



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JANUARY / JANVIER

19 90

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

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) METRES (NMM)		STANDARD TIME USED: CENTRAL		HEURE NORMALE UTILISEE:							
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 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	km/h		km/h			
1	0.2	-22.0	-10.9	28.9			89	72				10	21.9	S	S 41	4.3	
2	-3.6	-14.3	-9.0	27.0			97	77				10	14.8	NE	NE 24*	0.0	
3	-10.3	-16.3	-13.3	31.3			93	70			4.0	13	14.0	WNW	NNE26*	6.2	
4	-12.8	-26.4	-19.6	37.6			75	61			TR.	13	8.3	NW	N 22	3.9	
5	-17.5	-21.0	-19.3	37.3			79	67			TR.	13	6.3	N	S 13	6.9	
6	2.3	-21.7	-9.7	27.7			100	72				12	22.2	S	S 37*	2.2	
7	1.6	-9.4	-3.9	21.9			96	77			TR.	11	15.9	W	W 22*	0.1	
8	1.1	-9.1	-4.0	22.0			97	86			TR.	11	17.6	NW	NW 26	0.0	
9	-7.0	-13.4	-10.2	28.2			99	81			TR.	11	12.5	S	NNW19*	6.2	
10	5.1	-7.0	-1.0	19.0			99	81	1		0.4	10	33.6	S	NW 69	0.0	
11	-5.8	-12.2	-9.0	27.0			97	76				7	38.3	NW	NNW48	0.0	
12	-12.1	-20.9	-16.5	34.5			85	52				08	16.2	NW	NNW31	8.0	
13	-4.8	-16.8	-10.8	28.8			78	54				08	21.2	S	SSE31	2.2	
14	-7.0	-14.7	-10.9	28.9			95	78				08	11.5	WNW	NW 19*	3.6	
15	-5.7	-13.4	-9.6	27.6			94	79			0.6	08	5.2	SSW	SW 09*	3.5	
16	-3.9	-6.0	-5.0	23.0			98	90			0.2	9	7.8	S	S 11*	0.0	
17	-5.7	-13.1	-9.4	27.4			99	73			0.2	9	15.6	N	NNW22*	5.3	
18	-7.8	-14.8	-11.3	29.3			92	64			0.2	9	11.8	SSE	WNW22	0.5	
19	-6.8	-19.6	-13.2	31.2			93	77				8	13.0	WNW	S 22	6.3	
20	-10.2	-17.7	-14.0	32.0			90	77			TR.	8	11.0	S	S 26	3.6	
21	0.3	-11.9	-5.8	23.8			96	74			1.4	8	18.2	W	S 28	6.6	
22	-3.8	-9.5	-6.7	24.7			87	76				9	15.3	W	W 24*	1.3	
23	-2.1	-9.2	-5.7	23.7			99	84			TR.	9	20.0	ESE	NW 31	0.0	
24	-7.8	-14.5	-11.2	29.2			92	81			1.2	12	20.6	NW	NW 28*	1.4	
25	-8.7	-15.2	-12.0	30.0			95	82			TR.	13	7.4	SSE	SSE19	3.7	
26	3.1	-10.1	-3.5	21.5			99	75			0.6	13	22.6	S	S 44	1.5	
27	-5.2	-20.4	-12.8	30.8			90	55			0.6	14	19.9	NW	NW 39	8.2	
28	-15.2	-26.3	-20.8	38.8			73	47			TR.	14	12.5	ENE	NNE20*	2.0	
29	-4.6	-25.9	-15.3	33.3			93	63			1.8	14	18.9	NNW	NNW44	0.0	
30	-25.1	-32.4	-28.8	46.8			70	53			TR.	15	17.4	NNW	NNW44	8.3	
31	-24.0	-29.5	-26.8	44.8			69	57			2.2	17	12.1	N	NE 19*	7.4	
MEAN MOYENNE	-6.6	-16.6	-11.6	918.0	0.0	0.0	91	71	1	TOT	TOTAL	TOTAL	TOTAL	16.2	PREVAILING DOMINANTE	MAXIMALE	TOTAL
NORMAL NORMALE	-14.3	-24.2	-19.3	1154.7	0.0	0.0			0		0.2	23.7	21.3		S		121.2

