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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JANUARY / JANVIER 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			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 RÉFÉRIERATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	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	HOURS HEURES			
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%	mm	cm	mm	cm	km/h		km/h						
1	-15.4	-24.4	-19.9	37.9			78	57			0.4	0.4	4	15.5	W	S 24	7.6				
2	-9.7	-18.9	-14.3	32.3			90	67			1.4	1.4	5	13.8	S	S 20	0.0				
3	-10.1	-28.1	-19.1	37.1			91	52			TR.	TR.	5	31.8	NW	NW 44*	1.9				
4	-27.3	-29.3	-28.3	46.3			67	53			TR.	TR.	5	28.5	NW	NW 37	4.2				
5	-25.0	-31.2	-28.1	46.1			64	52					5	11.6	WNW	WNW20	7.7				
6	-20.5	-31.1	-25.8	43.8			74	56					5	18.5	S	S 35	3.8				
7	-15.7	-21.3	-18.5	36.5			76	60			TR.	TR.	5	10.9	W	S 20*	6.2				
8	-18.8	-27.7	-23.3	41.3			70	52			TR.	TR.	5	15.0	NW	NW 26	7.8				
9	-12.0	-26.2	-19.1	37.1			70	53					5	17.8	S	S 30	7.0				
10	-14.7	-25.4	-20.1	38.1			79	59					5	6.1	NW	SW 15	0.1				
11	-19.2	-27.5	-23.4	41.4			74	57					5	9.7	NE	NNE33	0.0				
12	-18.8	-27.6	-23.2	41.2			73	52					5	12.0	NW	NNE22*	6.4				
13	-23.1	-33.0	-28.1	46.1			74	56			TR.	TR.	5	8.1	N	S 20	5.6				
14	-10.6	-23.2	-16.9	34.9			87	57			1.8	1.8	6	21.8	S	S 37*	2.8				
15	-2.3	-18.8	-10.6	28.6			90	75					7	17.5	SE	S 30	0.0				
16	1.0	-9.1	-4.1	22.1			90	61		0.4		0.4	6	16.4	NW	WNW24*	6.1				
17	-7.7	-21.1	-14.4	32.4			86	70					5	7.9	NNE	NW 17	8.0				
18	-6.3	-18.4	-12.4	30.4			89	74			1.8	1.2	5	6.2	ENE	ENE11	0.4				
19	-8.3	-16.2	-12.3	30.3			89	81			0.6	TR.	7	12.7	NW	NNE22	0.0				
20	-12.8	-21.5	-17.2	35.2			88	73			0.2	TR.	11	8.0	NNW	N 17	6.7				
21	-1.8	-19.0	-10.4	28.4			85	76			TR.	TR.	11	26.3	S	S 35*	4.2				
22	-7.2	-22.7	-15.0	33.0			86	61			0.2	0.2	11	24.2	NNW	NNW46	6.8				
23	-12.7	-21.1	-16.9	34.9			82	65			0.4	0.4	11	12.0	S	S 24	1.2				
24	-10.2	-25.7	-18.0	36.0			90	58			1.4	1.2	12	27.8	N	N 43*	3.7				
25	-20.4	-28.9	-24.7	42.7			70	58			TR.	TR.	13	8.2	S	NNW15*	7.1				
26	-17.1	-27.1	-22.1	40.1			70	58			TR.	TR.	13	11.4	S	NNW17	6.1				
27	-14.8	-19.9	-17.4	35.4			70	60			TR.	TR.	13	6.0	NNE	SE 11	3.5				
28	-7.7	-18.9	-13.3	31.3			89	62			TR.	TR.	13	22.9	S	S 41	0.0				
29	-6.2	-12.2	-9.2	27.2			89	77			TR.	TR.	13	17.8	N	N 30*	0.0				
30	-11.9	-19.4	-15.7	33.7			84	77			1.0	0.9	13	25.4	N	NNE31	0.0				
31	-19.1	-28.6	-23.9	41.9			81	47			1.0	0.9	15	22.7	NW	NW 33	5.4				
MEAN MOYENNE	-13.1	-23.3	-18.2	1123.7	0.0	0.0	80	62	0	0.4	10.2	8.8		15.9	DOMINANTE	NNW46	120.3				
NORMAL NORMALE	-14.3	-24.2	-19.3	1154.7	0.0	0.0			0	0.2	23.7	21.3		18.6	S		121.2				
DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS												DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS					DAYS WITH SNOWFALL JOURS AVEC CHÛTE DE NEIGE				
BELOW 18°C AU-DESSUS 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	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	1123.7	923.4	1154.7	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0														
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	3140.5	3264.9	3434.6	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	2029.7	1775.6	1783.2	10	4	0	0	0	10	5	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/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/Calm

