

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: FEBRUARY
 AT/A: WINNIPEG INT'L AIRPORT

19 93

LAT: 049° 054' N		LONG: 097° 017' W		ELEVATION ALTITUDE: 240		METRES (ASL) MÉTRES (NNM):		STANDARD TIME USED HEURE NORMALE UTILISÉE: CENTRAL											
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE HOURS HEURES			
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	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 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			
1	1.9	-6.6	-2.4	20.4			93	75					23	22.9	S	SSW	37	8.1	
2	3.1	-4.4	-0.7	18.7			86	65					22	11.7	W	SSW	28	5.5	
3	0.4	-9.8	-4.7	22.7			92	69					20	10.5	SSW	SSW	24	6.9	
4	0.2	-10.8	-5.3	23.3			86	69					20	19.0	SSW	SSW	28	6.3	
5	-10.3	-14.2	-12.3	30.3			85	72					20	21.8	NNE	NNE	33	0.9	
6	-6.3	-13.0	-9.7	27.7			93	72			TR	TR	20	16.4	SSE	S	26	0.0	
7	-8.7	-18.7	-13.7	31.7			85	59			TR	TR	20	16.7	N	N	28	3.3	
8	-6.8	-19.9	-13.4	31.4			93	64		TR		TR	20	23.3	S	S	46	2.5	
9	-4.9	-18.5	-11.7	29.7			93	60				TR	33	26.5	N	NNW	39	6.8	
10	-18.0	-24.0	-21.0	39.0			70	59					33	19.2	N	N	26	7.8	
11	-10.7	-26.8	-18.8	36.8			70	47					33	8.3	NNE	N	13	7.1	
12	-9.2	-16.3	-12.8	30.8			92	51			TR	TR	32	8.5	S	SE	15	7.4	
13	-11.2	-20.2	-15.7	33.7			92	72			TR	TR	32	9.9	WNW	NW	17	5.2	
14	-15.6	-21.0	-18.3	36.3			92	50			TR	TR	32	9.0	W*	W	15	7.4	
15	-18.4	-27.4	-22.9	40.9			70	49			TR	TR	32	10.1	W	W	17	9.0	
16	-22.2	-29.6	-25.9	43.9			68	52						11.1	WNW	WNW	19	8.3	
17	-16.8	-27.8	-22.3	40.3			71	53					32	14.9	W	W	17	7.9	
18	-13.3	-20.2	-16.8	34.8			71	55					32	10.9	W	W	19	8.3	
19	-14.1	-23.7	-18.9	36.9			77	60					31	5.7	N	NNE	9	7.4	
20	-11.7	-23.0	-17.4	35.4			78	56					31	7.3	SSE	NNE	15	3.8	
21	-14.4	-21.7	-18.1	36.1			78	54			TR	TR	31	20.7	N	N	33	8.0	
22	-18.7	-25.0	-21.9	39.9			70	53			0.2	0.2	31	13.9	NNW	NNW	20	6.4	
23	-16.1	-28.4	-22.3	40.3			69	58					31	9.0	SW	W	17	5.5	
24	-14.3	-24.5	-19.4	37.4			70	54					31	19.6	SSW	SSW	30	9.0	
25	-12.1	-23.9	-18.0	36.0			71	59					30	9.5	SSW	SSW	22	8.9	
26	-8.2	-21.4	-14.8	32.8			78	64					30	25.1	S	S	35	8.9	
27	-6.1	-17.7	-11.9	29.9			79	71					30	27.8	S	S	43	4.4	
28	1.8	-10.9	-4.6	22.6			86	68					30	16.6	S	S	32	8.9	
29																			
30																			
31																			
MEAN MOYENNE	-10.0	-19.6	-14.8	919.7	TOTAL 0.0	TOTAL 0.0	81	60	TOT 0	TOTAL TR	TOTAL 0.2	TOTAL 0.2		15.2	PREVAILING DIRECTION DOMINANTE S	MAXIMALE S	46	TOTAL 179.9	
NORMAL NORMALE	-9.7	-20.6	-15.1	936.2	0.0	0.0			0	0.4	17.1	14.8		17.0	S				139.9

