



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

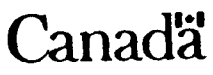
FEBRUARY / FEVRIER

19 91

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

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 TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE HEURES
	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. TOTAL		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°C	BASE 5°C	BASE 18°C	%	%	mm	cm	mm	cm	cm	km/h		km/h	h
1	-1.9	-17.5	-9.7	27.7			89	66					20	18.2	S	S 35	4.5
2	4.9	-5.9	-0.5	18.5			86	65					19	21.8	SSW	SSW30	7.5
3	5.5	-3.2	1.2	16.8			87	71					15	12.4	S	S 19	7.7
4	2.8	-0.1	1.4	16.6			90	81					8	12.5	NNW	NW 20*	3.4
5	3.7	-3.8	-0.1	18.1			98	85					6	24.4	S	S 37	2.1
6	5.1	-1.4	1.9	16.1			85	56	TR.		TR.		5	17.8	WSW	SSW28	8.8
7	5.9	-1.2	2.4	15.6			77	61					4	20.8	SSW	SSW30	6.2
8	4.2	-8.3	-2.1	20.1			83	47					3	14.1	N	N 28	0.2
9	-3.0	-13.0	-8.0	26.0			75	49					3	13.8	NW	NW 22	9.2
10	-12.4	-18.6	-15.5	33.5			60	47					3	12.3	WNW	NNW17*	9.1
11	-6.4	-20.0	-13.2	31.2			71	47					3	14.5	S	S 26*	9.2
12	-4.7	-10.1	-7.4	25.4			82	59					3	14.6	NNE	NNE24*	3.1
13	-7.9	-17.4	-12.7	30.7			87	55			3.8	3.6	4	19.0	N	N 30	0.3
14	-17.3	-25.9	-21.6	39.6			65	49			0.2	0.2	5	20.3	NNW	NNW31	7.2
15	-14.1	-26.3	-20.2	38.2			72	55					5	17.0	S	S 30	7.7
16	-6.0	-17.0	-11.5	29.5			83	65			TR.	TR.	5	11.4	NW	S 22	5.6
17	-7.4	-19.6	-13.5	31.5			88	64			TR.	TR.	5	1.6	CALM	SE 06	6.5
18	-6.9	-14.6	-10.8	28.8			86	57			TR.	TR.	4	3.0	CALM	SE 09	0.0
19	-4.3	-12.1	-8.2	26.2			87	76			0.4	0.4	4	13.2	SSE	SSE37	0.0
20	-1.2	-9.0	-5.1	23.1			93	78			2.6	2.6	6	15.7	NW	S 33	0.2
21	-3.2	-20.2	-11.7	29.7			94	52			2.2	1.8	6	16.5	N	NW 30	1.7
22	-17.7	-23.6	-20.7	38.7			64	47					8	9.6	WNW	NW 19*	8.7
23	-17.1	-22.8	-20.0	38.0			74	55			1.4	1.4	9	4.7	N	N 11	4.9
24	-11.2	-22.4	-16.8	34.8			77	56			TR.	TR.	9	3.2	CALM	W 07*	7.6
25	-9.8	-21.5	-15.7	33.7			81	65			TR.	TR.	9	2.1	CALM	W 07	8.1
26	-8.8	-12.9	-10.9	28.9			83	65			0.2	0.2	9	8.0	WNW	WNW15*	7.0
27	-12.5	-19.3	-15.9	33.9			89	47			0.4	0.2	9	7.8	NW	S 13	8.1
28	-9.6	-20.1	-14.9	32.9			91	69			5.4	3.4	11	9.6	WNW	SSE15	0.0
MEAN MOYENNE	-5.4	-14.6	-10.0	783.8	0.0	0.0	82	60	0	0.7	18.9	17.5		12.8	S	S 37	144.6
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

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 \$3.00 \$29.50 \$3.00 \$29.50
 8. Price: single issue . . . annual (Jan to Dec.) /Prix: numéro individuel . . . annuel (janv à déc.)



