

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JANUARY

19 93

AT/A

WINNIPEG INT'L AIRPORT

LAT: 049° 054' N		LONG: 097° 017' W		ELEVATION ALTITUDE 240		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	CROWING DE CROISSANCE	COOLING DE REFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	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 & DIRECTION
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%	mm	mm	mm	mm	km/h		km/h		
1	-22.6	-33.7	-28.2	46.2			61	51					36	15.8	S	S 24	6.9
2	-8.6	-22.5	-15.6	33.6			92	58			2.0	0.6	35	16.5	SSE	SSE 24	0.0
3	-13.2	-23.9	-18.6	36.6			85	59			0.2	0.2	36	10.3	NW	NNW 22	6.3
4	-16.8	-26.7	-21.8	39.8			77	62			TR	TR	36	4.7	WSW	S 11	0.0
5	-17.2	-25.0	-21.1	39.1			71	57			0.2	0.2	36	9.7	W	W 22	1.3
6	-19.6	-26.7	-23.2	41.2			70	57			TR	TR	36	17.7	W	SW 30	3.1
7	-23.1	-30.1	-26.6	44.6			76	61			TR	TR	36	4.0	W	WSW 7	3.9
8	-28.3	-34.7	-31.5	49.5			82	60			TR	TR	36	4.5	WNW	WNW 9	1.8
9	-26.2	-35.3	-30.8	48.8			69	60			TR	TR	36	8.0	S	SSW 20	4.7
10	-19.4	-34.7	-27.1	45.1			70	60					36	13.4	S	S 19	6.6
11	-9.5	-19.4	-14.5	32.5			85	66			2.0	1.4	37	14.8	SE*	SE 22	0.0
12	-8.5	-10.4	-9.5	27.5			92	85			4.2	2.4	37	16.0	NE	NNE 26	0.0
13	-10.1	-19.9	-15.0	33.0			92	65			TR	TR	39	15.0	NNE	NNE 26	5.1
14	-15.6	-23.0	-19.3	37.3			77	65			TR	TR	39	6.8	NNE*	NNE 11	5.1
15	-16.6	-25.3	-21.0	39.0			77	63			TR	TR	37	26.3	S	S 41	4.0
16	-10.1	-20.8	-15.5	33.5			78	65					37	19.3	WNW	NW 35	7.6
17	-13.5	-24.2	-18.9	36.9			72	50					36	15.3	S	WNW 22	1.8
18	-12.3	-19.3	-15.8	33.8			77	56					35	12.5	S	S 19	6.6
19	-4.1	-19.7	-11.9	29.9			93	64					35	31.4	S	S 50	6.5
20	-3.6	-9.3	-6.5	24.5			86	79		TR	1.6	1.6	35	40.3	S	S 44	5.2
21	-1.2	-6.3	-3.8	21.8			93	79		TR		TR	35	30.5	S	S 46	0.0
22	-1.2	-12.5	-6.9	24.9			92	68					34	14.6	W	W 26	7.8
23	-7.6	-14.9	-11.3	29.3			85	67					33	14.1	W	WNW 19	7.5
24	-14.6	-22.9	-18.8	36.8			92	59			TR	TR	33	10.4	WNW	NW 19	7.2
25	-9.4	-23.5	-16.5	34.5			92	70			2.6	2.6	33	29.7	S	S 43	0.5
26	-8.9	-21.3	-15.1	33.1			92	59			0.4	0.4	35	19.2	NNW	NNW 35	2.0
27	-8.9	-21.7	-15.3	33.3			92	64			5.0	4.4	35	12.0	SSE	N 28	0.0
28	-14.9	-23.5	-19.2	37.2			84	54			0.2	0.2	40	21.5	W	N 39	9.0
29	-5.5	-22.5	-14.0	32.0			86	52					40	17.9	SSW*	WSW 30	6.1
30	5.1	-6.4	-0.7	18.7			86	65					37	23.0	W	W 33	3.1
31	4.5	-5.8	-0.7	18.7			86	65					28	18.2	W*	W 30	8.1
MEAN MOYENNE	-11.7	-21.5	-16.6	1072.7	0.0	0.0	83	63	0	TR	18.4	14.0		16.6	S	MAXIMALE S 50	TOTAL 127.8
NORMAL NORMALE	-13.2	-23.6	-18.3	1129.1	0.0	0.0			0	0.3	22.6	19.3		18.0	NW		119.7

