

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS NOVEMBER / NOVEMBRE 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) METRES (NMM)		STANDARD TIME USED: CENTRAL		HEURE NORMALE UTILISÉE: CENTRAL							
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			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	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	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	-2.5	-15.0	-8.8	26.8			96	65		TR.	TR.	1	16.1	NNW	NW 24	1.9			
2	-7.1	-19.9	-13.5	31.5			98	57		TR.	TR.	TR	7.8	NW	SSE19	7.1			
3	-2.4	-10.6	-6.5	24.5			98	68			3.4	3.4	26.4	S	SSE31*	0.0			
4	1.2	-2.4	-0.6	18.6			100	96	0.4		3.0	3.4	13.9	S	S 20*	0.0			
5	-0.1	-8.0	-4.1	22.1			98	77					14.4	NW	NW 24	4.4			
6	5.0	-4.5	0.3	17.7			100	85		TR.	TR.	4	15.7	S	S 26	2.6			
7	7.3	-3.4	2.0	16.0			100	79	1.6		1.6	1.6	13.3	S	S 22*	0.5			
8	4.4	-2.3	1.1	16.9			100	82	TR.		0.4	0.4	21.0	NNW	NNW35	0.0			
9	-0.4	-4.3	-2.4	20.4			99	77			0.4	0.4	10.4	N	N 22	0.2			
10	4.4	-3.8	0.3	17.7			95	67					17.0	S	S 37	0.1			
11	2.9	-7.2	-2.2	20.2			82	61			TR.	TR.		NW	NW 43	4.2			
12	-0.8	-7.6	-4.2	22.2			100	78			2.0	1.2	13.3	S	ESE22*	0.0			
13	-1.9	-9.8	-5.9	23.9			100	83					2	10.4	N	N 20	0.7		
14	-2.6	-10.9	-6.8	24.8			100	78			1.8	1.8	1	9.8	S	S 19*	0.2		
15	-4.0	-20.3	-12.2	30.2			93	64			0.2	0.2	3	21.5	NNW	NNW35	5.3		
16	-14.2	-21.7	-18.0	36.0			83	65			1.2	1.2	3	10.6	NW	SSE19	4.8		
17	-12.7	-21.7	-17.2	35.2			80	67			1.2	1.2	5	16.1	NW	NW 26	6.4		
18	-2.8	-23.5	-13.2	31.2			93	68			1.0	0.8	5	15.9	S	S 26*	0.8		
19	8.0	-3.8	2.1	15.9			95	77	TR.		TR.	TR.	5	19.9	S	S 24*	2.9		
20	1.7	-10.4	-4.4	22.4			94	60			TR.	TR.	TR	22.9	NNW	NNW41*	6.5		
21	-6.0	-17.0	-11.5	29.5			93	77			0.6	0.6	TR	12.5	SSE	NNE22	0.0		
22	-3.5	-18.8	-11.2	29.2			98	66			0.6	0.6	1	18.3	SSW	NNW37	1.2		
23	-13.9	-22.4	-18.2	36.2			75	62					2	13.1	S	S 24	6.2		
24	-3.0	-17.7	-10.4	28.4			92	64	TR.		0.2	0.2	1	25.4	S	S 35*	6.4		
25	-5.5	-16.9	-11.2	29.2			86	65			TR.	TR.	1	13.8	NW	NW 24	7.7		
26	-9.2	-14.5	-11.9	29.9			99	66	TR.		0.4	0.4	1	10.5	E	N 22	0.0		
27	-14.5	-22.9	-18.7	36.7			86	58					1	16.0	N	N 22*	7.8		
28	-11.5	-24.5	-18.0	36.0			83	60					1	15.0	S	S 33*	6.2		
29	3.9	-11.5	-3.8	21.8			89	48					1	22.5	WNW	NW 46	8.1		
30	3.5	-9.8	-3.2	21.2			96	66					1	8.8	NW	NW 15*	5.9		
MEAN MOYENNE	-2.5	-12.9	-7.7	TOTAL 772.3	TOTAL 0.0	TOTAL	93	70	TOT 0	TOTAL 2.0	TOTAL 16.4	TOTAL 17.4		15.9	PREVAILING DIRECTION DOMINANTE S	MAXIMALE NW 46	TOTAL 98.1		
NORMAL NORMALE	-0.3	-8.8	-4.5	676.0	3.8					5.5	21.9	25.2		19.4	S		90.7		
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	50 OR MORE - OU PLUS	100 OR MORE - OU PLUS	50 OR MORE - OU PLUS	10 OR MORE - OU PLUS	20 OR MORE - OU PLUS	100 OR MORE - OU PLUS	50 OR MORE - OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	772.3	671.9	676.0	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	3.8	15	7	2	0	0	14	7	3	1	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	1333.0	1304.9	1288.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1972.9	2142.7	1783.3												

