



Environment Canada
Atmospheric Environment Service

Environnement Canada
Service de l'environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS FEBRUARY / FEVIER 19 88

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

LAT. 49° 54' N		LONG. 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) MÉTRES (NMM)		STANDARD TIME USED HEURE NORMALE UTILISÉE		CENTRAL									
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		PRECIPITATION PRÉCIPITATIONS			WIND VENT		BRIGHT SUNSHINE INSOLATION EFFECTIVE HOURS HEURES					
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFÉE	GROWING DE CROISSANCE	COOLING DE RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE	SNOW ON GROUND NEIGE AU SOL		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	cm	km/h		km/h			
1	-22.8	-31.2	-27.0	45.0			66	51					15	10.1	W	W 17	8.9		
2	-18.6	-30.0	-24.3	42.3			68	59			TR.	TR.	9	17.8	S	SSE31	0.4		
3	-23.5	-30.0	-26.8	44.8			67	55					10	12.1	NW	NW20*	7.2		
4	-21.6	-30.5	-26.1	44.1			65	53			TR.	TR.	10	13.0	NW	NW 37	3.0		
5	-19.8	-28.0	-23.9	41.9			65	53			TR.	TR.	10	24.0	W	NW 39*	6.6		
6	-17.3	-25.5	-21.4	39.4			74	51			1.2	1.2	10	15.8	S	SSW30*	0.0		
7	-19.7	-26.3	-23.0	41.0			66	53			TR.	TR.	11	16.7	NW	NW 28*	9.1		
8	-14.2	-25.1	-19.7	37.7			66	52			TR.	TR.	11	11.1	SSW	NNW28	0.5		
9	-21.6	-30.2	-25.9	43.9			65	52			TR.	TR.	11	15.7	NNW	N 28	8.2		
10	-21.9	-30.8	-26.4	44.4			67	52					11	11.8	W	NW 19	9.3		
11	-19.1	-30.6	-24.9	42.9			67	51					11	21.7	S	SSE37	8.0		
12	-16.0	-23.2	-19.6	37.6			75	60			TR.	TR.	11	18.4	S	S 35	5.2		
13	-6.2	-17.9	-12.1	30.1			82	70			0.2	0.2	11	21.5	SSE	S 31	0.0		
14	-8.5	-25.9	-17.2	35.2			86	43			1.2	0.8	10	26.7	N	NNW44	7.1		
15	-9.0	-27.0	-18.0	36.0			91	61			5.8	5.8	10	24.0	S	SSE50	0.0		
16	-7.3	-15.1	-11.2	29.2			83	67			TR.	TR.	11	17.6	NW	NW 31*	4.6		
17	0.5	-15.1	-7.3	25.3			90	64			0.4	0.2	11	12.0	S	S 24	4.1		
18	0.4	-6.0	-2.8	20.8			89	77		TR.	TR.	TR.	11	11.5	SSW	WNW19	3.2		
19	0.3	-23.6	-11.7	29.7			91	47			1.8	1.8	12	28.7	N	N 46	6.3		
20	-12.6	-27.4	-20.0	38.0			69	44			TR.	TR.	12	13.8	S	S 26	9.5		
21	2.3	-12.7	-5.2	23.2			90	70		0.3	0.4	0.7	12	17.7	S	S 30*	0.0		
22	1.0	-18.5	-8.8	26.8			78	51			TR.	TR.	12	33.8	NNW	NNW52*	8.5		
23	-12.1	-16.9	-14.5	32.5			68	55					12	24.0	W	NW 39*	7.7		
24	-11.2	-19.3	-15.3	33.3			72	50					12	19.1	WNW	WNW35	10.0		
25	2.8	-20.1	-8.7	26.7			78	57					12	14.8	S	S 30	8.7		
26	0.7	-8.3	-3.8	21.8			79	58					12	12.8	NNW	NW 22	10.2		
27	4.8	-10.8	-3.0	21.0			85	69					11	20.8	S	S 31*	7.9		
28	6.3	-3.4	1.5	16.5			81	48		TR.		TR.	08	19.6	NW	NW 31	10.4		
29	-3.0	-11.3	-7.2	25.2			73	48					02	14.7	NNE	S 26	4.7		
MEAN MOYENNE	-9.9	-21.4	-15.7	TOTAL 976.3	TOTAL 0.0	TOTAL 0.0	76	56	TOT 0	TOTAL 0.3	TOTAL 11.0	TOTAL 10.7		18.0	PREVAILING DIRECTION DOMINANTE S	MAXIMALE NNW52	TOTAL 169.3		
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 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	mm					cm						
								02	10	20	100	500	02	10	20	100	500		
								OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE		
								OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	976.3	684.0	948.6	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	7	3	1	0	0	7	4	1	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	4116.8	3948.9	4383.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	2029.7	1775.6	1783.2												

UDC 551.506.1 () Note/Avls 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/Calmé
8. Price: single issue \$2.75; annual (Jan. to Dec.) \$27.30/Prix: numéro individuel \$2.75; annuel \$27.30 (janv. à déc.)