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



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	-223	-225	-228	-241	-232	-236	-232	-229	-232	-238	-226	-213	-195	-185	-180	-179	-178	-178	-182	-170	-161	-159	-159	-155
2	-155	-152	-147	-154	-170	-174	-173	-181	-182	-188	-167	-152	-152	-147	-151	-146	-139	-132	-133	-128	-110	-101	-100	-117
3	-119	-112	-105	-134	-176	-190	-211	-229	-230	-224	-206	-210	-209	-215	-225	-229	-229	-243	-251	-259	-265	-269	-274	-278
4	-281	-282	-282	-281	-284	-288	-285	-287	-289	-292	-290	-288	-282	-278	-277	-275	-276	-278	-283	-287	-286	-287	-289	-289
5	-291	-295	-299	-300	-296	-299	-306	-303	-303	-329	-298	-284	-278	-266	-259	-255	-254	-266	-269	-272	-293	-285	-288	-298
6	-307	-295	-295	-299	-305	-308	-306	-298	-304	-288	-274	-257	-243	-231	-223	-218	-216	-215	-218	-219	-223	-224	-212	-209
7	-206	-207	-208	-212	-203	-197	-185	-208	-187	-209	-194	-185	-175	-163	-167	-164	-166	-181	-189	-173	-164	-165	-173	-189
8	-188	-209	-223	-237	-241	-246	-251	-269	-262	-260	-255	-247	-242	-234	-229	-228	-230	-244	-255	-254	-258	-265	-265	-267
9	-261	-251	-248	-260	-257	-251	-246	-246	-245	-229	-218	-192	-170	-158	-142	-123	-124	-129	-132	-140	-144	-146	-144	-146
10	-148	-160	-171	-191	-215	-211	-214	-208	-230	-222	-200	-182	-175	-164	-160	-156	-155	-167	-200	-210	-213	-216	-219	-241
11	-254	-238	-250	-246	-237	-265	-257	-275	-270	-270	-239	-229	-218	-204	-197	-196	-199	-199	-199	-199	-197	-198	-200	-201
12	-204	-208	-216	-220	-222	-227	-232	-240	-249	-256	-259	-240	-221	-205	-196	-194	-193	-201	-212	-233	-227	-255	-264	-260
13	-269	-270	-274	-279	-292	-313	-309	-315	-315	-325	-304	-289	-270	-259	-247	-239	-241	-257	-260	-269	-260	-250	-243	-239
14	-232	-222	-214	-203	-184	-170	-163	-160	-160	-154	-149	-141	-138	-129	-120	-110	-111	-127	-142	-146	-152	-160	-163	-167
15	-169	-179	-184	-182	-182	-177	-168	-156	-143	-138	-124	-103	-84	-70	-56	-41	-28	-29	-35	-36	-43	-40	-40	-31
16	-26	-16	-8	-11	-13	-18	-35	-41	-40	-48	-48	-48	-38	-32	-11	-4	-6	-8	-8	-16	-7	-27	-29	-60
17	-86	-101	-110	-109	-106	-106	-105	-113	-125	-152	-139	-127	-123	-118	-117	-118	-121	-139	-157	-176	-169	-191	-197	-194
18	-178	-182	-158	-148	-152	-149	-149	-152	-142	-142	-127	-109	-96	-77	-78	-74	-66	-69	-70	-84	-84	-88	-86	-89
19	-87	-90	-88	-87	-94	-94	-121	-148	-162	-131	-119	-133	-119	-107	-104	-105	-108	-121	-127	-108	-111	-108	-118	
20	-132	-192	-195	-209	-215	-193	-192	-192	-176	-188	-191	-183	-177	-169	-159	-159	-149	-163	-173	-157	-167	-180	-188	-187
21	-179	-180	-175	-156	-155	-149	-138	-130	-122	-123	-122	-115	-106	-89	-73	-62	-57	-45	-31	-26	-20	-26	-40	-49
22	-72	-90	-101	-122	-154	-177	-186	-186	-192	-204	-206	-202	-201	-197	-195	-196	-198	-210	-208	-208	-219	-214	-213	-213
23	-209	-207	-203	-198	-194	-195	-191	-187	-188	-189	-181	-172	-168	-163	-162	-162	-161	-156	-154	-150	-147	-148	-141	-135
24	-127	-117	-115	-103	-117	-133	-145	-147	-153	-157	-165	-168	-176	-176	-176	-179	-188	-197	-208	-222	-230	-240	-248	-252
25	-255	-264	-275	-283	-280	-289	-282	-278	-281	-280	-263	-241	-227	-219	-215	-210	-210	-220	-228	-231	-239	-242	-244	-252
26	-253	-255	-262	-261	-261	-267	-269	-267	-266	-263	-247	-228	-209	-199	-188	-182	-177	-175	-180	-197	-195	-186	-173	-174
27	-180	-180	-178	-181	-179	-179	-180	-179	-180	-181	-180	-178	-172	-169	-162	-154	-150	-160	-168	-172	-179	-189	-193	-195
28	-183	-181	-175	-175	-172	-163	-153	-144	-133	-121	-111	-104	-98	-93	-88	-84	-82	-80	-78	-80	-80	-82	-84	-93
29	-88	-81	-86	-89	-81	-86	-81	-82	-103	-116	-94	-83	-75	-72	-66	-70	-70	-78	-84	-87	-90	-92	-100	-112
30	-122	-126	-129	-133	-140	-141	-147	-148	-148	-150	-153	-152	-148	-138	-133	-13	-138	-146	-149	-159	-162	-165	-173	-181
31	-191	-201	-208	-212	-219	-228	-231	-243	-250	-254	-247	-242	-246	-244	-246	-242	-246	-254	-266	-274	-276	-281	-284	-285