UDC 551.506.1 ( )

Note/Aviz

1. Climatological Day/Jour de climatologie 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

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

WINNIPEG INTERNATIONAL AIRPORT  
AÉROPORT INTERN. DE WINNIPEG

DRY-BULB TEMPERATURES AT:  
TEMPÉRATURES DU THERMOMÈTRE SEC A:

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	-34	-40	-49	-55	-66	-62	-46	-48	-48	-45	-33	-26	-33	-34	-40	-51	-51	-70	-72	-77	-109	-124	-128	-138
2	-148	-155	-156	-166	-173	-183	-192	-195	-188	-158	-119	-106	-96	-82	-82	-76	-88	-98	-106	-112	-117	-109	-109	-104
3	-105	-104	-101	-100	-98	-95	-94	-95	-94	-88	-77	-65	-54	-46	-41	-36	-33	-32	-29	-29	-27	-25	-25	-25
4	-24	-22	-20	-18	-19	-19	-20	-17	-11	-6	-3	-1	2	12	4	2	2	1	0	0	0	0	-1	-2
5	-3	-4	-7	-7	-5	-4	-10	-14	-16	-20	-24	-30	-30	-25	-28	-21	-25	-44	-51	-66	-67	-57	-58	-47
6	-42	-43	-36	-31	-26	-23	-21	-22	-17	-7	5	14	18	18	28	36	49	35	30	25	19	19	12	7
7	6	4	-1	-6	-10	-11	-13	-25	-32	-12	6	13	28	34	55	66	67	64	55	61	60	54	51	49
8	44	30	23	3	3	4	3	-3	-6	-7	-6	-7	-7	-5	-6	-5	-7	-11	-12	-14	-15	-15	-14	-18
9	-23	-30	-34	-32	-32	-28	-28	-30	-35	-26	-22	-17	-12	-12	-11	-10	-12	-14	-14	-18	-20	-21	-21	-23
10	-23	-22	-23	-25	-26	-29	-29	-31	-36	-29	-25	-22	-16	-13	-8	-5	1	15	18	22	39	36	44	36
11	29	-4	-18	-33	-39	-41	-47	-49	-50	-42	-36	-29	-36	-33	-28	-26	-32	-45	-61	-60	-62	-68	-67	-69
12	-65	-66	-75	-72	-64	-60	-58	-64	-48	-34	-29	-9	-12	-12	-12	-11	-12	-14	-15	-16	-18	-17	-20	-19
13	-19	-33	-34	-39	-59	-53	-28	-29	-39	-36	-36	-36	-32	-36	-33	-36	-36	-45	-51	-67	-71	-78	-83	-83
14	-91	-95	-81	-65	-58	-59	-66	-74	-64	-59	-53	-47	-41	-36	-33	-30	-26	-31	-31	-34	-32	-29	-29	-34
15	-40	-55	-72	-89	-103	-133	-149	-157	-156	-156	-156	-142	-142	-135	-135	-136	-145	-160	-168	-176	-199	-199	-195	-202
16	-194	-192	-206	-209	-210	-208	-209	-210	-207	-192	-175	-170	-160	-156	-153	-159	-156	-159	-156	-154	-152	-148	-147	-144
17	-142	-141	-142	-147	-152	-152	-159	-170	-186	-183	-171	-157	-146	-134	-136	-141	-148	-169	-175	-179	-188	-195	-195	-210
18	-214	-212	-211	-211	-215	-229	-224	-228	-213	-195	-176	-157	-137	-118	-108	-103	-99	-91	-78	-59	-40	-31	-28	-31
19	-34	-35	-33	-33	-25	-13	5	17	24	32	44	48	49	64	66	80	69	58	53	46	35	46	35	18
20	9	3	14	11	1	-2	-7	-17	-31	-31	-31	-33	-36	-23	-34	-30	-38	-66	-74	-87	-86	-98	-96	-87
21	-85	-86	-84	-83	-83	-81	-81	-79	-79	-80	-76	-70	-68	-67	-64	-66	-73	-76	-80	-89	-95	-116	-139	-148
22	-170	-183	-188	-186	-175	-172	-176	-135	-137	-134	-123	-112	-90	-64	-61	-52	-55	-51	-38	-59	-87	-109	-139	-155
23	-168	-166	-172	-194	-204	-221	-210	-213	-217	-197	-180	-167	-153	-154	-154	-155	-142	-152	-165	-164	-171	-172	-174	-175
24	-176	-173	-167	-170	-155	-145	-137	-127	-123	-116	-103	-93	-81	-68	-59	-51	-51	-61	-69	-65	-61	-34	-51	-59
25	-56	-97	-92	-84	-91	-97	-105	-112	-124	-130	-118	-108	-105	-100	-100	-106	-119	-144	-150	-163	-164	-162	-144	-128
26	-129	-127	-124	-123	-122	-125	-121	-115	-115	-112	-108	-103	-94	-97	-97	-93	-103	-103	-103	-99	-100	-107	-122	-143
27	-145	-152	-159	-170	-180	-185	-193	-202	-216	-211	-194	-182	-176	-170	-168	-170	-174	-190	-204	-204	-212	-219	-223	-228
28	-226	-232	-238	-235	-237	-233	-234	-236	-232	-222	-195	-177	-173	-165	-158	-150	-147	-152	-147	-142	-134	-130	-128	-126
29	-115	-104	-95	-90	-78	-71	-59	-39	-4	7	11	34	37	34	37	33	11	-18	-20	-21	-24	-33	-30	-34
30	-40	-42	-46	-38	-42	-60	-72	-81	-65	-46	-42	-19	0	17	32	26	5	-30	-44	-57	-70	-73	-88	-92

