

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: **JANUARY / JANVIER** 19 **91**
 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.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	AVERAGE SPEED VITESSE MOYENNE	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. PRÉCIP. TOTALE			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	HOURS HEURES			
1	-23.9	-28.5	-26.2	44.2			69	48			0.4	0.4	15	13.8	W	WNW22*	6.8		
2	-20.8	-28.9	-24.9	42.9			61	53					15	20.0	W	W 26	7.5		
3	-18.1	-24.8	-21.5	39.5			64	53					14	22.1	W	W 31	5.9		
4	-14.8	-19.5	-17.2	35.2			64	49					13	18.4	W	W 30	7.7		
5	-15.5	-27.6	-21.6	39.6			68	51					12	11.7	NNW	NNW19	6.4		
6	-25.2	-31.1	-28.2	46.2			65	43					12	11.6	W	WNW19*	7.9		
7	-17.4	-31.9	-24.7	42.7			70	62			3.6	2.8	12	15.0	S	ESE19*	0.0		
8	-17.0	-32.5	-24.8	42.8			72	53			1.8	1.2	18	16.1	WNW	WNW26	4.8		
9	-27.8	-37.3	-32.6	50.6			71	51			TR.	TR.	18	7.9	S	WNW15*	7.1		
10	-12.0	-31.3	-21.7	39.7			89	53			0.8	0.6	18	17.3	SE	SE 26*	0.0		
11	-11.9	-20.7	-16.3	34.3			89	65			TR.	TR.	19	12.0	S	S 26	6.9		
12	-8.5	-24.4	-16.5	34.5			86	66		0.4	0.2	0.6	18	11.2	S	SSE22	4.4		
13	-8.7	-11.9	-10.3	28.3			90	82			0.2	0.2	18	15.2	NNW	NNW24	0.0		
14	-10.3	-18.3	-14.3	32.3			87	68			TR.	TR.	17	10.4	WNW	NW 20	5.6		
15	-2.1	-10.3	-6.2	24.2			92	83		TR.	TR.	TR.	17	6.2	S	S 15	0.0		
16	-1.8	-11.5	-6.7	24.7			92	71					15	19.6	NW	NW 35	0.6		
17	-6.0	-15.6	-10.8	28.8			91	74			TR.	TR.	14	11.0	S	S 26*	3.0		
18	2.4	-9.5	-3.6	21.6			91	78		TR.	TR.	TR.	14	11.9	S	S 20*	3.5		
19	1.8	-21.0	-9.6	27.6			90	55			TR.	TR.	13	30.8	NW	NW 46	1.3		
20	-21.0	-29.0	-25.0	43.0			69	53					13	12.4	N	N 26	7.6		
21	-10.7	-25.4	-18.1	36.1			89	58			1.0	1.0	13	16.8	S	S 41	4.6		
22	-0.4	-17.4	-8.9	26.9			95	67			3.2	3.0	14	33.9	NNW	SSW48	0.0		
23	-17.2	-26.0	-21.6	39.6			70	53			TR.	TR.	16	18.6	NNW	NNW28	7.7		
24	-21.1	-30.9	-26.0	44.0			75	57			TR.	TR.	16	9.6	W	WNW15*	6.5		
25	-9.2	-26.1	-17.7	35.7			84	63			TR.	TR.	16	14.0	WSW	WSW20*	0.0		
26	-8.5	-25.2	-16.9	34.9			91	58			3.0	3.0	16	19.9	S	S 35	0.7		
27	-12.2	-28.5	-20.4	38.4			82	62			0.6	0.6	19	9.4	NW	NNW22	4.4		
28	-23.2	-31.1	-27.2	45.2			66	53			TR.	TR.	19	12.2	W	W 19	7.8		
29	-17.4	-29.2	-23.3	41.3			66	54			TR.	TR.	19	19.9	S	S 28	7.1		
30	-16.2	-26.3	-21.3	39.3			78	60			1.0	1.0	19	14.7	WNW	SSE26*	6.4		
31	-14.5	-26.9	-20.7	38.7			73	60			0.8	0.8	19	6.7	S	S 15	7.1		
MEAN MOYENNE	-13.2	-24.5	-18.9	TOTAL 1142.8	TOTAL 0.0	TOTAL 0.0	79	60	TOT 0	TOTAL 0.4	TOTAL 16.6	TOTAL 15.2		15.1	PREVAILING DIRECTION DOMINANTE S	MAXIMALE SSW48	TOTAL 139.3		
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 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 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	1142.8	918.0	1154.7	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	12	6	3	0	0	0	12	6	3	0	0	
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	3446.1	3423.2	3434.6	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1860.7	1972.9	1783.2												

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/Calme \$3.00 \$29.50 \$3.00 \$29.50 (janv. à déc.)

