

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH MOIS NOVEMBER
 AT/A WINNIPEG INT'L AIRPORT

19 93

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		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT		BRIGHT SUNSHINE ILLUMINATION 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	km/h	dir	km/h	HOURS HEURES			
1	6.8	0.3	3.6	14.4			100	51			0.4	0.4	TR	25.9	S	S 37	3.4	
2	3.1	-0.5	1.3	16.7			93	65			0.2	0.2	TR	19.2	W	W 28	1.0	
3	1.1	-2.5	-0.7	18.7			100	69			TR	TR		14.2	NE*	ENE 32	0.0	
4	-1.4	-6.2	-3.8	21.8			93	63	0.2		TR	0.2		30.5	NNE	NNE 41	0.0	
5	-4.2	-9.0	-6.6	24.6			93	53			0.2	0.2	TR	18.9	NNW	NNW 30	1.5	
6	-1.7	-13.7	-7.7	25.7			93	59			TR	TR	TR	18.4	SSW	SSW 33	7.3	
7	-3.2	-8.9	-6.1	24.1			93	54			TR	TR		19.2	N	N 33	4.8	
8	-3.6	-12.3	-8.0	26.0			100	79			2.6	2.2		11.8	SW	S 22	0.0	
9	-3.9	-14.4	-9.2	27.2			93	74			2.0	1.6	2	7.2	W	NNW 15	0.0	
10	-0.3	-14.4	-7.4	25.4			93	78			0.2	0.2	3	17.6	S	S 28	0.0	
11	1.6	-2.7	-0.6	18.6			86	64					3	14.6	S	S 28	5.3	
12	2.7	-4.2	-0.8	18.8			86	60					1	27.4	S	S 37	7.5	
13	1.3	-9.7	-4.2	22.2			100	69					1	10.2	N	NNW 22	0.0	
14	2.3	-6.8	-2.3	20.3			93	69			TR	TR	TR	12.8	WSW	WSW 22	0.0	
15	4.9	-7.2	-1.2	19.2			86	56					TR	23.9	S	S 32	4.0	
16	8.5	-3.5	2.5	15.5			86	53			TR	TR	TR	24.0	S	WNW 43	3.0	
17	3.8	-8.8	-2.5	20.5			93	65						17.2	S	S 30	4.0	
18	3.6	-2.8	0.4	17.6			100	70						12.2	S	WNW 44	1.7	
19	-2.2	-9.8	-6.0	24.0			79	53			TR	TR		27.9	NW	WNW 48	6.4	
20	5.7	-8.1	-1.2	19.2			79	56			TR	TR		20.5	SSE*	W 28	0.3	
21	5.8	-15.3	-4.8	22.8			80	51			TR	TR		28.5	N	N 41	0.0	
22	-14.4	-18.3	-16.4	34.4			84	50			TR	TR	TR	24.2	NNE	NE 30	0.5	
23	-12.4	-21.6	-17.0	35.0			65	39					TR	21.5	NNE	NNE 30	6.0	
24	-7.3	-21.2	-14.3	32.3			78	31						9.0	N	WNW 15	6.5	
25	-4.2	-12.2	-8.2	26.2			93	38			2.8	2.2		14.3	NE	NE 26	0.0	
26	-2.6	-5.7	-4.2	22.2			100	80			10.4	9.4	3	16.5	NNE	N 26	0.5	
27	-4.3	-10.7	-7.5	25.5			100	85			3.6	3.6	14	15.8	S	S 32	0.0	
28	-4.6	-16.8	-10.7	28.7			92	78			TR	TR	13	21.5	S	S 30	2.4	
29	-11.4	-19.9	-15.7	33.7			85	70			TR	TR	10	17.3	S	S 44	8.3	
30	-1.8	-12.4	-7.1	25.1			93	85					9	40.7	S	S 50	0.0	
31																		
MEAN MOYENNE	-1.1	-10.0	-5.6	706.4	0.0	0.0	90	62	0	0.2	22.4	20.2		19.4	S	S 50	74.4	
NORMAL NORMALE	-0.4	-9.2	-4.7	683.3	4.3	0.0			0	5.3	19.0	21.2		18.0	S		94.9	

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS

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					TOTALS				
								02 OR MORE	18 OR MORE	28 OR MORE	38 OR MORE	48 OR MORE	10 OR MORE	20 OR MORE	30 OR MORE	40 OR MORE	50 OR MORE
TOTAL FOR MONTH TOTAL DU MOIS	706.4	681.7	683.3	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	4.3	10	5	4	0	0	9	5	5	1	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	1479.4	1439.9	1307.0	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	1519.7	1523.2	1800.3										

UDC 561.508.1 (

Note/Avs 1 Climatological Day/Jourée climatologique 00 01 C S T - 23 00 C S T

- Climatological Day/Jourée climatologique
- 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
- Price single issue : annual (Jan to Dec.) /Prix: numéro individuel : annuel (Jan à Dec.)



