

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS DECEMBER
 AT/A WINNIPEG INT'L AIRPORT

19 93

LAT		049° 054' N		LONG		097° 017' W		ELEVATION ALTITUDE		240		METRES (ASL) MÉTRES (MMM)		STANDARD TIME USED HEURE NORMALE UTILISÉE		CENTRAL	
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 IRRADIATION 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		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	mm	mm	mm/h	dir	dir	dir	h	
1	-0.1	-5.3	-2.7	20.7			100	86			1.6	1.6	7	S	S	28	0.0
2	-5.3	-9.2	-7.3	25.3			93	86	TR		1.0	1.0	7	NNW	NNW	24	0.0
3	-5.4	-13.7	-9.6	27.6			100	85	TR		TR	TR	5	S	S	22	0.0
4	-2.2	-7.9	-5.1	23.1			100	92			TR	TR	5	S	S	39	0.5
5	-2.0	-12.5	-7.3	25.3			93	78			2.6	2.6	5	NNW	NNW	41	0.0
6	-7.6	-14.9	-11.3	29.3			92	67					5	W	WSW	22	7.5
7	-7.2	-14.2	-10.7	28.7			85	67					8	S	SW	32	6.6
8	-5.8	-15.2	-10.5	28.5			92	78			TR	TR	8	S	S	28	4.7
9	-11.2	-17.6	-14.4	32.4			92	78			TR	TR	8	N	N	30	0.0
10	-16.3	-24.1	-20.2	38.2			84	59					8	N	N	26	7.7
11	-6.6	-19.4	-13.0	31.0			86	60					7	S	S	52	4.6
12	-2.5	-6.6	-4.6	22.6			86	73					7	SE*	S	33	1.0
13	-3.2	-9.1	-6.2	24.2			92	80			TR	TR	7	NW	N	26	0.6
14	-5.0	-12.8	-8.9	26.9			100	85			TR	TR	7	NNE	NNE	20	0.0
15	0.2	-5.2	-2.5	20.5			93	80					7	ESE	E	15	0.0
16	-2.9	-8.3	-5.6	23.6			100	86					5	NNE	NNE	9	0.0
17	-0.8	-3.8	-2.3	20.3			100	80					5	N	N	24	0.0
18	-1.8	-6.1	-4.0	22.0			100	80			TR	TR	5	SSW	SSW	22	0.0
19	-2.7	-16.5	-9.6	27.6			93	78			0.6	0.6	5	NNW	NNW	35	0.0
20	-12.5	-22.0	-17.3	35.3			92	66			1.0	0.6	6	S	S	35	1.4
21	-9.7	-16.4	-13.1	31.1			92	79			3.0	2.2	7	NNW	NNW	41	0.0
22	-16.4	-25.1	-20.8	38.8			84	59			TR	TR	9	NW*	NNW	24	5.4
23	-17.0	-24.1	-20.6	38.6			77	64			TR	TR	9	NW	NW	19	4.3
24	-13.0	-25.5	-19.3	37.3			78	57			1.6	1.2	8	S	N	56	0.1
25	-25.2	-31.2	-28.2	46.2			68	43			TR	TR	8	NNW	NNW	28	4.7
26	-24.8	-32.6	-28.7	46.7			74	56			TR	TR	8	W	W	15	0.0
27	-21.8	-29.9	-25.9	43.9			63	43					8	W	W	20	7.5
28	-12.3	-24.3	-18.3	36.3			92	52			3.4	2.8	8	S	NW	54	0.0
29	-16.6	-23.6	-20.1	38.1			77	58					9	NW	NW	44	7.3
30	-4.3	-16.6	-10.5	28.5			100	71			0.4	0.4	9	SSW*	S	35	1.9
31	-5.4	-25.4	-15.4	33.4			93	63					9	NNE	NNE	33	0.9
MEAN MOYENNE	-8.6	-16.7	-12.7	TOTAL 952.0	TOTAL 0.0	TOTAL 0.0	89	71	TOTAL 0	TOTAL TR	TOTAL 15.2	TOTAL 13.0		17.9	PREVAILING DIRECTION DOMINANTE S	MAXIMALE N 56	TOTAL 66.7
NORMAL NORMALE	-9.9	-19.4	-14.6	1013.7	0.0	0.0			0	1.6	20.1	18.6		17.0	S		98.6

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	TOTALS									
								02 OR MORE - OU PLUS	18 OR MORE - OU PLUS	28 OR MORE - OU PLUS	38 OR MORE - OU PLUS	48 OR MORE - OU PLUS	58 OR MORE - OU PLUS	68 OR MORE - OU PLUS	78 OR MORE - OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	952.0	1070.7	1013.7	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	9	6	3	0	0	9	7	3	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	2431.4	2510.6	2320.7	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1519.7	1523.2	1800.3										

UDC 551 508 1 (

) Note/Aviz 1 Climatological Day/Jour de climatologie 00 01 C S.T. - 23 00 C S.T.