MONTH: FEBRUARY 1991
MOIS: FEVRIER 1991

WINNIPEG INTERNATIONAL AIRPORT
AEROPORT INTERN. DE WINNIPEG

DIY-BULB TEMPERATURES AT:
TEMPERATURES DU THERMOMETRE 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	-175	-166	-155	-149	-148	-143	-137	-126	-116	-105	-95	-83	-74	-61	-36	-24	-19	-39	-48	-51	-64	-70	-68	-57
2	-54	-53	-49	-46	-38	-25	-18	5	7	2	11	29	41	44	44	44	40	40	33	26	24	22	16	5
3	3	9	5	-4	-16	-21	-25	-23	-30	-26	-5	12	41	43	49	48	44	36	23	22	27	26	23	27
4	22	20	26	19	25	19	19	21	11	16	9	11	15	19	11	10	8	6	6	5	4	4	2	2
5	-1	0	-6	-10	-18	-26	-32	-37	-30	-26	-19	-10	2	20	21	26	31	34	33	31	28	31	32	32
6	33	28	29	32	29	32	35	33	24	26	25	26	29	33	40	47	50	43	17	16	3	1	-9	-9
7	-8	-4	-7	-8	-5	-11	-2	7	1	3	17	23	35	44	47	51	56	49	47	39	46	51	50	39
8	37	25	19	10	5	8	1	7	-9	-4	23	22	15	2	0	-7	-7	-17	-28	-43	-47	-69	-74	-75
9	-83	-87	-64	-59	-58	-54	-70	-66	-77	-73	-54	-68	-46	-43	-35	-32	-33	-41	-55	-64	-73	-88	-100	-119
10	-128	-137	-146	-154	-163	-167	-172	-180	-185	-178	-174	-168	-161	-155	-148	-144	-144	-148	-157	-163	-170	-177	-175	-175
11	-185	-185	-198	-195	-195	-192	-188	-182	-188	-183	-156	-139	-119	-104	-89	-76	-7	-72	-76	-79	-75	-69	-67	-68
12	-64	-57	-55	-54	-54	-54	-52	-52	-62	-68	-74	-86	-79	-76	-81	-77	-84	-93	-98	-99	-97	-86	-81	-79
13	-79	-82	-87	-89	-91	-91	-97	-100	-103	-105	-107	-109	-108	-102	-99	-101	-100	-105	-115	-121	-134	-140	-141	-163
14	-173	-193	-204	-219	-227	-236	-239	-238	-242	-228	-220	-219	-214	-212	-207	-202	-202	-208	-217	-230	-241	-256	-255	-250
15	-248	-258	-258	-256	-257	-255	-253	-255	-255	-244	-222	-198	-194	-183	-172	-156	-151	-148	-145	-145	-148	-149	-146	-143
16	-145	-147	-150	-152	-149	-155	-149	-128	-127	-113	-107	-88	-68	-61	-70	-76	-79	-88	-103	-130	-147	-159	-168	-160
17	-167	-179	-178	-187	-188	-184	-187	-192	-191	-165	-128	-113	-87	-83	-81	-79	-76	-85	-102	-102	-104	-110	-115	-111
18	-128	-134	-104	-102	-106	-108	-108	-105	-101	-96	-90	-84	-77	-74	-72	-72	-71	-71	-73	-79	-79	-80	-83	-89
19	-101	-112	-112	-108	-86	-83	-78	-78	-76	-72	-68	-62	-59	-60	-59	-54	-49	-48	-47	-48	-45	-46	-47	-50
20	-50	-49	-50	-50	-47	-43	-34	-37	-41	-37	-38	-32	-25	-19	-17	-14	-20	-16	-20	-24	-40	-58	-70	-55
21	-53	-54	-43	-40	-35	-33	-43	-45	-44	-56	-54	-83	-105	-103	-99	-106	-118	-125	-128	-134	-148	-163	-186	-192
22	-196	-206	-206	-211	-222	-222	-236	-229	-231	-227	-218	-206	-195	-190	-185	-181	-180	-184	-185	-188	-186	-187	-187	-188
23	-192	-200	-192	-186	-188	-179	-179	-182	-184	-185	-182	-181	-178	-174	-173	-172	-173	-178	-184	-193	-199	-211	-210	-228
24	-224	-195	-194	-191	-194	-188	-182	-172	-170	-167	-151	-142	-134	-128	-124	-123	-119	-116	-121	-127	-131	-136	-150	-161
25	-183	-192	-199	-195	-198	-195	-197	-206	-213	-194	-171	-144	-130	-127	-116	-105	-108	-116	-121	-127	-134	-134	-130	-128
26	-128	-126	-126	-121	-114	-115	-113	-114	-113	-114	-119	-111	-105	-97	-91	-90	-92	-93	-106	-105	-105	-108	-110	-117
27	-125	-137	-152	-172	-172	-178	-175	-171	-172	-177	-175	-173	-167	-154	-146	-143	-145	-148	-155	-166	-167	-171	-177	-174
28	-170	-161	-150	-151	-148	-145	-139	-134	-129	-120	-110	-104	-97	-105	-109	-107	-103	-116	-114	-123	-134	-135	-135	-172