8. Price: single issue / Prix: numéro individuel



Date	WINNIPEG INTERNATIONAL AIRPORT AEROPORT INTERN. DE WINNIPEG										MONTH: MOIS:		1991		Page 3.									
	00	01	02	03	04	05	06	07	08	09	10	11	12	13		14	15	16	17	18	19	20	21	22
1	-262	-259	-247	-248	-247	-262	-265	-273	-274	-285	-269	-265	-252	-244	-242	-240	-247	-256	-264	-266	-267	-274	-275	-272
2	-278	-285	-271	-275	-275	-268	-267	-266	-265	-259	-246	-238	-228	-221	-215	-210	-209	-214	-216	-220	-219	-215	-212	-215
3	-224	-224	-231	-234	-233	-230	-230	-239	-243	-244	-237	-233	-223	-213	-200	-201	-199	-192	-191	-183	-189	-188	-191	-185
4	-184	-188	-187	-185	-188	-189	-191	-189	-193	-190	-179	-170	-161	-154	-149	-150	-155	-156	-159	-163	-160	-164	-172	-171
5	-165	-158	-156	-165	-166	-177	-178	-188	-198	-212	-218	-199	-195	-192	-193	-195	-204	-215	-228	-245	-243	-250	-268	-261
6	-258	-283	-269	-283	-292	-294	-306	-306	-306	-303	-300	-290	-283	-271	-261	-257	-264	-274	-285	-280	-286	-282	-299	-298
7	-300	-312	-310	-314	-309	-314	-313	-306	-298	-269	-251	-243	-229	-221	-212	-200	-192	-184	-179	-183	-184	-185	-184	-181
8	-180	-174	-170	-173	-183	-188	-188	-198	-203	-210	-209	-214	-214	-235	-241	-245	-254	-270	-279	-290	-300	-298	-309	-319
9	-324	-328	-325	-329	-355	-350	-349	-366	-361	-358	-355	-307	-302	-291	-285	-283	-299	-311	-317	-311	-315	-315	-310	-316
10	-312	-310	-308	-313	-304	-292	-277	-262	-245	-228	-211	-203	-188	-174	-164	-158	-148	-137	-134	-131	-128	-126	-123	-120
11	-121	-127	-134	-147	-159	-173	-186	-190	-194	-188	-180	-172	-168	-159	-156	-159	-185	-192	-179	-170	-174	-185	-189	-196
12	-196	-204	-206	-203	-215	-222	-225	-234	-236	-233	-217	-202	-188	-176	-163	-156	-152	-144	-139	-129	-108	-103	-93	-86
13	-94	-101	-103	-111	-119	-116	-111	-109	-108	-114	-108	-97	-89	-93	-92	-92	-95	-97	-96	-93	-94	-99	-98	-101
14	-104	-113	-128	-137	-148	-158	-159	-160	-175	-181	-175	-170	-163	-152	-142	-141	-140	-145	-146	-132	-130	-120	-113	-108