- Normal/Normale 1961-1990
- TR = Trace
- M = Missing/Manquant
- No entry/Pas de valeur = No occurrence/Pas d'événement
- * 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).
- C - Calm/Calm \$3.00 \$29.50 \$3.00 \$29.50
- Price single issue _____ annual (Jan. to Dec.) /Prix: numéro individuel _____ annuel (janv à déc.)



DRY BULB TEMPERATURE SUMMARY
 SUMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

DECEMBER 1993
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HEUR->	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
0	-27	-21	-15	-14	-11	-10	-15	-14	-14	-13	-7	-3	-3	-2	-3	-7	-10	-11	-12	-25	-27	-27	-40	-50	-16
A	-53	-60	-61	-60	-59	-60	-61	-64	-67	-68	-71	-69	-70	-71	-69	-70	-71	-71	-72	-79	-81	-84	-84	-87	-69
T	-92	-96	-104	-118	-134	-136	-134	-128	-121	-123	-115	-112	-98	-91	-84	-79	-76	-67	-62	-56	-54	-54	-55	-94	
E	-58	-63	-75	-69	-61	-67	-71	-76	-76	-73	-68	-66	-61	-48	-37	-28	-22	-24	-24	-28	-30	-27	-27	-50	
5	-31	-27	-22	-21	-23	-29	-29	-27	-24	-27	-27	-27	-23	-21	-21	-23	-39	-55	-65	-80	-82	-85	-105	-105	
6	-125	-127	-116	-105	-114	-119	-127	-134	-134	-141	-127	-111	-97	-89	-82	-78	-96	-108	-116	-123	-132	-149	-148	-118	
7	-142	-136	-106	-95	-96	-94	-97	-107	-120	-117	-103	-96	-84	-74	-73	-73	-80	-88	-97	-112	-124	-129	-126	-131	
8	-141	-147	-148	-150	-152	-150	-148	-141	-137	-135	-118	-107	-91	-82	-70	-60	-61	-69	-78	-97	-112	-113	-108	-108	
9	-112	-130	-145	-150	-153	-159	-170	-171	-172	-162	-160	-146	-130	-119	-116	-117	-121	-119	-118	-116	-127	-143	-153	-139	
10	-163	-172	-175	-189	-195	-195	-212	-220	-230	-235	-227	-212	-198	-191	-184	-175	-170	-171	-193	-199	-201	-200	-195	-196	
11	-194	-190	-190	-181	-171	-163	-153	-150	-151	-145	-131	-114	-109	-103	-96	-99	-100	-100	-97	-91	-87	-83	-79	-75	
12	-66	-57	-46	-41	-52	-53	-56	-53	-55	-59	-51	-46	-41	-38	-31	-27	-33	-30	-31	-41	-47	-47	-49	-53	
13	-57	-61	-71	-81	-82	-84	-89	-86	-85	-79	-75	-61	-54	-49	-43	-39	-35	-34	-36	-40	-44	-51	-55	-60	
14	-62	-88	-110	-126	-112	-106	-99	-125	-123	-119	-116	-106	-104	-86	-80	-71	-67	-62	-61	-64	-65	-64	-61	-56	
15	-52	-38	-34	-32	-29	-28	-26	-29	-29	-24	-20	-14	-7	-4	-1	1	0	-3	-3	-7	-10	-21	-24	-39	
16	-36	-68	-67	-65	-68	-76	-67	-64	-57	-68	-48	-35	-35	-35	-31	-29	-31	-32	-31	-30	-32	-37	-41	-39	
17	-31	-30	-28	-25	-30	-33	-36	-34	-32	-26	-21	-16	-13	-12	-11	-10	-9	-9	-8	-10	-17	-21	-24	-25	
18	-37	-34	-35	-39	-61	-51	-50	-56	-52	-55	-52	-40	-38	-36	-35	-32	-26	-24	-26	-25	-21	-19	-24	-26	
19	-27	-32	-41	-44	-47	-47	-47	-50	-51	-51	-47	-42	-36	-27	-29	-39	-40	-44	-88	-108	-119	-129	-137	-153	
20	-164	-174	-185	-192	-195	-199	-211	-213	-215	-216	-209	-192	-187	-178	-172	-166	-160	-156	-152	-144	-145	-139	-134	-129	
21	-125	-121	-117	-112	-108	-104	-101	-98	-98	-101	-105	-105	-103	-99	-110	-120	-128	-136	-142	-151	-155	-160	-160	-161	
22	-164	-171	-173	-188	-196	-198	-197	-199	-212	-245	-249	-239	-224	-207	-200	-192	-196	-196	-188	-182	-194	-189	-177	-180	
23	-183	-182	-183	-174	-182	-199	-210	-217	-229	-238	-239	-225	-217	-205	-202	-196	-195	-194	-201	-196	-199	-214	-216	-218	
24	-221	-230	-234	-224	-220	-213	-204	-195	-191	-179	-171	-160	-152	-144	-138	-142	-141	-146	-134	-185	-205	-219	-234	-246	
25	-255	-273	-280	-290	-289	-305	-309	-309	-295	-303	-294	-283	-272	-268	-260	-253	-261	-263	-266	-268	-275	-275	-288	-254	
26	-294	-309	-317	-322	-318	-320	-308	-315	-318	-320	-312	-301	-293	-277	-273	-267	-261	-250	-250	-261	-267	-268	-274	-277	
27	-269	-279	-272	-239	-278	-274	-282	-277	-285	-298	-287	-273	-258	-240	-239	-240	-243	-246	-233	-221	-226	-226	-231	-256	
28	-228	-234	-242	-241	-239	-235	-230	-227	-221	-211	-209	-206	-201	-185	-171	-158	-142	-125	-129	-141	-156	-168	-177	-188	
29	-194	-202	-205	-208	-210	-212	-212	-221	-229	-235	-228	-219	-212	-203	-197	-194	-200	-209	-215	-215	-217	-197	-181	-174	
30	-166	-166	-163	-153	-145	-130	-116	-94	-85	-86	-81	-76	-73	-67	-59	-49	-45	-58	-72	-83	-83	-88	-83	-85	
31	-84	-60	-54	-64	-71	-79	-88	-92	-103	-112	-126	-136	-142	-149	-151	-152	-160	-163	-177	-197	-211	-225	-235	-245	