Notes/Avis: 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

WINNIPEG INTERNATIONAL AIRPORT
AEROPORT INTERN. DE WINNIPEG

HOURLY DEW POINT TEMPERATURE AT:
TEMPERATURE DE ROSEE HORAIRES 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	-220	-213	-203	-198	-196	-190	-185	-169	-142	-129	-118	-107	-99	-88	-73	-67	-62	-71	-80	-71	-81	-87	-86	-79
2	-78	-77	-72	-65	-59	-48	-45	-34	-35	-39	-33	-27	-17	-13	-13	-11	-11	-11	-12	-13	-15	-18	-22	-29
3	-33	-35	-34	-36	-45	-47	-51	-52	-58	-55	-44	-27	-8	-3	3	4	2	1	-4	-6	-3	-2	-1	1
4	0	-3	-2	-3	-1	-4	-5	-5	-8	-9	-13	-12	-11	-5	-7	-7	-9	-10	-12	-12	-14	-17	-18	-19
5	-16	-17	-20	-22	-25	-32	-40	-45	-37	-32	-24	-15	1	2	2	4	9	12	13	15	15	16	16	13
6	12	7	6	5	4	6	6	-2	-3	-12	-15	-22	-25	-33	-35	-29	-32	-27	-31	-39	-42	-40	-42	-43
7	-44	-48	-56	-54	-56	-58	-55	-59	-59	-53	-40	-30	-19	-10	-9	-2	5	3	9	-1	-1	-2	-7	-9
8	-8	-10	-11	-15	-18	-20	-26	-30	-38	-32	-19	-24	-31	-83	-85	-93	-104	-105	-109	-103	-107	-116	-125	-130
9	-137	-135	-121	-131	-117	-110	-116	-112	-115	-112	-106	-114	-110	-116	-108	-120	-112	-128	-137	-144	-145	-161	-174	-178
10	-187	-198	-221	-224	-228	-233	-247	-250	-255	-255	-257	-253	-244	-241	-235	-230	-228	-229	-229	-232	-235	-241	-244	-249
11	-254	-256	-257	-251	-247	-235	-232	-240	-247	-246	-240	-224	-198	-180	-166	-163	-141	-145	-145	-148	-140	-134	-125	-120
12	-109	-99	-94	-91	-89	-86	-85	-76	-95	-99	-114	-123	-118	-119	-121	-121	-132	-136	-147	-151	-146	-147	-144	-147
13	-145	-133	-120	-117	-115	-116	-118	-120	-125	-127	-132	-130	-130	-125	-124	-128	-142	-150	-170	-187	-172	-181	-191	-221
14	-245	-258	-265	-278	-287	-292	-293	-292	-296	-284	-270	-279	-279	-279	-280	-275	-276	-279	-287	-296	-306	-317	-318	-312
15	-311	-315	-312	-305	-303	-301	-300	-301	-303	-295	-280	-264	-263	-247	-233	-215	-213	-203	-197	-194	-194	-194	-189	-184
16	-187	-190	-193	-194	-190	-193	-185	-168	-151	-138	-136	-116	-107	-114	-126	-126	-127	-133	-151	-165	-183	-189	-208	-206
17	-207	-218	-217	-220	-221	-217	-220	-229	-227	-199	-179	-168	-143	-132	-132	-131	-126	-123	-133	-133	-133	-134	-138	-132
18	-145	-162	-129	-145	-151	-152	-155	-152	-157	-160	-156	-152	-147	-138	-133	-129	-122	-115	-111	-105	-106	-105	-106	-110
19	-120	-133	-130	-128	-109	-104	-103	-102	-100	-96	-88	-92	-95	-94	-95	-88	-81	-79	-78	-78	-76	-76	-76	-73
20	-69	-60	-60	-61	-57	-54	-46	-49	-54	-51	-53	-50	-44	-45	-46	-45	-52	-49	-46	-49	-56	-73	-75	-65
21	-65	-65	-54	-55	-49	-46	-55	-55	-53	-65	-68	-100	-138	-139	-139	-150	-158	-167	-173	-184	-195	-232	-249	-255
22	-262	-267	-264	-273	-272	-275	-288	-282	-289	-286	-280	-272	-266	-261	-260	-263	-261	-264	-265	-262	-262	-266	-263	-259
23	-259	-254	-248	-256	-241	-253	-248	-227	-226	-226	-226	-226	-224	-219	-234	-242	-241	-241	-258	-260	-244	-264	-250	-275
24	-260	-233	-233	-228	-235	-234	-231	-225	-220	-217	-211	-206	-202	-193	-192	-183	-180	-170	-171	-169	-172	-178	-190	-190
25	-219	-227	-236	-232	-231	-232	-236	-251	-257	-230	-204	-189	-182	-174	-168	-159	-144	-150	-154	-158	-162	-160	-155	-153
26	-153	-151	-151	-147	-146	-145	-143	-140	-140	-141	-145	-138	-137	-133	-136	-143	-140	-142	-155	-152	-149	-148	-144	-145
27	-148	-158	-176	-192	-191	-204	-205	-215	-214	-217	-224	-226	-227	-224	-218	-226	-230	-231	-229	-228	-225	-230	-235	-234
28	-216	-204	-186	-186	-180	-174	-170	-164	-142	-140	-131	-216	-119	-126	-131	-129	-129	-141	-142	-149	-164	-165	-165	-192