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES

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					
								0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	30.0 OR MORE - OU PLUS	0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	30.0 OR MORE - OU PLUS	
TOTAL FOR MONTH TOTAL DU MOIS	919.7	815.1	936.2	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	1	0	0	0	0	0	1	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	4503.0	4130.3	4386.0	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1523.2	2024.4	1800.3	1	0	0	0	0	1	0	0	0	0	0

UDC 551.506 (1)

Note/Aviz

1. Climatological Day/Journée climatologique 00 01 C S.T. - 23 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

8. Price single issue . annual (Jan. to Dec) /Prix numéro individuel . annuel (janv à déc)



DRY BULB TEMPERATURE SUMMARY
 SOMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

FEBRUARY 1993
 PAGE 3

HOUR->	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	1	-54	-58	-53	-54	-48	-54	-55	-45	-36	-40	-29	-21	-14	-1	7	16	15	17	17	12	12	15	18	11	-18	
A	2	13	12	-1	4	1	-2	-5	-7	-16	-8	-13	10	28	26	22	24	25	14	-3	-4	-3	-26	-29	1	-1	
T	3	-44	-52	-59	-76	-76	-68	-78	-80	-90	-88	-48	-24	-9	2	-11	-20	-18	-25	-29	-37	-40	-44	-41	-43	-46	
E	4	-48	-63	-68	-67	-69	-79	-80	-65	-75	-69	-58	-39	-27	-13	2	-1	-17	-24	-35	-56	-66	-81	-90	-105	-54	
	5	-108	-107	-111	-121	-127	-114	-116	-127	-137	-137	-141	-133	-127	-114	-111	-109	-113	-115	-118	-125	-125	-128	-128	-126	-121	
	6	-125	-122	-123	-125	-127	-130	-126	-124	-120	-116	-113	-108	-103	-94	-90	-80	-75	-72	-69	-64	-68	-70	-75	-88	-100	
	7	-98	-109	-108	-97	-90	-90	-95	-97	-97	-98	-101	-109	-116	-118	-128	-130	-134	-141	-148	-160	-170	-180	-179	-184	-124	
	8	-186	-188	-192	-197	-179	-182	-183	-181	-183	-178	-170	-151	-134	-117	-106	-101	-96	-96	-100	-103	-98	-83	-79	-73	-140	
	9	-68	-68	-68	-66	-66	-64	-62	-58	-58	-67	-74	-90	-98	-103	-104	-108	-114	-123	-136	-156	-169	-175	-179	-182	-204	
	10	-185	-185	-190	-198	-207	-215	-220	-228	-236	-232	-225	-216	-209	-196	-190	-182	-181	-185	-192	-200	-203	-202	-206	-210	-204	
	11	-227	-243	-246	-247	-253	-257	-262	-265	-251	-247	-218	-212	-196	-179	-147	-123	-110	-120	-129	-142	-152	-153	-110	-110	-192	
	12	-112	-119	-119	-121	-122	-122	-128	-128	-141	-137	-118	-109	-106	-101	-94	-98	-101	-107	-116	-130	-134	-139	-149	-156	-121	
	13	-156	-159	-159	-174	-187	-197	-197	-188	-185	-181	-163	-151	-143	-134	-120	-116	-118	-130	-137	-144	-162	-165	-159	-164	-158	
	14	-180	-189	-176	-184	-173	-176	-193	-197	-181	-169	-167	-176	-170	-163	-158	-157	-160	-165	-179	-188	-188	-186	-198	-207	-178	
	15	-207	-208	-206	-203	-202	-215	-223	-235	-244	-235	-224	-215	-210	-197	-193	-191	-187	-191	-209	-212	-215	-217	-228	-265	-214	
	16	-244	-264	-268	-278	-281	-279	-286	-280	-281	-281	-270	-256	-247	-237	-228	-224	-225	-228	-233	-249	-258	-262	-268	-260	-258	
	17	-248	-255	-257	-262	-265	-272	-277	-273	-282	-263	-250	-235	-218	-206	-201	-192	-183	-181	-188	-183	-176	-183	-179	-171	-225	
	18	-168	-175	-170	-167	-169	-172	-175	-178	-182	-177	-170	-152	-154	-134	-136	-146	-148	-150	-158	-164	-170	-171	-174	-167	-164	
	19	-197	-209	-217	-196	-203	-221	-220	-234	-220	-224	-200	-181	-177	-163	-160	-152	-149	-145	-157	-163	-173	-182	-192	-199	-189	
	20	-209	-210	-219	-220	-217	-219	-223	-222	-213	-197	-170	-156	-151	-137	-119	-138	-134	-134	-135	-143	-145	-144	-144	-143	-173	
	21	-144	-147	-147	-147	-151	-160	-169	-179	-174	-177	-173	-169	-158	-152	-149	-148	-159	-170	-177	-194	-199	-206	-211	-214	-170	
	22	-216	-218	-220	-224	-225	-227	-227	-227	-226	-221	-216	-211	-203	-196	-191	-190	-190	-195	-203	-225	-232	-232	-238	-240	-216	
	23	-241	-257	-270	-269	-262	-266	-278	-275	-272	-259	-232	-214	-205	-195	-183	-167	-167	-161	-170	-180	-177	-175	-177	-188	-218	
	24	-188	-197	-217	-218	-221	-223	-229	-236	-240	-215	-204	-194	-182	-166	-153	-147	-143	-147	-155	-165	-167	-175	-181	-186	-190	
	25	-194	-204	-202	-206	-209	-214	-229	-237	-232	-212	-186	-179	-159	-148	-130	-137	-137	-140	-145	-143	-159	-170	-174	-184	-180	
	26	-191	-195	-199	-199	-199	-199	-210	-212	-199	-182	-166	-148	-138	-121	-106	-89	-83	-87	-97	-105	-112	-117	-126	-132	-150	
	27	-139	-141	-148	-156	-164	-174	-174	-171	-175	-157	-147	-138	-117	-110	-96	-82	-75	-73	-75	-68	-63	-64	-69	-78	-119	
	28	-79	-80	-78	-83	-92	-94	-95	-101	-107	-91	-67	-34	-13	4	9	14	12	9	5	-8	-7	-7	-15	-20	-42	
MEAN		-152	-158	-160	-163	-164	-167	-172	-173	-173	-166	-154	-143	-134	-124	-117	-113	-113	-117	-124	-132	-136	-140	-142	-147	-145	
MOYENNE																											