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

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	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE
TOTAL FOR MONTH TOTAL DU MOIS	918.0	1047.6	1154.7	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS	OU PLUS
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	3423.2	3307.8	3434.6	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1972.9	2142.7	1783.2	16	8	4	0	0	14	8	4	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 \$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

Date	MONTH: JANUARY 1990																														
	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	-212	-215	-194	-196	-192	-184	-178	-164	-152	-144	-136	-124	-101	-83	-64	-44	-29	-14	-13	-23	-20	-7	-22	-25							
2	-37	-47	-45	-68	-85	-129	-136	-85	-68	-57	-58	-58	-57	-56	-64	-68	-79	-87	-95	-96	-96	-96	-98	-106							
3	-108	-112	-111	-118	-118	-123	-128	-130	-127	-131	-134	-130	-131	-130	-133	-141	-153	-160	-146	-142	-129	-109	-112	-104							
4	-128	-191	-214	-205	-232	-244	-249	-263	-247	-229	-228	-218	-222	-207	-208	-199	-201	-194	-190	-192	-190	-185	-184								
5	-183	-180	-180	-176	-179	-176	-183	-183	-186	-186	-197	-198	-194	-180	-177	-176	-179	-203	-207	-202	-193	-181	-191	-197							
6	-206	-211	-195	-183	-170	-159	-152	-144	-139	-137	-129	-115	-94	-61	-25	0	1	-4	16	18	18	20	12	1							
7	9	15	4	-6	-9	-26	-27	-60	-69	-88	-86	-88	-68	-67	-61	-50	-45	-33	-25	-16	-10	-10	-4								
8	-3	-9	-1	4	1	-6	9	-14	-24	-27	-40	-45	-46	-53	-58	-65	-71	-76	-77	-79	-81	-91	-89								
9	-89	-93	-95	-96	-101	-108	-127	-126	-130	-129	-129	-121	-111	-108	-108	-104	-112	-122	-127	-120	-117	-110	-90	-78							
10	-70	-64	-62	-53	-39	-27	-21	-14	-17	-15	-7	1	18	27	45	36	25	13	-4	-17	-42	-39	-50								
11	-58	-58	-64	-70	-75	-78	-81	-85	-89	-90	-90	-90	-88	-73	-85	-89	-90	-94	-99	-103	-108	-110	-114	-118							
12	-121	-126	-128	-134	-155	-167	-178	-188	-195	-208	-197	-181	-172	-158	-151	-146	-141	-148	-163	-167	-171	-167	-170	-168							
13	-167	-162	-152	-135	-125	-127	-120	-110	-104	-94	-84	-77	-69	-62	-55	-49	-54	-54	-59	-65	-69	-72	-71								
14	-78	-76	-75	-81	-85	-97	-105	-118	-124	-140	-139	-128	-114	-107	-108	-103	-106	-110	-119	-129	-145	-145	-138	-142							
15	-134	-132	-129	-119	-114	-108	-110	-111	-119	-114	-106	-101	-92	-81	-78	-83	-88	-84	-83	-79	-76	-62	-59	-62							
16	-60	-54	-47	-41	-42	-45	-43	-46	-46	-70	-43	-41	-41	-40	-43	-43	-43	-42	-44	-46	-47	-49	-51	-53							
17	-57	-60	-61	-61	-68	-74	-72	-74	-71	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76	-76							
18	-119	-122	-122	-127	-123	-117	-121	-129	-134	-137	-138	-136	-137	-130	-126	-121	-127	-141	-146	-139	-129	-117	-109	-98							
19	-79	-74	-74	-79	-94	-100	-110	-120	-118	-136	-134	-129	-116	-112	-112	-114	-120	-133	-145	-148	-165	-174	-188	-166							
20	-159	-175	-153	-158	-157	-158	-154	-148	-154	-148	-148	-145	-138	-130	-115	-111	-118	-129	-140	-137	-127	-128	-124	-119							
21	-117	-117	-111	-106	-105	-100	-94	-84	-75	-52	-44	-26	-26	-18	-5	1	-14	-26	-29	-46	-41	-55	-41	-61							
22	-56	-44	-50	-51	-59	-61	-71	-72	-59	-60	-63	-57	-53	-49	-47	-59	-61	-74	-74	-82	-82	-84	-90	-91							
23	-88	-91	-86	-80	-77	-70	-71	-63	-59	-54	-47	-41	-33	-26	-23	-22	-22	-24	-26	-57	-67	-76	-78	-79							
24	-78	-88	-101	-105	-103	-126	-128	-113	-107	-108	-105	-100	-94	-91	-84	-93	-101	-115	-132	-126	-137	-129	-116	-108							
25	-110	-101	-97	-94	-95	-97	-97	-99	-108	-117	-102	-92	-97	-94	-105	-88	-120	-101	-120	-143	-148	-134	-126	-109							
26	-101	-93	-83	-67	-50	-46	-46	-48	-43	-40	-31	-22	-10	8	17	25	25	1	-8	-5	-4	-6	-21	-29							
27	-52	-80	-89	-108	-125	-143	-151	-167	-179	-179	-178	-173	-171	-168	-169	-169	-170	-187	-194	-203	-199	-188	-185	-188							
28	-188	-181	-184	-192	-198	-202	-203	-196	-195	-191	-188	-182	-174	-167	-154	-162	-181	-189	-201	-210	-218	-237	-256	-245							
29	-237	-252	-252	-231	-211	-201	-194	-188	-181	-165	-152	-127	-110	-70	-53	-48	-106	-139	-151	-166	-115	-200	-216	-239							
30	-252	-253	-258	-262	-275	-286	-297	-310	-321	-323	-316	-310	-303	-299	-290	-286	-283	-288	-293	-292	-295	-280	-275	-264							
31	-262	-260	-262	-262	-264	-264	-264	-258	-263	-282	-285	-265	-262	-255	-248	-242	-241	-249	-261	-266	-264	-266	-265	-268							

