



# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JANUARY/ JANVIER

19 84

AT/A Wpg. International Airport / A L'Aéroport Intern. de Wpg.

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: 239.6 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 HEURES					
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm		AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h						
1	-9.1	-17.1	-13.1	31.1		98	72														
2	1.4	-16.8	-7.7	25.7		98	78		TR.	TR.	TR.	4	9.9	S	SSW17*	4.5					
3	3.3	-6.2	-1.5	19.5		91	75					4	18.4	S	S 26	3.3					
4	-3.6	-13.2	-8.4	26.4		93	76		TR.			4	20.3	W	W 28	6.2					
5	4.3	-7.5	-1.6	19.6		96	75			26.	26.	3	20.3	SSE	SSE33*	0.0					
										2.	2.	3	19.9	W	NW 33	3.1					
6	-1.8	-9.4	-5.6	23.6		96	83					3	7.1	CALM	S 13*	0.0					
7	-5.2	-24.9	-15.1	33.1		97	55					3	16.5	NNW	NNW28	2.8					
8	-9.3	-24.9	-17.1	35.1		92	61			2.	TR.	2	13.5	S	S 24	0.8					
9	-9.4	-27.5	-18.5	36.5		85	51			TR.	TR.	2	18.8	NW	NW 33	6.4					
10	-20.5	-30.2	-25.4	43.4		76	57			TR.	TR.	2	7.6	S	S 15*	6.3					
11	-21.5	-30.9	-26.2	44.2		70	54					2	10.4	NE	NE 15*	2.3					
12	-18.6	-30.5	-24.6	42.6		67	51					2	9.4	NNE	ENE17	7.5					
13	-15.3	-20.7	-18.0	36.0		77	61			4.	4.	2	18.1	NNE	NNE28*	0.0					
14	-17.8	-27.9	-22.9	40.9		74	58			TR.	TR.	2	12.4	NNE	S 20*	7.3					
15	-10.0	-21.0	-15.5	33.5		90	57			16.	14.	2	23.6	SSW	SSW33	0.3					
16	-15.6	-27.7	-21.7	39.7		77	63					4	16.9	NW	NW 24*	7.5					
17	-24.0	-29.9	-27.0	45.0		70	53			TR.	TR.	4	11.8	WNW	WNW17*	6.2					
18	-24.1	-30.9	-27.5	45.5		71	55			2.	TR.	4	10.1	W	W 15*	6.1					
19	-25.2	-33.0	-29.1	47.1		73	53			2.	2.	4	18.1	NW	NW 26*	6.4					
20	-19.6	-33.1	-26.4	44.4		72	53			2.	2.	4	20.0	S	S 33*	5.0					
21	-15.2	-24.0	-19.6	37.6		75	60					4	11.3	SW	S 26	7.8					
22	-8.4	-23.7	-16.1	34.1		95	67			16.	8.	4	12.2	S	S 28*	4.4					
23	-5.5	-13.5	-9.5	27.5		94	80			TR.	TR.	6	26.1	S	S 43	7.2					
24	0.4	-18.3	-9.0	27.0		95	47			8.	16.	7	21.0	WNW	NW 35	6.5					
25	-13.9	-22.0	-18.0	36.0		65	52					6	10.6	WNW	WNW17*	5.3					
26	-9.4	-25.2	-17.3	35.3		89	53		TR.	12.	12.	6	22.5	WNW	NW 43	4.1					
27	-10.3	-25.3	-17.8	35.8		94	66			40.	30.	7	23.9	SSE	SSE43	0.0					
28	-10.8	-19.8	-15.3	33.3		92	71			4.	TR.	7	18.5	NW	NW 35*	1.9					
29	-11.8	-21.2	-16.5	34.5		91	66			22.	14.	7	13.6	N	NNW19*	0.0					
30	-8.4	-24.0	-16.2	34.2		95	73			2.	2.	9	17.0	S	S 33	0.4					
31	-1.4	-15.8	-8.6	26.6		95	77														
MEAN MOYENNE	-10.9	-22.5	-16.7	1074.8	0.0	85	63	0	TR.	16.2	12.2		16.0	PREVAILING DOMINANTE S	MAXIMUM SSE43	TOTAL 125.6					
NORMAL NORMALE	-14.3	-24.2	-19.3	1154.7	0.0	88	69	0	0.2	23.7	21.3	28	18.6	S	57	121.2					
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS												DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE: cm				
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	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 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	50.0 OR MORE OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS		1074.8	942.1	1154.7	TOTAL FOR MONTH TOTAL DU MOIS		0.0	0.0	0.0												
ACCUMULATED SINCE JULY 1 DEPUIS LE 1 <sup>ER</sup> JUILLET		3441.4	3159.9	3434.6	ACCUMULATED SINCE APRIL 1 DEPUIS LE 1 <sup>ER</sup> AVRIL		1906.2	1706.4	1483.3	12	5	2			16	6	3				