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

BELOW 18°C AU-DESSOUS 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	DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES					DAYS WITH SNOWFALL JOURS AVEC CHÔTE DE NEIGE				
								02 OR MORE OU PLUS	18 OR MORE OU PLUS	28 OR MORE OU PLUS	188 OR MORE OU PLUS	300 OR MORE OU PLUS	02 OR MORE OU PLUS	10 OR MORE OU PLUS	20 OR MORE OU PLUS	188 OR MORE OU PLUS	300 OR MORE OU PLUS
TOTAL FOR MONTH TOTAL DU MOIS	1072.7	913.1	1129.1	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	10	5	3	0	0	10	6	5	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	3583.3	3315.2	3449.8	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1523.2	2024.4	1800.3	10	5	3	0	0	10	6	5	0	0

UOC 561 508 1 ()

Note/Arts

1 Climatological Day/Jourées climatologique 00_01 C ST - 23_00 C ST

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 \$3.00 annual (Jan to Dec) \$29.50 /Prix numéro individuel \$3.00 annual (Janv à déc) \$29.50



DRY BULB TEMPERATURE SUMMARY
 SOMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

JANUARY 1993
 PAGE 3

HR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
D	-307	-310	-314	-312	-313	-316	-312	-309	-324	-334	-302	-284	-280	-271	-267	-262	-262	-264	-254	-251	-247	-248	-244	-235	-284
A	-226	-211	-192	-180	-166	-157	-149	-145	-142	-135	-127	-114	-109	-102	-95	-87	-87	-89	-90	-100	-125	-133	-135	-134	-135
T	-132	-134	-134	-133	-134	-159	-161	-178	-182	-193	-209	-206	-200	-197	-194	-195	-197	-211	-222	-214	-212	-215	-222	-228	-186
E	-232	-257	-261	-255	-257	-262	-265	-254	-258	-252	-256	-223	-203	-203	-200	-199	-190	-184	-191	-188	-183	-174	-175	-181	-221
	-173	-176	-185	-199	-200	-199	-198	-200	-199	-201	-192	-181	-182	-190	-200	-203	-208	-218	-223	-224	-224	-223	-228	-240	-203
	-248	-250	-264	-260	-258	-258	-252	-242	-227	-216	-199	-202	-203	-202	-199	-197	-207	-208	-220	-222	-221	-212	-213	-228	-225
	-239	-255	-261	-266	-275	-275	-266	-286	-278	-283	-265	-242	-250	-241	-245	-251	-238	-259	-260	-266	-275	-283	-291	-295	-264
	-287	-301	-309	-312	-306	-325	-336	-342	-329	-343	-340	-322	-310	-295	-290	-292	-293	-297	-306	-319	-321	-331	-308	-311	-314
	-313	-322	-335	-337	-346	-345	-350	-349	-334	-338	-321	-295	-298	-264	-269	-292	-311	-317	-324	-327	-327	-321	-321	-319	-318
	-328	-330	-338	-334	-340	-343	-339	-343	-339	-338	-325	-292	-278	-264	-254	-256	-248	-245	-237	-238	-235	-227	-221	-204	-287
	-194	-188	-180	-176	-172	-158	-152	-149	-143	-135	-130	-124	-120	-114	-110	-109	-107	-105	-101	-100	-96	-97	-96	-97	-131
	-97	-97	-97	-97	-97	-98	-99	-100	-98	-100	-102	-100	-97	-93	-87	-86	-95	-92	-92	-92	-92	-97	-100	-101	-96
	-101	-105	-108	-114	-118	-138	-139	-147	-160	-174	-166	-168	-177	-176	-169	-172	-174	-183	-199	-196	-189	-179	-177	-175	-159
	-171	-170	-168	-174	-180	-184	-199	-206	-214	-224	-218	-224	-218	-187	-183	-174	-169	-177	-187	-195	-212	-209	-216	-224	-194
	-223	-239	-245	-248	-250	-252	-248	-241	-242	-243	-233	-216	-203	-205	-192	-184	-183	-185	-179	-171	-168	-168	-166	-170	-211
	-174	-182	-188	-199	-205	-217	-226	-225	-233	-234	-218	-197	-180	-164	-163	-160	-152	-158	-157	-157	-152	-144	-135	-159	-183
	-181	-181	-183	-202	-215	-217	-178	-188	-184	-186	-173	-163	-152	-138	-127	-126	-146	-160	-169	-171	-179	-189	-185	-187	-164
	-139	-147	-152	-155	-165	-173	-178	-178	-186	-185	-173	-163	-152	-138	-127	-126	-146	-160	-169	-171	-179	-189	-185	-187	-132
	-193	-188	-192	-196	-194	-194	-193	-192	-193	-187	-175	-161	-149	-118	-110	-94	-76	-68	-61	-50	-43	-49	-41	-44	-44
	-43	-44	-61	-69	-84	-87	-88	-92	-91	-90	-93	-85	-80	-80	-79	-77	-80	-79	-79	-81	-83	-84	-71	-58	-77
	-59	-62	-60	-53	-53	-50	-48	-47	-48	-49	-47	-45	-45	-43	-41	-39	-37	-39	-40	-43	-45	-25	-26	-29	-45
	-21	-15	-13	-24	-31	-38	-42	-47	-61	-61	-58	-54	-47	-36	-36	-32	-35	-57	-72	-104	-108	-116	-121	-122	-56
	-107	-101	-108	-112	-98	-101	-109	-121	-113	-95	-114	-111	-100	-89	-81	-79	-78	-89	-107	-114	-126	-131	-137	-148	-107
	-146	-167	-185	-166	-166	-158	-168	-162	-158	-155	-154	-156	-158	-157	-160	-163	-166	-174	-192	-195	-196	-200	-215	-215	-172
	-227	-234	-229	-226	-229	-216	-219	-211	-204	-195	-185	-176	-167	-160	-157	-156	-150	-142	-131	-122	-114	-108	-103	-98	-173
	-94	-90	-91	-97	-95	-97	-94	-94	-94	-118	-124	-134	-139	-144	-145	-142	-152	-159	-169	-166	-170	-187	-202	-202	-133
	-211	-204	-189	-192	-200	-194	-185	-179	-176	-164	-152	-147	-139	-127	-118	-107	-99	-101	-93	-91	-91	-114	-153	-148	-149
	-149	-152	-159	-175	-180	-184	-193	-215	-233	-232	-227	-220	-213	-201	-189	-183	-182	-192	-199	-206	-210	-217	-217	-217	-198
	-221	-218	-216	-207	-190	-175	-193	-222	-210	-190	-170	-137	-117	-91	-82	-70	-72	-72	-80	-72	-67	-57	-69	-67	-136
	-61	-53	-50	-38	-32	-26	-25	-36	-34	-25	-4	11	19	37	42	47	49	48	46	43	38	37	35	37	4
	33	30	36	28	38	32	32	33	21	30	28	35	36	34	33	42	34	32	28	3	-22	-30	-21	-43	21