Note/Avia: 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

HOURLY DEW POINT TEMPERATURE AT:
 TEMPERATURE DE ROSEE HORAIRE A:
 WINNIPEG INTERNATIONAL AIRPORT
 AEROPORT INTERN. DE WINNIPEG

MONTH: JANUARY
 MOIS: JANVIER 1990

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	-241	-252	-228	-232	-228	-219	-213	-196	-181	-170	-151	-141	-123	-109	-93	-73	-59	-42	-41	-47	-42	-31	-42	-47
2	-54	-59	-60	-61	-76	-89	-136	-145	-89	-76	-78	-84	-83	-83	-82	-95	-105	-111	-120	-124	-121	-123	-125	-127
3	-130	-125	-123	-128	-129	-136	-145	-147	-141	-148	-150	-153	-161	-166	-172	-184	-197	-198	-178	-171	-156	-124	-122	-116
4	-143	-233	-248	-241	-268	-280	-287	-300	-283	-266	-261	-251	-254	-248	-249	-252	-247	-238	-230	-226	-227	-224	-220	-219
5	-218	-217	-214	-209	-214	-211	-218	-218	-224	-225	-233	-232	-228	-223	-224	-222	-224	-235	-235	-229	-216	-223	-233	-233
6	-243	-246	-230	-217	-202	-189	-178	-164	-139	-148	-139	-124	-107	-79	-51	-34	-27	-30	-19	-15	-17	-19	-22	-27
7	-21	-18	-25	-32	-36	-45	-45	-71	-78	-105	-110	-109	-88	-103	-94	-85	-77	-69	-56	-35	-23	-20	-16	-9
8	-8	-14	-13	-15	-18	-23	-10	-26	-30	-36	-48	-52	-53	-59	-66	-75	-85	-88	-90	-91	-95	-103	-100	-99
9	-92	-98	-105	-105	-111	-121	-143	-140	-140	-136	-137	-131	-125	-127	-128	-130	-135	-141	-145	-138	-127	-115	-94	-80
10	-73	-67	-65	-57	-41	-27	-23	-21	-20	-21	-19	-14	-8	-1	20	24	21	0	-19	-39	-57	-63	-55	-59
11	-68	-66	-76	-78	-85	-91	-94	-103	-108	-112	-115	-109	-109	-97	-97	-106	-117	-118	-122	-128	-134	-137	-142	-145
12	-153	-153	-153	-162	-200	-219	-230	-239	-247	-254	-248	-237	-230	-219	-221	-216	-218	-216	-214	-211	-215	-218	-218	-213
13	-212	-207	-197	-187	-179	-176	-170	-163	-160	-147	-151	-149	-143	-137	-124	-110	-102	-101	-97	-103	-107	-107	-111	-111
14	-110	-107	-105	-107	-109	-116	-119	-125	-131	-150	-151	-144	-132	-125	-126	-124	-127	-131	-139	-145	-161	-169	-166	-167
15	-162	-159	-157	-149	-144	-136	-122	-120	-130	-124	-119	-115	-110	-104	-100	-108	-105	-99	-97	-92	-86	-74	-72	-72
16	-68	-63	-58	-56	-55	-55	-55	-56	-56	-53	-53	-52	-50	-51	-51	-51	-50	-48	-49	-49	-50	-52	-56	-58