UDC 551.506.1 (

\* ) INDICATES MORE THAN ONE OCCURRENCE OF THE SPEED BUT NOT NECESSARILY THE DIRECTION. ! ACTUAL SPEED IS 50 KMH GREATER THAN INDICATED.

Subscription Price: \$1.11 monthly / \$11.18 per calendar year (January to December)  
 Prix d'abonnement: mensuel \$1.11 / annuel \$11.18 (janvier à décembre)



This month was relatively warm with below normal snowfall. The mean of  $-16.7^{\circ}\text{C}$  was almost three degrees above normal while the snowfall was 7.5 cm below the normal. Sunshine was slightly above normal with a total of 125.6 hours while the average winds were below normal.

## DAILY WEATHER SUMMARY FOR JANUARY 1984

AT WINNIPEG, MANITOBA

1. Above normal temperatures. Partly cloudy. Snow 9:48 AM to 1:09 PM. Ice crystals 1:09 PM to 3:38 PM. Light winds.
2. Above normal temperatures. Partly cloudy. Rain 1:00 PM to 11:21 PM. Mostly light winds but S gust to 43 Km/h in afternoon. Drifting snow.
3. Mild. Record high max. temperatures equals record set in 1880. Light plane missing from Fort Francis to Winnipeg. No success in search due to plane being white against white snow. Sunny becoming cloudy late afternoon. Moderate West winds with NNE gust to 46 Km/h late evening.
4. Numerous water main breaks especially downtown. Still mild. Cloudy. Freezing drizzle 00:22 AM to 2:17 AM. Snow or flurries 5:51 PM to 9:50 PM. Freezing rain 6:57 PM to 7:37 PM. Freezing drizzle 9:00 PM to 9:15 PM. Moderate winds with SSE gust to 45 Km/h in evening. Visibility restricted in evening.
5. Mild, record breaking high temperatures. Partly cloudy. Snow 10:05 PM continued. Moderate winds with W gust to 44 Km/h in morning. Visibility restricted in snow.
6. Mild. Cloudy. Snow to 01:10 AM, 5:25 AM to 7:50 AM. Light winds. Lost flyer not found yet. Fog patches in afternoon.
7. Above normal temperatures. A few sunny periods mid morning. Heavy fog 2:26 AM to 2:37 AM. Light fog till 5:43 AM. Snow 4:53 AM to 6:21 AM, 11:48 AM to 3:08 PM. Mostly light winds with NNW gust to 35 Km/h in morning.
8. Almost normal temperatures. Cloudy. Snow 8:31 PM to 10:25 PM. Mostly light winds but S gust to 35 Km/h early evening.
9. Slightly below normal temperatures. Mostly sunny. Snow 00:50 AM to 4:51 AM. Ice crystals 12:15 PM to 3:49 PM. Mostly light winds but NNW gust to 37 Km/h in afternoon. Light drifting snow late morning and afternoon.
10. Cold. Mostly sunny. Ice crystals 6:14 PM continued. Light winds, smoke over city in afternoon.
11. Cold. Partly cloudy. Ice crystals to 1:40 PM. Light winds. Smoke over city in morning.
12. Cold. Mostly sunny. Light winds.
13. Slightly above normal temperatures. Cloudy, snow 8:36 AM to 4:28 PM. Mostly light winds but NNE gust to 37 Km/h in evening. Visibility slightly restricted in snow.
14. Below normal temperatures. Sunny. Ice crystals 10:21 AM to 6:17 PM. Smoke over city morning and early afternoon. Light winds.