MEAN -124 -128 -129 -129 -132 -134 -134 -135 -136 -137 -132 -123 -117 -109 -105 -103 -104 -106 -110 -116 -120 -123 -126 -128 -123

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

DAILY WEATHER SUMMARY FOR DECEMBER, 1993 AT WINNIPEG, MANITOBA

1. Overcast with snow beginning mid-afternoon. Maximum temperature above normal, minimum well above normal. Winds light to moderate.
2. Overcast with snow ending overnight. Freezing drizzle and snow beginning again mid-afternoon. Maximum temperature near normal, minimum above normal. Winds light.
3. Mainly cloudy with freezing drizzle and snow ending overnight. Snow beginning again early evening. Temperatures near normal. Winds light increasing to moderate early evening.
4. Mainly cloudy with snow ending overnight. Maximum temperature above normal, minimum well above normal. Winds moderate.
5. Overcast with early afternoon flurries, then clearing late evening. Temperatures above normal. Winds moderate decreasing to light late evening.
6. Variable cloudiness. Temperatures near normal. Winds light.
7. Variable cloudiness. Temperatures near normal. Winds light to moderate.
8. Variable cloudiness with early morning ice crystals. Temperatures slightly above normal. Winds moderate decreasing to light mid-afternoon.
9. Variable cloudiness with afternoon ice crystals. Maximum temperature slightly below normal, minimum near normal. Winds light increasing to moderate early evening.
10. Mainly sunny. Temperatures well below normal. Winds light.
11. Variable cloudiness. Maximum temperature slightly above normal, minimum slightly below normal. Winds moderate increasing to strong early morning then decreasing to moderate early evening.
12. Mainly cloudy. Temperatures well above normal. Winds moderate decreasing to light overnight.
13. Mainly cloudy with early evening flurries. Maximum temperature above normal, minimum well above normal. Winds light to moderate.
14. Mainly cloudy with early afternoon snow grains. Temperatures above normal. Winds light.
15. Mainly cloudy. Temperatures well above normal. Winds light.
16. Mainly cloudy. Temperatures well above normal. Winds light.
17. Mainly cloudy. Temperatures well above normal. Winds light.
18. Overcast with early morning flurries. Temperatures well above normal. Winds light.
19. Mainly cloudy with flurries. Maximum temperature well above normal, minimum slightly above normal. Winds light increasing to moderate late evening.
20. Variable cloudiness with snow beginning mid-evening. Temperatures slightly below normal. Winds light to moderate.
21. Mainly cloudy with snow and blowing snow. Maximum temperature near normal, minimum slightly above normal. Winds light to moderate increasing to strong late afternoon.
22. Mainly cloudy with snow beginning late evening. Temperatures below normal. Winds light.
23. Variable cloudiness with flurries. Temperatures below normal. Winds light.
24. Variable cloudiness with snow and blowing snow. Maximum temperature slightly below normal, minimum below normal. Winds light increasing to strong early evening.
25. Variable cloudiness with late evening ice crystals. Temperatures well below normal. Winds light.
26. Variable cloudiness with early morning ice crystals. Temperatures well below normal. Winds light.
27. Variable cloudiness. Temperatures well below normal. Winds light.
28. Mainly cloudy with snow and blowing snow. Maximum temperature near normal, minimum slightly below normal. Winds moderate to strong.
29. Variable cloudiness with blowing snow ending overnight. Maximum temperature below normal, minimum slightly below normal. Winds light to moderate.
30. Variable cloudiness with flurries. Maximum temperature well above normal, minimum above normal. Winds moderate decreasing to light early morning.
31. Overcast becoming clear early evening. Maximum temperature well above normal, minimum slightly below normal. Winds light to moderate.