15	-103	-97	-98	-90	-87	-83	-79	-75	-71	-65	-54	-48	-37	-30	-27	-21	-29	-23	-29	-32	-32	-32	-34	-31
16	-34	-33	-27	-18	-20	-23	-32	-43	-51	-49	-43	-36	-38	-27	-27	-29	-32	-36	-47	-66	-91	-105	-92	-106
17	-105	-115	-134	-138	-148	-141	-148	-148	-138	-129	-115	-105	-93	-76	-71	-61	-60	-75	-84	-83	-71	-71	-76	-78
18	-84	-90	-87	-77	-74	-73	-64	-55	-47	-37	-31	-14	-1	4	9	11	15	12	11	22	21	15	10	9
19	3	12	15	16	0	-8	-26	-21	-25	-70	-101	-122	-140	-145	-149	-156	-162	-161	-159	-163	-170	-185	-200	-200
20	-210	-220	-228	-237	-247	-258	-263	-262	-277	-285	-278	-273	-263	-250	-240	-234	-231	-229	-232	-221	-217	-215	-222	-227
21	-238	-248	-245	-238	-232	-225	-220	-217	-210	-212	-205	-194	-177	-173	-177	-182	-180	-174	-167	-162	-153	-138	-122	-114
22	-107	-97	-87	-74	-61	-43	-35	-10	-40	-66	-84	-100	-106	-120	-130	-138	-145	-150	-149	-156	-161	-162	-168	-172
23	-172	-179	-174	-191	-193	-185	-187	-189	-196	-211	-222	-210	-207	-209	-210	-209	-207	-214	-222	-231	-251	-246	-249	-248
24	-252	-260	-265	-265	-280	-279	-285	-300	-301	-288	-263	-244	-231	-224	-211	-211	-216	-225	-238	-241	-254	-263	-247	-247
25	-247	-243	-249	-249	-251	-245	-253	-254	-258	-239	-211	-169	-144	-130	-115	-106	-99	-99	-93	-97	-103	-101	-102	-108
26	-111	-158	-181	-210	-208	-215	-233	-240	-240	-241	-227	-200	-196	-185	-177	-169	-150	-145	-142	-121	-93	-96	-108	-123
27	-123	-147	-153	-182	-195	-196	-206	-212	-220	-230	-221	-216	-213	-196	-196	-195	-196	-193	-196	-192	-202	-222	-224	-257
28	-283	-285	-290	-301	-299	-288	-303	-302	-299	-295	-281	-262	-255	-241	-235	-235	-234	-241	-248	-252	-252	-250	-252	-254
29	-255	-259	-262	-273	-275	-275	-289	-286	-280	-263	-252	-237	-226	-210	-202	-188	-190	-189	-197	-214	-212	-196	-192	-185
30	-175	-168	-165	-163	-163	-163	-169	-167	-188	-202	-190	-184	-180	-179	-178	-188	-198	-207	-220	-228	-248	-254	-253	-253
31	-260	-261	-238	-230	-233	-225	-215	-204	-203	-194	-181	-165	-155	-149	-176	-172	-173	-182	-177	-192	-194	-226	-228	-197