15. Above normal temperatures. Cloudy. Snow 12:20 PM to 8:00 PM. Ice crystals 8:00 PM to 8:16 PM. Snow 8:16 PM to 9:12 PM. Ice crystals 9:12 PM to 11:13 PM. Snow 10:38 PM to 10:53 PM. Ice crystals 10:49 PM continued. Blowing snow 12:50 PM to 2:50 PM. Visibility restricted afternoon and evening. Drifting snow. Moderate winds with S gust to 51 Km/h late morning.
16. Below normal temperatures. Mostly sunny. Ice crystals to 3:12 AM. Snow 6:10 PM to 7:40 PM. Light winds.
17. Cold. Mostly sunny. Ice crystals 2:56 AM to 2:47 PM. Visibility restricted in morning. Light winds.
18. Cold. Mostly sunny. Ice crystals 3:13 PM continued. Light winds. Visibility restricted afternoon and evening.
19. Very cold. Mostly sunny. Ice crystals to 9:28 AM. Snow 00:21 AM to 6:46 AM. Ice crystals 3:25 PM to 4:57 PM. Drifting snow and mostly light winds but NW gust to 33 Km/h in morning. Search for Neil East pilot missing, Fort Francis to Wpg. called off after 800 flying hours produced no results.
20. Cold. Partly cloudy. Snow 10:18 PM continues. Blowing snow 8:20 PM continues. Drifting snow. Moderate winds with S gust to 56 Km/h in evening. Visibility restricted in evening.
21. Near normal temperatures. Mostly sunny. Snow to 01:00 AM. Blowing snow to 00:10 AM. Ice crystals 01:00 AM to 02:30 AM. Light fog in morning. Visibility restricted. Mostly light winds but S gust to 31 Km/h in morning.
22. Above normal temperatures. Cloudy clearing early afternoon. Snow 7:16 AM to 12:22 PM. Blowing snow 11:07 AM to 11:31 AM. Mostly light wind but S gust to 43 Km/h in morning. Visibility severely restricted in morning. Drifting snow.
23. Sunny skies, strong south winds, above normal temperatures and blowing snow 2:35 AM, to 3:22 AM; 3:37 AM to 3:49 AM; 4:15 AM to 2:18 PM. Air Canada DC-9 emergency landing due to engine trouble.
24. Continuing mild, cloudy skies, light winds. Snow 4:11 AM to 6:50 AM, 7:07 AM to 7:25 AM.
25. Partly cloudy skies, temperatures returning to normal values, very light winds.
26. Cloudy skies, light winds becoming gusty afternoon. Snow and blowing snow. Snow 5:40 AM to 12:55 PM. Blowing snow 10:46 AM-3:33 PM. Air Canada flight returns to Winnipeg due to minor fire in cockpit.
27. Cloudy, normal temperatures and strong gusty south winds. Snow and blowing snow during the day. Snow 8:50 AM and continued after midnight. Blowing snow 10:25 AM to 9:07 PM.
28. Cloudy all day, clearing during the evening, temperatures hovering near normal values under brisk northwest winds. Snow ending at 3:04 AM starting again at 9:27 AM to 4:21 PM.
29. Cloudy with snow and normal temperatures, light winds. Snow 3:50 AM to 3:52 PM; 6:51 PM to 7:15 PM.
30. Clear overnight, becoming cloudy during the day. Brisk southerly winds. Snow 10:33 AM-6:37 PM. Blowing snow 4:40 PM-6:15 PM.
31. A few clouds with temperatures rising rapidly to well above normal under the light southerly flow. Some early morning fog patches during rush hour.