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

HOUR ->	WIND																								DIR.	PEAK WIND SPEED	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	C	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	44	18:28	
A 0	4	7	7	7	9	11	19	19	22	28	26	32	30	33	33	35	30	33	35	35	37	32	26	S	37	00:02		
Y 2	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	37	00:02	
O 28	19	20	20	13	15	4	11	7	11	6	4	4	7	9	9	9	9	9	9	15	17	13	11	13	6	SSW	37	00:02
F 3	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	37	00:02	
M 6	4	11	7	6	4	6	0	2	0	0	4	0	13	15	13	17	19	19	20	24	20	19	22	19	22	SSW	37	00:02
O 4	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	37	09:25	
N 22	22	22	22	19	24	24	26	26	26	28	20	19	15	13	11	11	11	11	13	11	17	15	19	19	SSW	37	09:25	
T 15	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	41	07:15	
H 5	15	19	26	17	19	26	26	28	32	33	24	22	22	24	20	20	19	20	20	19	22	22	13	15	NNE	41	07:15	
6	E	ESE	E	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	NNE	41	07:15	
20	15	9	11	13	17	19	15	15	15	19	15	15	17	26	26	24	20	15	13	11	11	11	15	22	NNE	41	07:15	
7	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NNE	32	11:46	
20	15	19	9	17	17	20	19	19	19	17	22	22	28	24	24	22	22	20	17	9	6	4	4	4	NNE	32	11:46	
8	C	WNW	N	C	S	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	56	17:32	
0	2	2	0	6	6	15	15	15	17	19	26	32	33	39	35	37	43	46	35	35	35	35	32	32	S	56	17:32	
9	S	S	S	SSW	S	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	52	00:40	
32	35	30	26	26	20	17	13	30	30	35	39	28	28	30	30	28	22	28	30	19	20	20	20	20	S	52	00:40	
10	N	N	N	N	N	N	N	N	N	NNE	NE	NNE	N	N	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	N	33	00:40	
22	26	24	20	19	19	20	17	15	22	24	15	19	20	19	24	22	22	17	15	17	15	13	15	15	N	33	00:40	
11	NE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	33	00:40	
7	13	11	7	7	7	7	7	7	7	7	7	7	9	7	11	11	9	7	7	6	4	4	13	13	NNE	33	00:40	
12	SE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	33	00:40	
15	13	7	7	6	6	4	4	6	6	6	7	7	6	6	7	13	11	6	11	11	11	13	7	11	SSE	33	00:40	
13	WSW	W	W	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	33	00:40	
11	9	6	4	4	2	4	4	9	9	11	7	7	11	11	11	17	15	11	13	11	17	13	11	11	SSW	33	00:40	
14	WNW	WNW	WNW	C	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	33	00:40	
11	6	7	0	9	9	6	9	9	7	11	13	7	7	9	9	15	15	7	9	9	9	7	15	9	SSW	33	00:40	
15	WNW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	SSW	33	00:40	
7	11	13	13	13	17	17	17	15	17	15	17	13	11	9	7	7	6	7	6	4	4	0	0	13	SSW	33	00:40	
16	NE	NE	NNE	N	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	33	00:40	
13	9	9	9	4	6	15	13	7	9	11	11	11	11	19	19	17	13	7	7	9	11	9	13	15	SSW	33	00:40	