MEAN -170 -173 -215 -177 -178 -179 -180 -183 -183 -182 -175 -163 -157 -148 -144 -141 -142 -148 -151 -154 -157 -159 -160 -161 -164
 MOYENNE

*TEMPERATURES IN TENTHS OF DEGREES CELSIUS
 *TEMPERATURES EN DIXIEME DEGRES CELSIUS

HOUR ->	DIR.																								PEAK WIND SPEED	WIND TIME	
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
D 1	SW	SW	SW	SSW	SW	SSW	SSW	SSW	S	SSW	S	S	SSE	S	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	32	04:00
A 13	SW	SW	SW	SSW	SW	SSW	SSW	SSW	S	SSW	S	S	SSE	S	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	32	04:00
Y 2	SE	ESE	SSE	SE	SE	SSE	SSE	SSE	SE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
O 19	SE	ESE	SSE	SE	SE	SSE	SSE	SSE	SE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
F 3	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	SE	32	04:00
M 11	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	SE	32	04:00
O 6	W	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	32	04:00
N 6	W	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	32	04:00
T 7	W	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	32	04:00
H 11	NNE	NNE	NNE	NNE	N	NW	C	NW	C	NW	C	ESE	WSW	W	WSW	WSW	W	WSW	WSW	W	WSW	WSW	W	WSW	SE	32	04:00
5	NNE	NNE	NNE	NNE	N	NW	C	NW	C	NW	C	ESE	WSW	W	WSW	WSW	W	WSW	WSW	W	WSW	WSW	W	WSW	SE	32	04:00
6	W	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	32	04:00
7	WSW	SW	SSW	WSW	W	W	WNW	WNW	WNW	C	WSW	W	WNW	WNW	N	W	W	WSW	WSW	W	WSW	WSW	C	W	SE	32	04:00
8	W	C	C	WSW	C	C	NW	WSW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SE	32	04:00
9	WNW	WNW	WNW	C	WNW	W	WNW	C	C	SW	C	C	SSW	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
10	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
11	SSE	S	SSE	SSE	SE	SSE	SSE	SSE	SE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
12	ESE	ESE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	SE	32	04:00
13	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	SE	32	04:00
14	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	32	04:00
15	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00
16	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	32	04:00