Note/avis: 1. Climatological Day/Journée climatologique 0001 C.S.T. - 0000 C.S.T.  
 2. Hours are C.S.T./Les heures sont à l'heure normale de la localité  
 3. Unit/Unité = 0.1°C

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

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	-39	-50	-60	-67	-78	-75	-61	-70	-77	-75	-78	-68	-72	-86	-87	-76	-106	-108	-91	-86	-116	-140	-143	-151
2	-164	-173	-172	-180	-178	-193	-218	-226	-223	-191	-139	-166	-144	-144	-149	-148	-153	-157	-153	-153	-156	-160	-151	-145
3	-154	-146	-148	-144	-138	-124	-113	-111	-109	-102	-93	-80	-65	-61	-56	-49	-41	-41	-39	-36	-37	-34	-32	-29
4	-29	-26	-23	-21	-19	-19	-20	-17	-11	-6	-3	-1	2	10	4	2	2	1	0	0	0	-1	-2	-3
5	-3	-7	-12	-11	-9	-8	-15	-27	-26	-30	-37	-52	-56	-54	-60	-54	-57	-65	-69	-78	-75	-67	-66	-60
6	-54	-57	-51	-41	-39	-43	-41	-37	-26	-18	-2	5	7	4	15	24	36	33	29	25	19	19	12	7
7	6	4	-1	-6	-10	-13	-15	-27	-34	-14	1	6	15	19	33	29	38	35	36	38	47	50	51	49
8	44	30	23	3	3	4	-1	-9	-14	-21	-21	-22	-26	-29	-31	-24	-32	-29	-31	-34	-38	-41	-41	-41
9	-45	-51	-51	-49	-45	-44	-40	-34	-38	-32	-29	-30	-30	-26	-27	-31	-43	-38	-35	-38	-35	-36	-36	-35
10	-39	-51	-59	-56	-55	-43	-39	-37	-43	-41	-42	-46	-43	-39	-30	-23	-23	-10	-3	2	3	0	-10	-18
11	-24	-6	-81	-90	-94	-91	-90	-85	-80	-75	-72	-74	-71	-81	-85	-90	-92	-92	-92	-90	-93	-97	-95	-97
12	-94	-91	-93	-88	-84	-81	-75	-81	-73	-67	-64	-42	-12	-12	-16	-17	-21	-27	-29	-34	-33	-32	-30	-31
13	-31	-36	-36	-42	-60	-55	-30	-45	-49	-50	-51	-53	-54	-54	-54	-55	-57	-65	-67	-73	-76	-80	-85	-88
14	-94	-99	-83	-74	-69	-72	-75	-86	-79	-72	-70	-66	-67	-64	-62	-57	-56	-58	-56	-43	-36	-31	-29	-34
15	-44	-66	-92	-117	-131	-146	-163	-184	-188	-194	-202	-190	-192	-185	-189	-190	-197	-209	-213	-220	-239	-237	-233	-241
16	-235	-233	-243	-244	-247	-248	-248	-249	-244	-231	-213	-215	-208	-204	-200	-206	-204	-205	-201	-198	-192	-185	-174	-169
17	-165	-165	-168	-172	-177	-178	-188	-199	-218	-217	-206	-193	-177	-168	-172	-181	-189	-203	-213	-218	-228	-232	-238	-248