Note/avis: 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

CLIMATOLOGICAL SUMMARY FOR FEBRUARY 1991 AT WINNIPEG, MANITOBA

Record setting warmth during the first week of February was the main reason for a monthly mean temperature that was 5.6 degrees above the 1951-80 normal. Maximum temperatures during that week were more akin to those expected during the first week of April, while minima were like those expected in mid April. Seven maximum temperature records were broken between the 3rd and the 8th including 2 high maximum and 5 high minimum records. Temperatures following the first 8 days of the month were much colder but were still above normal. February 1991 ranks as the 9th warmest on record but the mean temperature of -10.0 falls well short of the record mean temperature of -5.1 set in 1878.

Precipitation was approximately 80% of normal. A trace of rain fell on the 6th. Sunshine was almost exactly normal.

DAILY WEATHER SUMMARY FOR FEBRUARY 1991

AT WINNIPEG, MANITOBA

1. Mostly cloudy with afternoon and evening sunny periods. Maximum temperature well above normal, minimum above normal. Light winds increasing to moderate with strong gusts early morning decreasing to light early afternoon.
2. Mostly sunny with late afternoon cloudy periods. Temperatures well above normal. Light winds increasing to moderate early morning decreasing to light near midnight.
3. Sunny becoming partly cloudy mid-afternoon. Temperatures well above normal. Daily record high minimum set. Light winds.
4. Cloudy becoming overcast mid-afternoon. Temperatures well above normal. Daily record high minimum set. Light winds.
5. Cloudy with overnight fog dissipating late morning, sunny breaks afternoon and evening. Temperatures well above normal. Daily record high minimum set. Light winds increasing to moderate early morning.
6. Mainly sunny. Temperatures well above normal. Daily record high maximum and minimum set. Moderate winds decreasing to light early afternoon.
7. Becoming cloudy early afternoon. Temperatures well above normal. Daily record high minimum set. Light winds with moderate periods in the morning.
8. Mainly sunny with late morning and early afternoon cloudy periods. Temperatures well above normal. Daily record high maximum set. Light winds with a moderate period early afternoon.
9. Sunny. Temperatures well above normal. Light winds.
10. Mostly sunny. Temperatures near normal. Light winds.
11. Mostly sunny becoming cloudy mid-evening. Maximum temperature slightly above normal, minimum near normal. Light winds increasing to moderate early afternoon decreasing to light near midnight.
12. Cloudy to overcast. Maximum temperature above normal, minimum well above normal. Light winds.
13. Cloudy to overcast with snow beginning overnight, ending mid-evening, becoming clear near midnight. Temperatures slightly above normal. Light winds increasing to moderate late morning.
14. Mainly sunny with early morning cloud and periods of snow. Maximum temperature well below normal, minimum below normal. Moderate winds decreasing to light early evening.
15. Mainly sunny with evening cloudy periods. Temperatures below normal. Light winds increasing to moderate late afternoon.
16. Becoming mainly cloudy early morning with period of snow late morning, clearing early evening. Temperatures slightly above normal. Wind decreasing to light overnight.
17. Clear overnight, mainly sunny with late morning and early afternoon cloudy periods. Period of snow late morning. Temperatures near normal. Light winds.
18. Becoming cloudy to overcast overnight. Periods of snow or snowflurries beginning early afternoon. Maximum temperature slightly above normal, minimum above normal. Light winds.
19. Cloudy to overcast with periods of snow throughout the day. Maximum temperature above normal, minimum well above normal. Light winds increasing to moderate early evening.
20. Overcast to cloudy with snow overnight. Temperatures well above normal. Moderate winds decreasing to light mid-afternoon.
21. Cloudy to overcast with periods of snow and blowing snow ending early afternoon, clearing early evening. Maximum temperature above normal, minimum near normal. Light winds increasing to moderate with occasional gust mid-morning decreasing to light near midnight.
22. Sunny becoming mostly cloudy late afternoon. Maximum temperature well below normal, minimum below normal. Light winds.
23. Cloudy to overcast with snow, clearing late afternoon. Maximum temperature well below normal, minimum below normal. Light winds.
24. Mostly cloudy with afternoon sunny periods, clearing near midnight. Temperatures slightly below normal. Light winds.
25. Sunny becoming cloudy late afternoon. Temperatures near normal. Light winds.
26. Cloudy to overcast with a few sunny periods near noon. Periods of snow early morning and late evening. Maximum temperature near normal, minimum above normal. Light winds.
27. Cloudy with snow overnight becoming sunny late morning becoming cloudy with snow late evening. Maximum temperature below normal, minimum near normal. Light winds.
28. Cloudy to overcast with snow ending early evening. Temperatures near normal. Light winds.