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

WINNIPEG INTERNATIONAL AIRPORT
AÉROPORT INTERN. DE WINNIPEG

HOURLY DEW POINT TEMPERATURE AT:
TEMPERATURE DE ROSEE HORAIRE A:

MONTH:
MOIS:

JANUARY
JANVIER

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	-272	-275	-280	-289	-281	-280	-279	-276	-290	-287	-278	-267	-254	-243	-235	-234	-232	-230	-229	-221	-213	-207	-201	-188
2	-186	-181	-174	-178	-198	-202	-203	-212	-216	-225	-198	-187	-192	-183	-194	-190	-168	-170	-160	-152	-124	-117	-121	-139
3	-136	-140	-129	-146	-198	-214	-264	-286	-286	-272	-249	-256	-258	-253	-274	-282	-291	-310	-315	-326	-331	-333	-338	-341
4	-341	-342	-344	-338	-346	-351	-341	-344	-347	-351	-350	-349	-344	-338	-318	-329	-335	-333	-339	-344	-343	-342	-344	-344
5	-347	-353	-358	-349	-349	-351	-356	-355	-356	-355	-354	-345	-338	-327	-324	-327	-325	-327	-323	-323	-344	-341	-344	-346
6	-355	-334	-341	-343	-348	-349	-346	-344	-346	-333	-326	-312	-305	-293	-282	-272	-268	-268	-269	-267	-271	-270	-260	-261
7	-257	-258	-256	-260	-248	-246	-232	-247	-232	-246	-234	-235	-225	-215	-215	-220	-225	-227	-229	-220	-215	-207	-210	-226
8	-241	-274	-295	-302	-306	-304	-304	-316	-313	-314	-311	-301	-297	-292	-289	-286	-289	-295	-302	-297	-299	-304	-316	-309
9	-306	-294	-295	-305	-304	-299	-293	-293	-290	-279	-270	-251	-238	-222	-207	-200	-190	-190	-194	-198	-203	-203	-203	-201
10	-203	-208	-214	-231	-254	-248	-248	-244	-266	-258	-237	-228	-225	-213	-212	-211	-216	-214	-239	-251	-251	-256	-256	-282
11	-295	-280	-295	-290	-287	-301	-299	-300	-321	-309	-279	-267	-255	-242	-235	-238	-246	-250	-249	-252	-254	-249	-256	-253
12	-257	-265	-266	-269	-272	-275	-279	-288	-297	-304	-307	-290	-278	-267	-267	-260	-266	-270	-268	-270	-272	-294	-305	-300
13	-316	-314	-320	-324	-337	-354	-353	-362	-360	-366	-348	-331	-317	-311	-304	-295	-295	-313	-311	-326	-312	-302	-299	-295
14	-285	-278	-272	-255	-224	-203	-194	-190	-189	-185	-177	-169	-162	-153	-143	-132	-132	-146	-160	-162	-170	-180	-185	-189