18	-255	-250	-251	-250	-253	-261	-259	-265	-250	-233	-216	-200	-178	-161	-139	-128	-110	-100	-89	-70	-53	-46	-45	-47
19	-48	-48	-46	-44	-39	-22	-5	7	11	15	19	22	22	29	34	43	38	26	24	19	17	21	4	-4
20	-7	-9	-17	-39	-61	-69	-73	-77	-86	-94	-92	-84	-81	-90	-88	-89	-87	-92	-97	-101	-99	-107	-112	-107
21	-109	-110	-112	-109	-111	-111	-108	-106	-102	-96	-90	-85	-82	-85	-85	-85	-90	-96	-102	-107	-112	-128	-149	-157
22	-181	-187	-196	-194	-178	-192	-203	-147	-144	-140	-131	-123	-105	-89	-81	-74	-64	-56	-49	-81	-100	-135	-175	-204
23	-212	-214	-212	-230	-240	-254	-246	-257	-256	-235	-217	-206	-212	-213	-215	-207	-194	-204	-202	-207	-207	-210	-210	-210
24	-207	-206	-206	-211	-208	-198	-190	-172	-162	-125	-131	-120	-110	-98	-88	-80	-79	-79	-86	-82	-76	-60	-74	-85
25	-86	-114	-112	-118	-131	-136	-143	-148	-155	-160	-155	-147	-148	-150	-154	-152	-155	-168	-170	-193	-199	-194	-174	-166
26	-174	-170	-174	-167	-165	-163	-160	-161	-144	-130	-124	-116	-110	-113	-115	-112	-109	-106	-111	-111	-124	-133	-144	-156
27	-160	-169	-204	-218	-224	-228	-237	-244	-252	-251	-242	-240	-237	-235	-229	-230	-235	-242	-249	-250	-255	-259	-263	-269
28	-268	-273	-278	-275	-277	-274	-269	-273	-266	-258	-239	-229	-233	-227	-217	-212	-203	-198	-193	-185	-173	-162	-158	-153
29	-138	-125	-116	-110	-97	-88	-76	-59	-47	-64	-64	-58	-58	-64	-57	-58	-51	-61	-63	-53	-53	-54	-50	-52
30	-57	-58	-58	-51	-55	-67	-77	-82	-69	-59	-57	-41	-30	-24	-21	-33	-35	-43	-54	-70	-77	-94	-111	-117

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

November was dry for the third month in a row. The total precipitation measured was 17.7 mm (normal 25.2 mm). Snowfall was 16.4 cm (normal 21.9 cm) and rainfall was 1.9 mm (normal 5.5 mm). Temperatures were quite a bit below normal, with a mean of -7.7 degrees compared to the normal -4.5. The mean maximum was -2.5 (normal -0.3) and the mean minimum was -12.9 (normal -8.8). The highest reading was 8.0 on the 19th and the lowest, -24.5 on the 28th.