DRY BULB TEMPERATURE SUMMARY
 SOMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

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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	12	14	13	19	19	16	15	13	9	10	16	30	53	60	60	62	64	59	55	51	46	44	28	33
A	2	4	3	7	6	7	0	-1	0	2	5	8	11	27	28	26	22	21	19	16	20	19	1	-3	10
T	3	5	-21	-18	-13	-11	-18	-16	-17	-14	-8	-3	0	6	10	10	9	0	0	-6	-9	-16	-18	-20	-7
E	4	-22	-23	-22	-19	-14	-18	-25	-27	-29	-29	-28	-25	-22	-26	-31	-31	-36	-37	-40	-43	-47	-51	-55	-59
	5	-62	-64	-65	-66	-68	-69	-69	-69	-67	-64	-58	-53	-51	-46	-46	-45	-47	-66	-70	-83	-80	-86	-69	-64
	6	-72	-79	-101	-115	-121	-122	-120	-127	-133	-110	-83	-57	-36	-29	-24	-18	-23	-33	-37	-46	-48	-53	-51	-55
	7	-63	-56	-65	-62	-50	-43	-45	-55	-64	-57	-45	-42	-41	-42	-48	-54	-61	-63	-67	-73	-79	-76	-79	
	8	-87	-80	-78	-79	-78	-78	-76	-75	-73	-67	-55	-45	-41	-39	-39	-40	-44	-59	-91	-72	-101	-119	-68	
	9	-123	-134	-135	-128	-141	-125	-101	-94	-92	-82	-64	-53	-49	-41	-48	-43	-45	-65	-61	-87	-88	-97	-114	-125
	10	-128	-136	-134	-129	-119	-119	-114	-100	-87	-68	-55	-48	-40	-32	-29	-24	-21	-21	-18	-14	-13	-9	-6	-4
	11	-7	-8	-7	-9	-9	-13	-14	-19	-22	-25	-21	0	-4	10	13	13	10	1	-9	-9	-11	-14	-17	-20
	12	-17	-21	-25	-34	-32	-32	-38	-41	-40	-34	-22	0	9	21	26	27	14	0	-7	-14	-21	-27	-32	-34
	13	-41	-64	-85	-88	-74	-90	-56	-40	-34	-26	-12	-3	4	8	6	1	-3	-9	-12	-12	-14	-19	-22	-24
	14	-29	-25	-37	-50	-68	-53	-59	-54	-43	-33	-23	-11	3	15	20	22	19	11	8	-8	-27	-43	-50	-56
	15	-61	-65	-68	-66	-54	-43	-39	-40	-28	-25	-3	17	44	39	44	40	44	30	22	22	15	8	3	1
	16	0	-8	-13	-14	-14	-10	-12	-17	-15	-10	2	31	69	80	57	16	15	17	0	-21	-34	-23	-22	-22
	17	-21	-30	-33	-46	-65	-73	-82	-87	-82	-65	-30	-8	7	17	34	32	29	23	19	7	4	3	-3	-13
	18	-17	-20	-21	-19	-15	-19	-24	-20	-21	-15	-4	8	15	20	20	33	26	12	14	28	5	3	-4	-19
	19	-23	-33	-47	-38	-45	-61	-58	-64	-68	-80	-77	-75	-69	-72	-68	-73	-76	-81	-82	-97	-87	-90	-85	-82
	20	-80	-79	-78	-80	-79	-76	-72	-62	-55	-52	-43	-28	-12	2	19	26	33	37	31	29	33	37	56	51
	21	57	55	40	39	35	31	18	11	13	-23	-47	-72	-81	-97	-104	-117	-122	-131	-148	-151	-152	-151	-149	-150
	22	-151	-161	-168	-170	-173	-164	-171	-169	-174	-172	-166	-160	-154	-151	-148	-148	-152	-149	-146	-145	-146	-148	-149	-149
	23	-149	-152	-158	-163	-167	-167	-161	-165	-165	-163	-148	-141	-131	-126	-128	-134	-148	-155	-190	-181	-187	-197	-211	-161
	24	-209	-195	-195	-200	-195	-187	-189	-191	-178	-167	-140	-120	-107	-90	-79	-76	-78	-120	-122	-142	-126	-103	-111	-120
	25	-122	-118	-109	-104	-108	-108	-106	-108	-102	-92	-83	-72	-58	-48	-48	-45	-51	-57	-54	-53	-60	-63	-58	-56
	26	-56	-54	-55	-56	-56	-55	-53	-51	-51	-50	-47	-44	-36	-31	-30	-30	-34	-41	-41	-41	-41	-43	-45	-50
	27	-52	-51	-51	-50	-50	-76	-70	-62	-75	-63	-44	-54	-50	-50	-47	-51	-88	-100	-105	-105	-106	-105	-103	-100
	28	-101	-100	-101	-101	-102	-105	-109	-112	-114	-127	-108	-100	-89	-49	-48	-47	-58	-81	-90	-94	-108	-131	-138	-143
	29	-168	-156	-167	-166	-176	-177	-186	-187	-189	-199	-173	-134	-132	-124	-124	-117	-118	-121	-116	-122	-124	-123	-121	-121
	30	-122	-121	-111	-95	-91	-83	-77	-75	-68	-63	-58	-54	-51	-46	-42	-40	-40	-36	-29	-24	-20	-18	-22	-30
MEAN	-64	-66	-70	-70	-70	-71	-71	-70	-69	-66	-55	-44	-35	-28	-26	-27	-31	-40	-43	-50	-52	-54	-58	-62	-54
MOYENNE																									