DAILY WEATHER SUMMARY FOR FEBRUARY, 1993 AT WINNIPEG, MANITOBA

1. Sunny. Temperatures well above normal. Winds light, increasing to moderate mid-morning.
2. Cloudy, becoming sunny late afternoon. Temperatures well above normal. Winds light.
3. Sunny. Temperatures well above normal. Winds light, increasing to moderate, early evening.
4. Sunny, becoming mainly cloudy by early evening. Temperatures well above normal. Winds moderate decreasing to light early afternoon.
5. Cloudy to overcast. Maximum temperature near normal, minimum well above normal. Winds moderate occasionally light.
6. Overcast, with light snow from mid-morning to early afternoon, and snow grains early evening. Maximum temperature above normal, minimum well above normal. Winds light, with a few periods of moderate in the afternoon.
7. Overcast with light snow, becoming sunny mid-afternoon. Temperatures slightly above normal. Wind light, except for a period of moderate from mid-morning to mid-afternoon.
8. Mainly cloudy. Maximum temperature above normal, minimum near normal. Winds light increasing to moderate near noon, with occasional gusts to strong late evening.
9. Overcast with light drizzle mid-morning, clearing late morning. Maximum temperature above normal, minimum slightly above normal. Winds moderate occasionally gusting to strong, decreasing to moderate mid-morning.
10. Sunny. Maximum temperature well below normal, minimum near normal. Winds light occasionally moderate, decreasing to light early evening.
11. Mainly sunny. Maximum temperature near normal, minimum below normal. Winds light.
12. Cloudy with light snow overnight, sunny through the day. Maximum temperature near normal, minimum above normal. Winds light.
13. Variable cloudiness, with light snow around mid-morning. Temperatures near normal. Winds light.
14. Light snow overnight, mainly sunny through the day. Maximum temperature below normal, minimum near normal. Winds light.
15. Sunny. Temperatures well below normal. Winds light.
16. Sunny. Temperatures well below normal. Winds light.
17. Mainly sunny. Temperatures well below normal. Winds light.
18. Mainly sunny. Maximum temperature below normal, minimum near normal. Winds light.
19. Sunny. Maximum temperature below normal, minimum slightly below normal. Winds light.
20. Variable cloudiness becoming overcast late afternoon. Temperatures slightly below normal. Winds light.
21. Light snow overnight, ending early morning, mainly sunny through the day. Maximum temperature below normal, minimum near normal. Winds light increasing to moderate mid-morning, decreasing to light late evening.
22. Overcast light snow, becoming sunny early afternoon. Maximum temperature well below normal, minimum below normal. Winds light.
23. Mainly sunny. Temperatures well below normal. Winds light.
24. Sunny. Temperatures below normal. Winds light increasing to moderate early afternoon, decreasing to light late evening.
25. Sunny. Temperatures below normal. Winds light.
26. Sunny. Temperatures near normal. Winds increasing to moderate by early morning.
27. Mainly cloudy. Temperatures near normal. Winds light to moderate, increasing to moderate near noon.
28. Sunny. Temperatures well above normal. Winds decreasing to light overnight, light through the day.