LOCAL STANDARD TIME

ALL TEMPERATURES IN DEGREES CELSIUS

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.	-17.0	-16.5	-16.0	-15.2	-14.1	-13.8	-13.7	-14.3	-14.8	-14.9	-13.8	-11.7	-11.0	-11.6	-10.8	-10.8	-11.2	-12.0	-12.4	-14.1	-14.0	-14.8	-16.9	-16.1
2.	-17.0	-16.8	-15.9	-15.7	-15.0	-14.6	-12.8	-10.9	-11.0	-10.4	-9.3	-9.8	-9.8	-8.5	-7.3	-6.6	-6.2	-5.8	-5.4	-5.2	-5.2	-4.7	-3.5	-2.1
3.	-1.8	-7	-5	-4	-1.0	0.0	.4	-1	-8	-1.1	-1.6	-1.2	-1.0	-9	-9	-1.1	-1.3	-1.4	-1.9	-2.2	-2.1	-1.7	-1.8	-6.2
4.	-7.6	-11.0	-12.0	-12.5	-13.3	-13.8	-14.3	-15.7	-15.4	-15.7	-15.8	-14.8	-14.8	-13.8	-13.6	-12.8	-12.0	-11.3	-10.5	-7.9	-7.3	-6.1	-5.8	-5.1
5.	-4.5	-4.3	-4.1	-3.2	-2.7	.5	0.0	-2.2	-2.8	-4	-2.2	.1	-4.6	-1.4	-3.3	-3.0	-2.7	-6.1	-6.0	-7.0	-7.5	-8.0	-8.0	-8.5
6.	-9.0	-9.5	-9.7	-10.7	-11.3	-11.7	-11.2	-10.7	-10.0	-10.6	-10.3	-9.4	-7.6	-6.2	-5.5	-5.1	-4.3	-3.9	-3.9	-2.7	-3.5	-3.5	-3.8	-4.8
7.	-6.1	-6.4	-7.3	-9.7	-8.3	-6.9	-6.3	-8.2	-11.3	-12.7	-13.3	-13.3	-13.4	-13.2	-12.7	-13.3	-15.3	-15.7	-17.3	-18.0	-23.6	-24.7	-26.8	-27.2
8.	-29.3	-27.3	-25.7	-25.5	-25.1	-24.8	-25.9	-24.7	-24.6	-25.0	-24.5	-24.2	-23.7	-22.4	-21.2	-20.2	-19.8	-20.0	-19.7	-18.5	-17.5	-13.6	-12.9	-12.2
9.	-11.5	-13.2	-13.7	-14.1	-14.3	-16.5	-17.7	-19.0	-19.6	-24.0	-23.8	-23.8	-24.3	-24.6	-26.1	-27.6	-28.4	-29.6	-30.2	-30.5	-31.2	-31.8	-31.5	-31.2
10.	-32.2	-32.3	-33.0	-31.6	-31.6	-31.8	-32.1	-33.6	-32.3	-31.7	-30.8	-29.2	-28.9	-28.0	-27.4	-26.7	-26.8	-27.0	-26.9	-27.5	-31.6	-32.8	-32.7	-33.8
11.	-34.5	-35.4	-31.2	-31.3	-33.2	-28.8	-28.8	-29.3	-28.9	-28.7	-29.1	-28.5	-28.3	-28.0	-28.9	-28.2	-28.3	-28.3	-28.7	-29.4	-28.9	-29.7	-30.3	-30.7
12.	-30.8	-33.2	-33.3	-34.7	-32.2	-31.4	-31.5	-32.4	-33.3	-33.1	-32.3	-29.0	-28.7	-27.7	-27.9	-28.1	-28.0	-28.6	-30.6	-28.0	-27.1	-26.0	-26.6	-25.2
13.	-25.0	-25.6	-26.0	-25.5	-25.5	-25.4	-25.5	-25.0	-24.4	-23.8	-23.0	-22.2	-21.5	-21.0	-20.0	-19.4	-19.9	-20.8	-21.1	-21.3	-21.5	-21.4	-21.7	-22.3
14.	-22.6	-23.3	-23.5	-25.2	-26.5	-28.2	-29.5	-30.2	-31.4	-31.5	-31.5	-29.9	-28.6	-27.4	-25.9	-26.1	-25.4	-26.3	-26.6	-27.0	-27.1	-26.3	-25.9	-25.4
15.	-25.6	-25.7	-25.5	-24.4	-23.7	-22.6	-22.1	-22.2	-22.0	-21.2	-20.2	-19.0	-17.6	-15.0	-14.0	-13.2	-13.2	-13.2	-12.3	-12.6	-13.3	-14.3	-16.8	-16.4
16.	-19.0	-19.8	-20.9	-21.5	-21.4	-23.0	-24.7	-25.7	-26.3	-25.3	-25.0	-24.3	-24.3	-24.3	-24.3	-24.3	-25.3	-26.4	-27.4	-28.2	-28.5	-29.5	-31.2	-31.8