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

WIND SUMMARY
SUMMAIRE DES VENTS

WINNIPEG INT'L AIRPORT

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HOUR ->	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	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	SW	54	07:04	
A	30	26	24	28	28	22	33	35	35	37	28	26	20	22	19	19	19	24	22	22	26	20	22	22			
Y																											
O	W	W	W	W	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	W	WNW	43	04:12	
F	15	15	26	24	28	22	24	26	24	26	22	24	28	26	24	17	11	13	4	13	11	6	7	7			
M	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			
N	11	9	7	6	4	9	4	0	0	6	11	9	13	13	15	17	28	22	22	26	32	26	24	26	37	21:07	
O	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			
N	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	56	07:21	
T	24	24	22	28	32	32	41	41	37	41	37	39	33	37	33	37	32	30	26	22	22	26	13	22			
H																											
5	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	33	01:35	
6	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	44	15:25	
7	9	13	9	6	13	13	15	15	7	15	13	17	17	28	28	30	33	32	28	22	22	24	22	13	13		
8	SW	W	WNW	NW	NNW	NNW	NW	NNW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	46	11:17	
9	0	6	11	9	9	13	17	22	15	15	17	20	22	20	17	15	13	9	15	6	0	0	7	6			
10	W	W	W	C	C	C	SSW	C	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			
11	SW	SW	S	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	39	13:15	
12	11	15	15	19	19	22	20	22	22	22	26	28	24	19	24	19	17	9	9	11	9	13	15	13			
13	W	WNW	WNW	WNW	WNW	W	C	WSW	C	W	WSW	SW	S	S	S	S	S	S	S	S	S	S	S	S	52	10:45	
14	11	9	11	13	9	7	0	7	0	7	4	4	13	17	19	24	22	20	19	24	28	28	26	28			
15	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
16	26	33	26	28	33	28	28	30	26	35	33	35	37	33	37	33	33	28	22	24	17	11	13	9			
17	S	C	N	NNE	NNE	N	N	NNE	NNE	N	NNW	NNW	N	NNW	N	N	N	N	N	N	N	N	N	N			
18	7	0	7	7	6	7	9	13	6	4	13	15	13	22	22	17	22	20	9	7	6	7	0	6			
19	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			
20	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W			
21	4	4	4	0	7	9	11	11	11	11	17	19	17	19	15	15	15	22	13	19	17	15	15	13			
22	WSW	SSW	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	41	04:49	
23	15	19	15	20	26	32	28	28	30	26	28	28	26	32	26	28	17	28	22	20	22	20	22	20	24		
24	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
25	19	20	20	20	20	19	22	26	26	26	26	26	24	33	33	43	33	33	33	33	33	19	15	15	61	15:04	