17	-62	-62	-63	-65	-72	-79	-77	-79	-74	-79	-87	-109	-130	-145	-141	-141	-149	-147	-152	-151	-153	-146	-141	-136
18	-140	-141	-142	-145	-137	-131	-142	-163	-175	-191	-184	-178	-183	-181	-175	-170	-165	-180	-193	-176	-164	-145	-130	-115
19	-93	-86	-90	-98	-110	-119	-125	-135	-128	-147	-149	-146	-131	-129	-131	-135	-142	-153	-161	-171	-194	-203	-218	-194
20	-186	-204	-178	-186	-184	-190	-185	-175	-178	-175	-172	-172	-165	-160	-143	-137	-143	-149	-156	-154	-143	-140	-136	-130
21	-128	-129	-122	-119	-116	-109	-102	-91	-81	-56	-52	-44	-45	-48	-36	-39	-47	-56	-60	-71	-68	-76	-66	-78
22	-76	-69	-79	-87	-91	-91	-95	-92	-82	-82	-82	-79	-78	-79	-76	-94	-96	-101	-100	-103	-103	-105	-111	-113
23	-110	-113	-106	-100	-95	-88	-83	-73	-69	-62	-53	-48	-39	-31	-25	-24	-26	-27	-28	-65	-77	-87	-90	-90
24	-92	-101	-113	-118	-116	-139	-141	-126	-119	-122	-117	-112	-108	-110	-108	-117	-128	-141	-151	-145	-149	-143	-132	-124
25	-125	-118	-113	-111	-110	-111	-110	-111	-120	-122	-114	-109	-111	-109	-122	-109	-133	-125	-135	-150	-156	-146	-134	-117
26	-109	-102	-95	-83	-56	-51	-52	-56	-57	-57	-51	-44	-35	-24	-16	-11	-16	-16	-23	-19	-28	-17	-26	-36
27	-39	-100	-118	-130	-138	-162	-167	-189	-221	-218	-222	-233	-231	-234	-235	-234	-238	-244	-253	-255	-257	-247	-248	-248
28	-238	-250	-244	-258	-259	-260	-265	-257	-252	-245	-247	-244	-243	-243	-240	-230	-240	-240	-250	-257	-270	-282	-298	-285
29	-272	-294	-296	-267	-246	-231	-223	-217	-209	-191	-175	-136	-119	-87	-71	-60	-114	-155	-165	-180	-209	-237	-254	-280
30	-295	-296	-300	-305	-321	-339	-350	-360	-374	-375	-371	-369	-361	-355	-354	-351	-348	-350	-352	-348	-346	-332	-330	-318
31	-306	-303	-304	-305	-308	-307	-308	-301	-306	-323	-329	-311	-311	-306	-303	-299	-299	-301	-313	-316	-312	-316	-313	-317

- Note/Aviis: 1. Climatological Day/journee 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

January was heading for a record breaking warm month, until a cold snap during the last four days dropped the mean temperature of -11.6 to the third warmest on record, exceeded only by 1944 and 1942. New record high maximum temperatures were set on the 10th at 5.1 and the 26th at 3.1 degrees.