Date	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	-283	-280	-283	-287	-290	-292	-302	-303	-310	-307	-299	-293	-268	-259	-261	-258	-268	-272	-271	-275	-275	-282	-277
2	-281	-291	-290	-299	-292	-298	-292	-285	-280	-265	-257	-243	-227	-214	-202	-192	-189	-200	-219	-224	-228	-226	-237
3	-254	-257	-259	-265	-273	-275	-274	-282	-285	-285	-277	-263	-254	-248	-242	-239	-248	-269	-275	-289	-278	-287	-296
4	-299	-300	-301	-293	-289	-285	-287	-298	-294	-289	-268	-257	-255	-241	-222	-220	-225	-233	-237	-248	-254	-268	-274
5	-274	-279	-276	-279	-279	-276	-268	-259	-256	-251	-244	-235	-221	-207	-200	-203	-208	-218	-223	-227	-238	-246	-235
6	-239	-233	-234	-246	-251	-250	-250	-252	-251	-242	-230	-215	-203	-186	-182	-176	-175	-177	-177	-179	-183	-187	-199
7	-208	-202	-212	-214	-216	-223	-229	-231	-239	-241	-230	-227	-219	-212	-210	-206	-203	-208	-220	-230	-241	-242	-262
8	-249	-245	-235	-232	-235	-243	-236	-230	-223	-219	-211	-198	-179	-165	-150	-149	-147	-150	-164	-170	-191	-190	-201
9	-217	-237	-250	-263	-272	-281	-283	-292	-302	-295	-285	-271	-263	-259	-255	-256	-256	-261	-271	-280	-271	-277	-291
10	-272	-283	-289	-296	-293	-291	-295	-308	-298	-297	-270	-259	-250	-236	-225	-222	-229	-242	-250	-264	-253	-274	-282
11	-277	-275	-276	-296	-289	-302	-303	-298	-301	-289	-264	-237	-223	-208	-203	-200	-196	-199	-204	-208	-212	-217	-222
12	-209	-205	-210	-219	-222	-226	-228	-227	-232	-219	-209	-201	-190	-175	-172	-165	-164	-167	-172	-178	-181	-182	-183
13	-178	-175	-175	-159	-155	-154	-151	-146	-139	-126	-106	-106	-102	-91	-81	-74	-69	-71	-67	-67	-65	-79	-85
14	-89	-88	-87	-93	-92	-101	-104	-118	-134	-159	-169	-168	-170	-166	-167	-161	-166	-173	-192	-204	-221	-223	-258
15	-246	-242	-268	-252	-255	-245	-242	-231	-215	-205	-191	-180	-168	-157	-145	-133	-127	-123	-120	-116	-109	-101	-93
16	-92	-75	-81	-83	-88	-90	-95	-101	-103	-98	-94	-90	-92	-100	-101	-101	-107	-118	-131	-131	-145	-142	-143
17	-144	-133	-132	-111	-104	-91	-82	-81	-69	-59	-46	-38	-26	-8	-1	0	-9	-16	-41	-55	-70	-72	-62
18	-55	-53	-54	-54	-50	-50	-50	-54	-55	-34	-24	-13	-9	-4	-3	0	4	-1	-21	-33	-43	-51	-48
19	-34	-32	-29	-25	-17	-12	-12	-6	1	-10	-17	-42	-69	-96	-113	-117	-126	-143	-160	-177	-190	-201	-209
20	-235	-247	-264	-262	-265	-270	-271	-268	-255	-235	-228	-214	-199	-186	-177	-167	-156	-147	-148	-144	-140	-132	-128
21	-127	-122	-121	-117	-111	-105	-99	-94	-86	-78	-56	-48	-33	-15	8	17	21	19	19	6	6	8	7
22	3	8	-47	-102	-124	-128	-143	-154	-166	-160	-149	-146	-145	-137	-140	-145	-150	-157	-171	-180	-178	-180	-176
23	-168	-154	-162	-157	-152	-156	-150	-153	-148	-143	-134	-130	-128	-127	-124	-131	-130	-129	-138	-154	-164	-152	-155
24	-157	-166	-168	-171	-170	-175	-178	-183	-186	-172	-154	-145	-141	-138	-130	-119	-117	-119	-131	-147	-166	-172	-160
25	-193	-187	-190	-198	-194	-192	-197	-176	-176	-146	-122	-92	-71	-44	-27	-10	-6	24	18	15	5	12	4
26	5	-19	-38	-55	-58	-54	-52	-68	-80	-60	-34	-13	-14	-12	-8	-2	-5	-10	-28	-48	-57	-69	-77
27	-83	-85	-85	-91	-87	-90	-75	-80	-72	-51	-32	-5	12	22	29	38	37	40	37	30	32	41	36
28	30	25	19	15	11	7	2	-7	-6	7	26	33	42	45	52	58	60	51	28	9	4	-14	-13
29	-31	-37	-51	-62	-79	-87	-94	-104	-111	-109	-102	-94	-85	-69	-65	-61	-61	-57	-57	-56	-53	-48	-47

