	-176	-198	-199
28	-209	-207	-211	-200	-213	-210	-191	-231	-220	-215	-211	-247	-236	-249	-242	-252	-263	-272	-284	-300	-307	-316	-315	-324

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 localite  
 3. Unit/Unite = 0.1°C

It was a record bright sunny month with cold temperatures.

Although no temperature records were set, there was no doubt that it was a cold month. In fact, the mean temperature of -18.5 (normal -15.6) was colder than January's -15.8. Average high for the month was -13.2 (normal -10.1) and the average low was -23.7 (normal -21.0). Extremes recorded during February were 0.0 on the 24th and -35.6 on the 3rd.

Precipitation was well below normal. Rainfall was 0.2 mm (normal 0.7 mm) and snowfall 6.2 cm (normal 18.9 cm). in spite of these puny amounts, over winter precipitation (since Nov. 1, 1988) is 121% of the normal, thanks to heavy snow in January.

The hours of bright sunshine shattered a record that had stood since 1907. 204.2 hours were measured beating 185.9 by a healthy margin. The normal is 144.2 hrs. Wind speed averaged 17.3 km/h for the month, slightly below the normal of 18.1.

DAILY WEATHER SUMMARY FOR FEBRUARY 1989AT WINNIPEG, MANITOBA

1. Sunny. Temperatures well below normal. Winds light.
2. Overcast with light snow early in the morning sunny throughout the rest of the day. Temperatures well below normal. Winds light.
3. Sunny. Temperatures well below normal. Winds light with a few periods of moderate near noon.
4. Sunny. Temperatures well below normal. Winds light.
5. Cloudy with snow and ice crystals early in the morning, clear through the day becoming overcast with light snow in the evening. Temperatures slightly below normal. Winds light.
6. Cloudy with light snow early in the morning, sunny with a few cloudy periods throughout the rest of the day. Temperatures above normal. Winds light.
7. Cloudy to overcast with snow and blowing snow, clearing in the afternoon. Temperatures slightly above normal. Winds light becoming moderate with a few strong gusts by midmorning, reducing to light late in the evening.
8. Clear. Temperatures below normal. Wind light becoming moderate in the evening.
9. Cloudy to overcast with periods of light snow, clearing by noon. Temperatures slightly above normal. Winds moderate reducing to light in the afternoon.
10. Cloudy in the morning, sunny in the afternoon. Temperatures well above normal. Winds moderate becoming light in the evening.
11. Cloudy early in the morning becoming sunny in the morning. Temperatures well above normal. Winds moderate becoming light in the evening.
12. Sunny. Temperatures well above normal. Winds moderate occasionally gusting strong in the afternoon, reducing to light in the evening.
13. Sunny with a few cloudy periods in the morning, light snow starting in the evening. Temperatures above normal. Winds moderate occasionally gusting strong, becoming light late in the afternoon.
14. Sunny. Temperatures below normal. Winds light with occasional moderate periods throughout the day.
15. Sunny. Temperatures well below normal. Winds light.
16. Sunny. Temperatures well below normal. Winds light.
17. Sunny. Temperatures well below normal. Winds light.
18. Sunny. Temperatures well below normal. Winds light becoming moderate by midmorning and light again by mid-afternoon.
19. Cloudy becoming sunny by mid-morning. Temperature near normal. Winds light with a few moderate periods in the morning.
20. Sunny with a few clouds in the afternoon. Temperatures slightly below normal. Winds light.
21. Sunny with a few cloudy periods and very light snow in the evening. Temperatures slightly below normal. Winds moderate.
22. Sunny. Temperatures below normal. Winds light becoming moderate in the late afternoon.
23. Sunny in the morning becoming cloudy to overcast with blowing snow by noon. Temperatures near normal. Winds moderate to strong with gale force gusts diminishing slightly in the evening.
24. Overcast with light freezing drizzle and light snow, freezing drizzle and snow stopping by noon. Winds light to moderate until midmorning then light for the rest of the day. Temperatures well above normal.
25. Sunny with a few clouds. Temperatures above normal. Winds moderate except for a period of light winds in the morning.
26. Sunny. Temperatures below normal. Winds light.
27. Cloudy to overcast with light snow, a few sunny periods. Temperatures below normal. Winds light.
28. Cloudy with light snow in the morning clearing by midmorning. Temperatures well below normal. Winds light becoming moderate by midmorning and light again in the evening.