41 14:40

DAILY WEATHER SUMMARY FOR JANUARY, 1993 AT WINNIPEG, MANITOBA

1. Clear becoming cloudy by late evening. Temperatures well below normal. Winds light.
2. Overcast with snow by early morning. Maximum temperatures above normal, minimum temperatures near normal. Winds light increasing to moderate in early morning and light by early afternoon.
3. Overcast with light snow ending by early morning becoming clear by late morning. Temperatures near normal. Winds light.
4. Clear becoming cloudy by late morning with light snow by late afternoon. Temperatures slightly below normal. Winds light.
5. Overcast with light snow ending by early evening and becoming clear by late evening. Maximum temperatures slightly below normal, minimum temperatures near normal. Winds light.
6. Increasing cloud overnight with snow in morning clearing in late evening. Maximum temperatures below normal, minimum temperatures slightly below normal. Winds increasing to moderate overnight and decreasing to light by early afternoon.
7. Mainly clear. Maximum temperatures well below normal, minimum temperatures below normal. Winds light.
8. Mainly clear with fog overnight reducing visibility to less than 1 KM ending in early afternoon. Temperatures well below normal. Winds light.
9. Clear. Temperatures well below normal. Winds light.
10. Clear with increasing cloud by late morning. Maximum temperatures below normal, minimum temperatures well below normal. Winds light.
11. Overcast with snow beginning overnight. Temperatures above normal. Winds light.
12. Overcast with snow. Maximum temperature above normal, minimum temperature well above normal. Winds light increasing to moderate by late afternoon, decreasing to light by early evening.
13. Cloudy with snow ending in early afternoon. Temperatures above normal. Winds light.
14. Cloudy with snow overnight ending and clearing in early afternoon. Temperatures near normal. Winds light.
15. Clear becoming cloudy with snow overnight ending in early evening and clearing in late evening. Temperatures near normal. Winds light increasing to moderate with strong gusts in early morning and decreasing to light in late evening.
16. Mainly clear. Temperatures above normal. Winds light increasing to moderate in late morning.
17. Clear with increasing cloud in early morning. Temperatures near normal. Winds decreasing to light overnight.
18. Clearing overnight. Maximum temperatures slightly above normal, minimum temperatures above normal. Winds light.
19. Clear with increasing cloud in early afternoon. Maximum temperatures well above normal, minimum temperatures above normal. Winds light increasing to moderate overnight with strong gusts by early afternoon.
20. Overcast with snow and freezing rain in early morning, clearing by early afternoon, becoming overcast by late evening. Temperatures well above normal. Winds moderate with strong gusts.
21. Overcast with freezing drizzle in early morning clearing in early evening. Temperatures well above normal. Winds moderate with strong gusts decreasing to light by early evening.
22. Mainly sunny. Temperatures well above normal. Winds light.
23. Mainly sunny. Temperatures well above normal. Winds light.
24. Becoming cloudy with snow overnight ending in early morning, clearing in late morning. Temperatures near normal. Winds light.
25. Becoming overcast with snow overnight. Maximum temperatures above normal, minimum temperatures near normal. Winds increasing to moderate by early morning with strong gusts in early afternoon, decreasing to light by late evening.
26. Overcast with snow ending by late morning and variable cloud by late afternoon. Maximum temperatures above normal, minimum temperatures slightly above normal. Winds light increasing to moderate overnight and decreasing to light by late afternoon.
27. Becoming overcast with snow overnight and snow and freezing rain by late afternoon ending in late evening. Maximum temperatures above normal, minimum temperatures slightly above normal. Winds light increasing to moderate by late evening.
28. Overcast with snow overnight and becoming clear by early morning. Temperatures near normal. Winds moderate with strong gusts decreasing to light by early morning.
29. Clear becoming cloudy by late morning. Maximum temperature well above normal, minimum temperature near normal. Winds light increasing to moderate by late morning decreasing to light by late afternoon.
30. Mainly cloudy. Temperatures well above normal. Winds light increasing to moderate overnight with strong gusts by late afternoon.
31. Cloudy becoming sunny by late morning. Temperatures well above normal. Moderate winds decreasing to light by early afternoon.