Precipitation was a little above normal, the first time in five months. There was 24.4 mm compared to the usual 21.3 mm. Rainfall of 0.8 mm was recorded, compared to the usual 0.2 for January. Measurable precipitation fell on 16 days as compared to the normal of 12.

Warm temperatures resulted in more than usual cloudiness. This reduced total sunshine hours to 103.2, much less than the normal of 121.2 hours. Winds were a little lighter than usual, averaging 16.3 km/hr. There was thunder reported on the 10th; a rare occurrence in January.

DAILY WEATHER SUMMARY FOR JANUARY 1990AT WINNIPEG, MANITOBA

1. Partly cloudy in the morning becoming mainly sunny. Maximum temperature well above normal. Winds moderate with gusts decreasing to light late afternoon.
2. Becoming cloudy early morning. Temperatures well above normal. Winds light.
3. Cloud and snow with afternoon sunny periods. Temperatures slightly above normal. Winds light.
4. Partly cloudy. Temperatures near normal. Winds light.
5. Cloudy with flurries becoming sunny mid-morning returning to cloudy early evening. Temperatures near normal. Winds light.
6. Mostly cloudy with blowing snow during the morning. Maximum temperature well above normal. Moderate winds with strong gusts decreasing to light early afternoon.
7. Mostly cloudy with snow beginning early evening. Temperatures well above normal. Winds light.
8. Cloudy with freezing drizzle early afternoon turning to snow. Temperatures well above normal. Winds light.
9. Cloudy with flurries becoming sunny then foggy in the evening. Temperatures well above normal. Winds light.
10. Cloudy with thundershowers, freezing rain and snow. Temperature near 20 degrees above normal. Moderate winds increasing to strong with gale force gusts.
11. Cloudy with snow and blowing snow. Temperatures above normal. Winds strong and gusty.
12. Clearing early in the day. Temperatures near normal. Winds moderate decreasing to light by mid-morning.
13. Mostly cloudy. Temperatures well above normal. Winds moderate.
14. Sunny with afternoon cloudy periods. Temperatures well above normal. Winds light.
15. Mostly cloudy with flurries early morning. Temperatures well above normal. Winds light.
16. Cloudy with afternoon snow and freezing drizzle in the evening. Temperatures well above normal. Winds light.
17. Cloudy with freezing drizzle and snow becoming mainly sunny near noon. Temperatures well above normal. Winds light.
18. Cloudy with flurries ending early afternoon. Temperatures dropping during the day then rising in the evening to above normal. Winds light.
19. Sunny. Temperatures well above normal. Winds light.
20. Mostly cloudy with snow in the morning. Temperatures above normal. Winds light increasing to moderate late evening.
21. Cloudy with flurries becoming mainly sunny near noon. Temperatures well above normal. Moderate gusty winds decreasing to light early morning.
22. Mostly cloudy. Temperatures well above normal. Winds light.
23. Cloudy with snow and freezing drizzle early afternoon. Temperatures well above normal. Winds light increasing to moderate early evening.
24. Cloudy with a few sunny periods. Snow. Temperatures above normal. Moderate winds decreasing to light early evening.
25. Cloudy with a few flurries and afternoon sunny breaks. Temperatures above normal. Winds light increasing to moderate near midnight.
26. Cloudy with periods of snow and blowing snow. Temperatures well above normal. Winds moderate with strong gusts, decreasing to light late morning, then increasing to moderate with gusts near midnight.
27. Cloudy with flurries and blowing snow becoming sunny by mid-morning. Temperatures dropping during the day to near noon. Moderate gusty winds decreasing to light early evening.
28. Cloudy with sunny breaks late afternoon. Temperatures normal. Winds light.
29. Becoming cloudy early morning. Snow and blowing snow beginning mid-afternoon. Maximum temperature well above normal. Light winds increasing to moderate with strong gust late afternoon.
30. Mostly sunny with blowing snow ending early morning. Temperatures well below normal. Moderate to strong winds decreasing to light mid-morning.
31. Partly cloudy with early morning snow. Temperatures well below normal. Winds light.