15	-192	-207	-211	-212	-214	-208	-195	-184	-167	-162	-144	-119	-105	-94	-86	-74	-67	-60	-62	-63	-67	-63	-61	-54
16	-49	-38	-25	-26	-35	-36	-54	-63	-64	-67	-65	-70	-66	-70	-60	-52	-61	-53	-60	-65	-59	-71	-73	-90
17	-112	-124	-135	-133	-131	-130	-138	-141	-152	-165	-174	-164	-164	-160	-157	-165	-160	-168	-179	-203	-195	-212	-220	-228
18	-211	-217	-184	-176	-179	-180	-179	-179	-173	-173	-154	-133	-121	-114	-109	-101	-97	-93	-86	-99	-99	-105	-104	-108
19	-108	-111	-112	-111	-116	-116	-138	-166	-176	-151	-140	-149	-133	-126	-128	-131	-136	-143	-146	-133	-134	-137	-132	-138
20	-148	-202	-211	-230	-238	-216	-215	-216	-198	-208	-206	-201	-198	-191	-184	-182	-183	-203	-193	-178	-194	-203	-211	-209
21	-202	-203	-196	-181	-179	-172	-161	-156	-149	-152	-150	-143	-138	-122	-106	-94	-87	-73	-56	-56	-42	-58	-75	-79
22	-99	-109	-140	-156	-186	-209	-216	-225	-230	-252	-247	-244	-240	-247	-247	-240	-261	-262	-264	-264	-264	-261	-259	-259
23	-252	-252	-247	-243	-240	-238	-235	-233	-227	-229	-225	-219	-219	-213	-209	-206	-207	-203	-195	-191	-183	-181	-171	-162
24	-151	-135	-132	-118	-140	-157	-172	-175	-181	-188	-196	-200	-208	-213	-220	-216	-234	-249	-272	-277	-280	-290	-299	-299
25	-302	-312	-322	-327	-328	-336	-327	-322	-325	-322	-305	-286	-280	-272	-266	-267	-269	-273	-277	-277	-284	-285	-290	-300
26	-293	-301	-306	-307	-307	-315	-319	-315	-314	-311	-295	-280	-266	-252	-243	-234	-227	-221	-223	-243	-238	-232	-221	-223
27	-228	-226	-224	-230	-228	-231	-229	-228	-231	-231	-225	-225	-221	-220	-214	-207	-207	-214	-223	-222	-229	-238	-243	-245
28	-231	-229	-225	-228	-218	-207	-196	-185	-176	-170	-165	-154	-127	-119	-114	-108	-107	-104	-102	-102	-101	-103	-101	-110
29	-103	-98	-103	-106	-98	-103	-98	-102	-122	-135	-112	-100	-91	-88	-84	-92	-103	-105	-115	-116	-121	-121	-127	-140
30	-149	-152	-159	-162	-167	-173	-173	-175	-178	-181	-179	-174	-167	-167	-159	-162	-166	-173	-176	-187	-189	-193	-199	-206
31	-216	-227	-234	-237	-244	-270	-269	-285	-290	-297	-297	-296	-295	-311	-315	-316	-299	-315	-334	-343	-348	-345	-343	-347