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	-318	-315	-299	-296	-296	-309	-310	-320	-320	-327	-321	-319	-316	-317	-320	-318	-322	-327	-330	-334	-336	-340	-342	-337
2	-338	-341	-334	-336	-336	-331	-329	-327	-326	-322	-309	-303	-295	-290	-282	-281	-277	-278	-282	-284	-282	-279	-277	-279
3	-284	-283	-288	-292	-292	-288	-290	-297	-300	-302	-298	-296	-287	-279	-267	-266	-263	-260	-257	-250	-249	-250	-250	-248
4	-248	-251	-253	-254	-256	-258	-258	-257	-258	-259	-253	-247	-239	-232	-229	-228	-230	-224	-221	-223	-226	-227	-229	-224
5	-218	-212	-208	-208	-208	-223	-226	-236	-249	-260	-268	-251	-253	-258	-263	-289	-298	-293	-297	-309	-305	-308	-317	-310
6	-318	-330	-324	-342	-351	-345	-355	-355	-356	-357	-352	-351	-352	-341	-340	-343	-338	-340	-343	-334	-338	-338	-350	-347
7	-351	-356	-357	-357	-356	-360	-358	-354	-345	-318	-295	-289	-276	-272	-262	-249	-238	-228	-219	-226	-226	-228	-226	-221
8	-220	-213	-210	-211	-222	-228	-229	-241	-246	-257	-253	-262	-266	-285	-294	-302	-311	-327	-349	-357	-357	-355	-363	-369
9	-373	-378	-379	-382	-400	-397	-395	-414	-406	-402	-398	-349	-350	-346	-350	-350	-359	-365	-367	-362	-369	-366	-361	-368
10	-366	-360	-360	-360	-353	-345	-333	-321	-301	-287	-278	-272	-247	-221	-210	-197	-183	-170	-165	-163	-147	-145	-141	-138
11	-138	-148	-157	-169	-179	-188	-233	-226	-231	-224	-209	-206	-206	-202	-201	-207	-228	-233	-221	-208	-214	-225	-228	-236
12	-236	-244	-247	-240	-254	-263	-269	-276	-281	-271	-254	-242	-229	-221	-209	-202	-195	-187	-178	-160	-130	-125	-113	-107
13	-113	-121	-121	-125	-134	-133	-127	-126	-125	-130	-124	-112	-105	-110	-109	-114	-119	-118	-116	-116	-113	-117	-122	-125
14	-127	-136	-150	-158	-169	-181	-185	-189	-213	-212	-208	-201	-196	-187	-181	-182	-186	-186	-181	-166	-163	-155	-142	-131
15	-123	-114	-109	-105	-102	-96	-92	-89	-84	-78	-70	-65	-58	-52	-49	-45	-47	-47	-49	-48	-49	-49	-50	-51
16	-52	-49	-42	-32	-32	-36	-42	-59	-64	-64	-62	-61	-67	-59	-63	-65	-65	-80	-90	-104	-120	-130	-119	-131
17	-126	-138	-150	-151	-163	-156	-166	-164	-154	-146	-130	-121	-119	-111	-103	-96	-99	-105	-108	-107	-96	-95	-99	-97
18	-106	-105	-104	-94	-93	-89	-81	-75	-67	-54	-49	-36	-32	-28	-21	-18	-12	-13	-10	-6	-5	-12	-18	-18
19	-20	-5	1	1	-24	-43	-60	-63	-58	-122	-153	-169	-188	-194	-213	-226	-225	-217	-218	-217	-214	-219	-233	-250
20	-260	-270	-278	-287	-293	-306	-313	-311	-330	-337	-326	-323	-315	-306	-300	-297	-294	-294	-291	-279	-276	-273	-282	-283
21	-285	-292	-291	-285	-281	-275	-269	-264	-255	-258	-251	-241	-233	-233	-235	-233	-225	-215	-207	-200	-190	-170	-138	-129
22	-122	-112	-100	-86	-78	-64	-53	-16	-54	-81	-99	-120	-129	-145	-153	-161	-166	-175	-178	-183	-192	-196	-211	-216
23	-215	-226	-219	-237	-240	-229	-231	-241	-250	-262	-272	-254	-255	-259	-264	-267	-269	-276	-285	-294	-316	-301	-300	-298
24	-303	-305	-312	-312	-323	-319	-331	-345	-340	-331	-305	-286	-275	-272	-270	-273	-276	-282	-286	-284	-299	-296	-306	-297
25	-288	-291	-297	-298	-298	-294	-300	-299	-305	-284	-253	-210	-190	-172	-157	-140	-136	-129	-133	-128	-126	-129	-130	-133
26	-134	-189	-238	-269	-258	-262	-276	-279	-281	-283	-268	-237	-250	-237	-230	-204	-180	-174	-170	-136	-106	-118	-134	-149
27	-154	-174	-179	-206	-226	-246	-249	-254	-263	-275	-264	-261	-259	-249	-248	-244	-238	-237	-238	-232	-240	-264	-264	-298
28	-333	-327	-336	-345	-350	-334	-350	-345	-346	-344	-329	-310	-308	-298	-295	-291	-294	-295	-297	-303	-303	-306	-314	-316
29	-317	-318	-322	-326	-333	-334	-340	-336	-331	-314	-305	-296	-288	-272	-263	-245	-247	-247	-254	-263	-264	-249	-245	-235
30	-230	-226	-221	-212	-208	-201	-206	-203	-218	-236	-227	-223	-224	-226	-230	-242	-250	-262	-276	-283	-299	-297	-299	-296
31	-291	-305	-282	-275	-276	-269	-257	-246	-246	-236	-225	-217	-208	-214	-222	-223	-225	-233	-220	-238	-232	-280	-269	-239