DAILY WEATHER SUMMARY FOR NOVEMBER, 1993 AT WINNIPEG, MANITOBA

1. Mainly cloudy, snow beginning late evening. Maximum temperature near normal, minimum above normal. Winds moderate.
2. Snow ending overnight, cloudy to overcast through the day. Maximum temperature near normal, minimum temperature slightly above normal. Winds moderate decreasing to light by mid-afternoon.
3. Cloudy to overcast with flurries in the evening. Maximum temperature below normal, minimum near normal. Winds light increasing to moderate by late afternoon.
4. Overcast with freezing drizzle in the early morning and flurries beginning mid-morning. Maximum temperature below normal, minimum near normal. Winds increasing to moderate with strong gusts overnight, decreasing to moderate by early evening.
5. Mainly cloudy with scattered flurries. Maximum temperature well below normal, minimum below normal. Winds moderate decreasing to light by mid-afternoon.
6. Mixture of sun and cloud. Maximum temperature below normal, minimum near normal. Winds light, increasing to moderate with strong gusts near noon, decreasing to light late evening.
7. Cloudy becoming overcast with flurries mid-afternoon. Maximum temperature below normal, minimum slightly below normal. Winds increasing to moderate overnight, decreasing to light late afternoon.
8. Overcast with snow showers. Snow ending late evening. Maximum temperature below normal, minimum well below normal. Winds light.
9. Cloudy to overcast with snow beginning near noon, ending mid-afternoon. Maximum temperature below normal, minimum well below normal. Winds light.
10. Overcast with snow early morning, and flurries late afternoon. Maximum temperature near normal, minimum well below normal. Winds light to moderate, decreasing to light mid-afternoon.
11. Cloudy. Maximum temperature near normal, minimum above normal. Winds light, increasing to moderate early evening.
12. Sunny. Maximum temperature near normal, minimum slightly below normal. Winds moderate increasing to moderate with strong gusts by late morning, decreasing to light early evening.
13. Cloudy to overcast. Temperatures near normal. Winds light.
14. Cloudy. Maximum temperature slightly above normal, minimum near normal. Winds light.
15. Mainly cloudy. Maximum temperature above normal, minimum near normal. Winds increasing to moderate overnight.
16. Mixture of sun and cloud, flurries mid-morning and mid-afternoon. Maximum temperature well above normal, minimum above normal. Winds moderate decreasing to light early evening.
17. Mixture of sun and cloud. Maximum temperatures above normal, minimum temperatures near normal. Winds light increasing to moderate by late morning and decreasing to light by early evening.
18. Cloudy with afternoon sunny periods. Temperatures above normal. Winds light increasing to moderate by early evening.
19. Cloudy with light snow overnight and afternoon sunny periods. Temperatures near normal. Moderate winds becoming strong with gale force winds overnight decreasing to light by late afternoon.
20. Cloudy with light snow overnight. Maximum temperatures well above normal, minimum temperatures slightly above normal. Winds increasing to moderate overnight and decreasing to light by early afternoon. and increasing to moderate by early evening.
21. Cloudy with occasional snow by late morning. Maximum temperatures well above normal, minimum temperatures below normal. Moderate winds with strong gusts by early morning.
22. Clearing overnight becoming cloudy by late morning. Temperatures well below normal. Winds moderate.
23. Clearing overnight. Temperatures well below normal. Moderate winds decreasing to light by late afternoon.
24. Clear becoming cloudy by early evening. Maximum temperature slightly below normal, minimum temperature well below normal. Winds light.
25. Cloudy becoming overcast with snow by early evening. Temperatures near normal. Winds light increasing to moderate mid-morning, decreasing to light early evening.
26. Overcast with snow. Maximum temperature near normal, minimum well above normal. Winds light, increasing to moderate mid-afternoon.
27. Overcast with occasional snow through the day. Maximum temperature near normal, minimum slightly above normal. Winds decreasing to light overnight, increasing to moderate mid-afternoon.
28. Variable cloudiness becoming sunny mid-afternoon. Maximum temperature near normal, minimum slightly below normal. Winds light to moderate.
29. Sunny. Temperatures below normal. Winds light increasing to moderate mid-afternoon, becoming strong and gusty late evening.
30. Overcast with blowing snow, becoming drifting snow mid-afternoon. Maximum temperature above normal, minimum near normal. Winds strong and gusting, decreasing to moderate late mid-evening.