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

After a record warm year in 1987, temperatures plunged to below normal values in the first half of January. Moderating temperatures in the second half helped to produce a mean for the month of -18.2°C , which was 1.1°C above normal. There were, however, several days of bitterly cold temperatures and high wind-chill values. The highest temperature for the month was 1.0°C on the 16th and the lowest -33.0°C on the 13th.

It was a very dry month. The precipitation total was only 8.8 mm compared to a normal monthly total of 21.3 mm.

Sunshine hours were nearly normal, within one hour. Wind speed averaged 15.4 km/h, much less than the normal 18.6 km/h.

DAILY WEATHER SUMMARY FOR JANUARY 1988AT WINNIPEG, MANITOBA

1. Sunny, becoming cloudy in the evening with light snow. Temperatures below normal. Winds light.
2. Mainly cloudy with sunny periods late morning becoming cloudy in the afternoon with light snow. Temperatures above normal. Winds light.
3. Cloudy with a few sunny periods. Temperatures above normal. Winds light becoming strong with gusts.
4. Sunny. Temperatures below normal. Winds moderate becoming light in the evening.
5. Sunny. Temperatures below normal. Winds light.
6. Mainly sunny. Temperatures below normal. Winds light becoming moderate with strong gusts in the afternoon.
7. Mainly sunny, some cloudy periods with very light snow in the evening. Temperatures below normal. Winds light.
8. Sunny. Temperatures below normal. Winds light.
9. Sunny. Temperatures slightly above normal. Winds light becoming moderate with gusts in the afternoon.
10. Sunny becoming cloudy late morning, becoming clear by midnight. Temperatures near normal. Winds light.
11. Sunny becoming cloudy in the late morning. Temperatures below normal. Winds light.
12. Cloudy becoming sunny by noon. Temperatures below normal. Winds light.
13. Sunny becoming cloudy late evening. Temperatures below normal. Winds light.
14. Cloudy with light snow and blowing snow becoming clear late evening. Temperatures above normal. Winds moderate with strong gusts becoming light in the afternoon.
15. Clear becoming cloudy in the morning. Temperatures above normal. Winds light becoming moderate with strong gusts in the afternoon.
16. Cloudy with light freezing rain becoming sunny by noon. Temperatures above normal. Winds light.
17. Mainly sunny with cloudy periods in the morning. Temperatures above normal. Winds light.
18. Mainly cloudy with some light snow in the evening. Temperatures above normal. Winds light.
19. Cloudy with light snow. Temperatures above normal. Winds light.
20. Cloudy early morning with light snow, becoming sunny by late morning. Temperatures above normal. Winds light.
21. Mainly cloudy with a few sunny breaks. Temperatures above normal. Winds light becoming moderate with strong gusts.
22. Cloudy with some light snow and blowing snow becoming sunny. Temperatures above normal. Winds moderate with strong gusts becoming light in the afternoon.
23. Mainly cloudy with light snow in the evening. Temperatures above normal. Winds light.
24. Cloudy with light snow and blowing snow becoming sunny in the afternoon. Temperatures above normal. Winds moderate with strong gusts becoming light in the evening.
25. Sunny. Temperatures below normal. Winds light.
26. Sunny. Temperatures below normal. Winds light.
27. Cloudy with some very light snow becoming sunny in the afternoon. Temperatures below normal. Winds light.
28. Mainly cloudy. Temperatures above normal. Winds light becoming moderate with strong gusts.
29. Cloudy. Temperatures above normal. Winds light becoming moderate.
30. Cloudy with light snow. Temperatures above normal. Winds moderate.
31. Cloudy with light snow, becoming sunny in the afternoon. Temperatures below normal. Winds moderate.