Sunshine was about normal, 98.1 hours compared to 90.7 while the winds were lighter than usual, averaging 15.9 km/h compared to the normal 19.4.

## DAILY WEATHER SUMMARY FOR NOVEMBER 1989

## AT WINNIPEG, MANITOBA

1. Cloudy with intermittent snow throughout the day. Temperatures well below normal. Winds light occasionally moderate.
2. Sunny becoming overcast with light snow late in the evening. Temperatures well below normal. Winds light.
3. Overcast with light snow. Temperatures below normal. Winds moderate occasionally gusting to strong.
4. Overcast with freezing rain, ice pellets and fog in the morning turning to light snow. Temperatures slightly below normal. Winds light.
5. Overcast in the morning, sunny in the afternoon. Temperatures below normal. Winds light except for a period of moderate mid-morning to noon.
6. Cloudy to overcast with light rainshowers in the morning. Temperatures normal. Winds light with a few moderate periods.
7. Sunny in the morning, cloudy increasing to overcast with light rain in the evening. Temperatures slightly above normal. Winds light.
8. Overcast with light snow in the morning. Temperatures slightly above normal. Winds moderate gusting strong, reducing to light late in the afternoon.
9. Overcast with light snow. Temperatures slightly below normal. Winds light.
10. Cloudy. Temperatures above normal. Winds light becoming moderate gusting strong near noon.
11. Cloudy with light snow clearing in the late afternoon. Temperatures near normal. Winds moderate gusting to strong occasional gusts of gale force reducing to light in the evening.
12. Cloudy becoming overcast with light snow. Temperatures slightly below normal. Winds light with a few moderate periods in the afternoon.
13. Cloudy to overcast clearing in the evening. Temperatures slightly below normal. Winds light.
14. Cloudy to overcast with light snow in the evening. Temperatures below normal. Winds light.
15. Cloudy with snow and ice crystals, becoming sunny by noon. Temperatures below normal. Winds moderate reducing to light by late afternoon.
16. Sunny becoming overcast with snow in the evening. Temperatures well below normal. Winds light.
17. Sunny with a few clouds around mid-day. Temperatures well below normal. Winds light with a moderate period in the afternoon.
18. Sunny becoming overcast with light snow in the afternoon. Temperatures below normal. Winds light becoming moderate in the afternoon.
19. Cloudy with rainshowers and freezing rain in the early morning. Temperatures above normal. Winds moderate in the early morning, light through the day with some moderate periods in the evening.
20. Cloudy with a few light snow flurries, clearing late in the afternoon. Temperatures slightly above normal. Winds moderate gusting strong, reducing to light in the late afternoon.
21. Overcast with light snow clearing in the evening. Temperatures below normal. Winds light.
22. Sunny becoming overcast with light snow in the afternoon. Temperatures below normal. Winds light becoming moderate by mid-morning and moderate gusting strong in the evening.
23. Sunny. Temperatures well below normal. Winds light becoming moderate late in the evening.
24. Cloudy with freezing rain in the morning and some sunny periods in the afternoon. Temperatures below normal. Winds moderate gusting strong reducing to light in the late afternoon.
25. Cloudy with snow early in the day otherwise sunny. Temperatures below normal. Winds light to moderate throughout the day.
26. Overcast with light snow. Temperatures below normal. Winds light.
27. Mainly sunny. Temperatures below normal. Winds light.
28. Sunny becoming cloudy in the afternoon. Temperatures below normal. Winds light becoming moderate with strong gusts in the afternoon.
29. Sunny. Temperatures above normal. Winds moderate with strong gusts becoming light in the afternoon.
30. Mainly sunny. Temperatures above normal. Winds light.