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 C.S.T.
 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	-345	-344	-346	-348	-348	-351	-360	-361	-365	-363	-360	-355	-333	-321	-323	-322	-325	-327	-328	-327	-330	-331	-333	-335
2	-334	-343	-342	-347	-344	-346	-344	-337	-333	-318	-311	-295	-280	-266	-253	-245	-239	-242	-251	-267	-270	-274	-271	-287
3	-302	-306	-310	-316	-324	-326	-322	-329	-336	-336	-328	-316	-310	-302	-301	-305	-305	-315	-331	-333	-344	-340	-340	-338
4	-344	-347	-348	-344	-338	-333	-332	-347	-349	-339	-316	-316	-311	-292	-275	-280	-286	-296	-296	-315	-322	-333	-331	-332
5	-332	-341	-332	-342	-344	-339	-328	-321	-318	-316	-307	-299	-285	-276	-266	-272	-274	-280	-284	-282	-285	-293	-299	-294
6	-299	-295	-291	-302	-305	-304	-308	-309	-308	-301	-291	-285	-269	-254	-248	-247	-236	-229	-220	-219	-221	-223	-226	-241
7	-249	-248	-259	-266	-269	-279	-282	-286	-295	-295	-291	-288	-289	-280	-275	-277	-276	-285	-290	-288	-295	-293	-300	-312
8	-300	-295	-285	-286	-289	-294	-287	-281	-275	-271	-264	-254	-239	-224	-224	-213	-207	-205	-207	-224	-235	-249	-245	-261
9	-275	-304	-317	-327	-330	-339	-338	-346	-355	-347	-339	-326	-320	-321	-320	-325	-325	-327	-334	-342	-332	-339	-355	-331
10	-327	-342	-344	-355	-350	-351	-346	-362	-356	-357	-333	-322	-311	-301	-294	-290	-296	-300	-307	-307	-314	-308	-325	-327
11	-322	-323	-323	-341	-337	-349	-355	-350	-351	-338	-316	-297	-283	-273	-263	-259	-254	-256	-265	-273	-280	-289	-282	-275
12	-267	-261	-261	-272	-275	-279	-283	-280	-285	-275	-259	-249	-237	-227	-221	-214	-212	-214	-218	-221	-223	-222	-224	-224
13	-218	-216	-212	-194	-191	-186	-185	-187	-182	-174	-157	-132	-133	-129	-122	-117	-116	-115	-113	-110	-110	-106	-120	-120
14	-118	-111	-110	-122	-122	-129	-138	-151	-166	-191	-199	-201	-202	-209	-212	-214	-225	-236	-280	-284	-291	-298	-304	-312
15	-302	-295	-311	-295	-301	-292	-289	-280	-269	-256	-240	-226	-218	-199	-179	-162	-148	-144	-139	-144	-130	-122	-120	-106
16	-114	-98	-105	-109	-119	-121	-127	-133	-136	-132	-126	-127	-135	-136	-138	-144	-144	-154	-162	-171	-172	-179	-173	-172
17	-174	-172	-161	-140	-129	-115	-110	-105	-95	-89	-80	-72	-64	-63	-58	-51	-58	-61	-64	-73	-69	-92	-91	-81
18	-72	-73	-71	-76	-76	-73	-73	-78	-80	-63	-58	-51	-42	-35	-37	-29	-25	-27	-49	-54	-67	-74	-66	-50
19	-57	-61	-58	-54	-50	-45	-28	-19	-28	-37	-48	-76	-107	-146	-162	-191	-190	-211	-228	-247	-261	-266	-300	-296
20	-308	-317	-330	-322	-322	-324	-323	-316	-306	-289	-287	-281	-280	-274	-258	-260	-243	-218	-213	-212	-207	-200	-190	-180
21	-172	-163	-153	-147	-137	-130	-122	-114	-107	-98	-76	-68	-53	-32	-19	-16	-15	-13	-14	-15	-9	-8	-28	-19
22	-23	-25	-88	-156	-168	-173	-198	-209	-213	-209	-203	-203	-201	-206	-202	-209	-230	-236	-237	-242	-240	-229	-216	-223
23	-211	-211	-215	-213	-213	-216	-214	-214	-211	-204	-195	-185	-179	-192	-192	-193	-190	-194	-198	-207	-212	-217	-208	-209
24	-212	-218	-220	-225	-224	-229	-231	-236	-238	-228	-216	-212	-207	-201	-197	-194	-198	-194	-196	-207	-217	-231	-217	-220
25	-231	-225	-229	-228	-225	-223	-230	-214	-216	-195	-176	-148	-142	-116	-96	-76	-57	-34	-30	-31	-38	-43	-42	-43
26	-44	-60	-76	-93	-98	-102	-102	-114	-122	-111	-100	-90	-80	-81	-71	-66	-57	-59	-79	-104	-104	-101	-107	-115
27	-117	-121	-121	-126	-116	-125	-123	-123	-116	-98	-73	-45	-25	-14	-4	4	6	9	9	5	6	11	-4	-3
28	-4	-4	-8	-15	-28	-38	-43	-52	-51	-42	-37	-44	-43	-45	-42	-45	-35	-36	-43	-47	-51	-58	-54	-63
29	-77	-77	-93	-105	-125	-135	-144	-152	-163	-164	-164	-158	-164	-149	-150	-155	-140	-124	-122	-116	-110	-107	-108	-96