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

The beginning and end of the month were cold, but a mild spell at mid month was enough to pull the mean temperature to just above the normal, and produced the only temperature record for the month. The mercury peaked at 2.4 on the 18th which broke the old record of 1.4 set in 1976.

The mean temperature for January was 0.4 C warmer than normal. The mean daily maximum was 1.1 degrees warmer than normal but the mean daily minimum was 0.3 degree colder than normal.

Total precipitation was about 75% of normal. Freezing rain on the 12th produced 0.4 mm of rainfall, twice the normal of 0.2 mm.

Winds were occasionally strong and gusty causing the closure of the Trans-Canada highway just west of Winnipeg on a few days. Winds gusted to over 50 km/h on 4 days.

DAILY WEATHER SUMMARY FOR JANUARY 1991AT WINNIPEG, MANITOBA

1. Sunny. Maximum well below normal, minimum below normal. Winds light occasionally moderate.
2. Sunny. Maximum temperature well below normal, minimum below normal. Winds light to moderate through the day.
3. Sunny with a few clouds mid to late afternoon. Maximum below normal, minimum near normal. Winds light increasing to moderate by early afternoon.
4. Sunny, becoming cloudy late in the afternoon. Maximum near normal, minimum slightly above normal. Winds light.
5. Sunny with a few cloudy periods in the morning. Maximum temperature near normal, minimum below normal. Winds light.
6. Sunny. Temperatures well below normal. Winds light.
7. Overcast with light snow. Maximum slightly below normal, minimum well below normal. Winds light.
8. Cloudy with light snow clearing by midmorning. Maximum temperature slightly below normal, minimum well below normal. Winds light, increasing to moderate by early afternoon.
9. Sunny with ice crystals. Temperatures well below normal. Winds light.
10. Overcast with light snow. Maximum temperature slightly above normal, minimum below normal. Winds light, becoming moderate near noon, decreasing to light by early evening.
11. Sunny with ice crystals. Temperatures slightly above normal. Light winds.
12. Sunny becoming overcast with light snow, ice pellets, and freezing rain. Maximum above normal, minimum near normal. Light winds.
13. Overcast with light snow. Maximum above normal, minimum well above normal. Winds light increasing to moderate in the early afternoon, decreasing to light by early evening.
14. Sunny, becoming overcast in the evening. Temperatures above normal. Winds light.
15. Overcast with morning snow and freezing drizzle early afternoon. Temperatures well above normal. Winds light.
16. Cloudy to overcast clearing in the evening. Temperatures well above normal. Winds light increasing to moderate occasionally gusting strong by midmorning, decreasing to light by early evening.
17. Cloudy becoming clear by mid afternoon. Temperatures well above normal. Winds light occasionally moderate in the afternoon.
18. Overcast with freezing rain in the morning, cloudy in the afternoon with rain in the early evening. Temperatures well above normal. Winds light.
19. Cloudy to overcast with light snow. Maximum temperature well above normal, minimum slightly above normal. Winds moderate occasionally gusting strong decreasing to light overnight.
20. Sunny, becoming cloudy in the evening. Temperatures below normal. Winds light.
21. Cloudy with snow clearing by noon, becoming overcast with snow by mid evening. Maximum temperature slightly above normal, minimum near normal. Winds light increasing to moderate occasionally gusting strong by early evening.
22. Overcast with snow and blowing snow. Temperatures well above normal. Winds moderate occasionally gusting strong.
23. Cloudy with light snow, clearing by mid morning. Temperatures slightly below normal. Winds moderate decreasing to light in the afternoon.
24. Sunny. Temperatures well below normal. Winds light.
25. Clear, becoming cloudy by mid morning with snow beginning early afternoon ending overnight. Maximum temperature above normal minimum near normal. Winds light.
26. Clear, becoming cloudy by midmorning with snow and blowing snow starting early afternoon. Maximum temperature above normal, minimum near normal. Winds light, increasing to moderate occasionally gusting strong by late afternoon.
27. Sunny becoming cloudy with light snow in the afternoon. Maximum temperature near normal, minimum slightly below normal. Winds light.
28. Sunny with ice crystals. Temperatures well below normal. Winds light.
29. Mostly sunny. Maximum temperature slightly below normal, minimum temperature below normal. Light winds increasing to moderate with occasional gust late afternoon.
30. Mostly cloudy with snow, clearing early afternoon. Temperatures slightly below normal. Moderate winds decreasing to light early morning.
31. Mostly cloudy with early morning periods of snow, some sunny breaks afternoon. Temperatures slightly below normal. Light winds.