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

CLIMATOLOGICAL SUMMARY FOR FEBRUARY 1988**AT WINNIPEG, MANITOBA**

February was quite dry with 61% of normal precipitation recorded. Cold temperatures during the first part of the month and high windchill values produced several bitter days.

The high temperature for the month was a very balmy 6.3°C on the 28th while at the other end of the scale the lowest temperature reached -31.2°C on the 1st.

Sunshine hours were substantially above normal. Wind speeds averaged slightly below average.

DAILY WEATHER SUMMARY FOR FEBRUARY 1988**AT WINNIPEG, MANITOBA**

1. Sunny. Temperatures below normal. Winds light.
2. Cloudy. Temperatures below normal. Winds light becoming moderate with gusts to light in the evening.
3. Sunny. Temperatures below normal. Winds light.
4. Sunny with a few cloudy periods. Temperatures below normal. Winds light becoming moderate in the afternoon.
5. Sunny with some cloudy periods. Temperatures below normal. Winds moderate with strong gusts becoming light in the evening.
6. Cloudy with light snow and ice crystals. Temperatures below normal. Winds light.
7. Sunny. Temperatures below normal. Winds moderate becoming light early afternoon.
8. Cloudy. Temperatures below normal. Winds light.
9. Sunny. Temperatures below normal. Winds light.
10. Sunny. Temperatures below normal. Winds light.
11. Sunny. Temperatures below normal. Winds light becoming moderate with strong gusts.
12. Cloudy with light snow becoming sunny in the early afternoon. Temperatures below normal. Winds moderate becoming light.
13. Cloudy with some light snow. Temperatures above normal. Winds moderate with some strong gusts becoming light in the evening.
14. Cloudy with light snow and blowing snow becoming sunny in the afternoon. Temperatures above normal. Winds strong with gusts becoming light in the evening.
15. Cloudy with some light snow and blowing snow. Temperatures slightly above normal. Light winds becoming strong with gusts.
16. Cloudy becoming sunny in the afternoon. Temperatures above normal. Winds light changing to moderate at times.
17. Mainly cloudy. Temperatures above normal. Winds light.
18. Cloudy. Temperatures above normal. Winds light.
19. Cloudy with light snow becoming sunny by noon. Temperatures above normal. Winds moderate becoming strong with gusts.
20. Sunny becoming cloudy with light snow in the evening. Temperatures below normal. Winds light.
21. Cloudy with light snow. Temperatures above normal. Winds moderate with strong gusts.
22. Cloudy with light snow becoming sunny late morning. Temperatures above normal. Winds strong with gusts becoming light in the evening.
23. Sunny with some cloudy periods. Temperatures below normal. Winds moderate with strong gusts becoming light.
24. Sunny. Temperatures below normal. Winds light becoming moderate by noon to light in the evening.
25. Sunny. Temperatures above normal. Winds light.
26. Sunny. Temperatures above normal. Winds light.
27. Sunny. Temperatures above normal. Winds light becoming moderate with strong gusts.
28. Sunny. Temperatures above normal. Winds light becoming moderate with gusts to light in the evening.
29. Cloudy. Temperatures above normal. Winds moderate with a few gusts becoming light.