17.	-31.4	-31.4	-29.8	-29.2	-28.9	-29.4	-31.3	-31.5	-31.8	-32.2	-31.3	-30.8	-31.0	-31.1	-31.1	-31.1	-32.1	-32.8	-32.9	-32.9	-32.8	-33.7	-33.3	-34.4
18.	-34.3	-33.0	-33.3	-33.9	-34.4	-34.7	-34.6	-35.3	-35.3	-35.1	-33.9	-33.2	-32.3	-31.6	-31.3	-31.1	-29.7	-29.4	-29.6	-30.0	-31.2	-31.6	-29.1	-28.4
19.	-30.0	-29.7	-30.7	-29.9	-31.3	-33.7	-33.4	-34.1	-35.4	-36.1	-36.1	-35.7	-35.3	-35.2	-35.0	-35.9	-35.1	-36.0	-37.3	-37.6	-37.9	-37.0	-36.0	-36.5
20.	-37.2	-37.1	-37.6	-37.7	-37.8	-36.9	-37.7	-37.2	-37.2	-36.6	-35.6	-34.7	-33.8	-32.6	-31.1	-29.4	-28.0	-27.1	-27.3	-26.6	-27.2	-26.5	-27.5	-24.6
21.	-23.2	-22.1	-20.8	-19.8	-19.8	-21.8	-24.6	-26.6	-25.6	-25.0	-24.9	-24.2	-23.1	-21.3	-22.0	-22.1	-22.3	-23.0	-23.4	-23.7	-24.1	-25.7	-27.8	-26.5
22.	-26.7	-25.6	-26.1	-25.5	-24.0	-22.2	-21.6	-20.4	-19.0	-17.2	-14.9	-13.2	-13.1	-12.5	-12.2	-11.8	-12.2	-13.5	-13.2	-14.6	-12.8	-14.0	-13.0	-13.3
23.	-13.4	-13.4	-13.7	-13.9	-13.8	-13.3	-13.3	-13.4	-13.3	-13.4	-12.7	-12.2	-11.6	-10.8	-9.8	-8.8	-8.6	-8.7	-9.6	-10.0	-10.9	-12.2	-11.6	-12.1
24.	-10.5	-10.7	-10.3	-9.8	-9.3	-7.5	-5.8	-3.6	-2.8	-4.1	-3.3	-2.8	-7.0	-9.9	-10.5	-12.4	-14.2	-15.0	-15.8	-17.0	-18.0	-19.4	-24.3	-23.0
25.	-23.8	-24.3	-25.4	-24.3	-25.2	-25.7	-26.6	-26.1	-26.8	-26.0	-25.8	-25.8	-25.2	-25.2	-24.7	-23.9	-23.6	-22.9	-22.3	-23.2	-22.9	-23.4	-22.9	-21.6
26.	-21.0	-20.7	-20.0	-20.0	-19.6	-16.8	-14.6	-14.5	-14.3	-13.3	-11.8	-12.9	-15.4	-17.7	-20.9	-21.2	-21.8	-23.7	-23.8	-24.4	-25.2	-27.2	-27.2	-28.0
27.	-28.8	-29.2	-26.7	-26.0	-26.2	-25.4	-25.2	-24.7	-24.3	-23.6	-23.0	-21.6	-20.2	-17.6	-19.4	-16.5	-16.2	-15.7	-15.1	-14.5	-14.0	-13.2	-12.5	-11.7
28.	-12.1	-13.8	-15.2	-15.7	-15.7	-15.8	-16.8	-15.7	-16.2	-15.6	-15.1	-14.8	-14.7	-14.6	-14.4	-13.9	-14.8	-16.2	-18.1	-18.5	-21.8	-21.8	-19.8	-18.4
29.	-18.0	-17.8	-15.4	-15.5	-15.4	-15.3	-15.0	-14.8	-15.0	-15.0	-14.9	-15.3	-15.4	-15.2	-15.0	-14.4	-14.6	-15.1	-15.7	-17.2	-16.4	-17.0	-18.0	-24.7
30.	-25.0	-25.7	-26.2	-25.2	-25.2	-25.7	-24.4	-25.9	-22.0	-21.0	-19.3	-17.3	-15.4	-14.5	-14.5	-14.2	-12.7	-11.6	-11.6	-10.7	-10.5	-11.0	-11.7	-13.2
31.	-10.8	-11.6	-12.5	-13.2	-11.4	-14.0	-13.4	-15.6	-16.2	-15.2	-12.9	-10.5	-8.4	-8.1	-7.9	-7.2	-6.4	-5.2	-5.2	-5.8	-4.8	-5.7	-5.5	-6.8

MEAN -20.5 -20.8 -20.6 -20.6 -20.5 -20.3 -20.3 -20.6 -20.6 -20.5 -19.9 -19.1 -18.8 -18.3 -18.3 -17.9 -17.9 -18.4 -18.6 -18.8 -19.3 -19.5 -19.8 -20.0

MEAN DAILY DEWPOINT BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	-13.7	-9.5	-1.2	-11.7	-3.3	-7.3	-13.7	-21.9	-23.2	-30.4	-29.7	-29.9	-22.8	-27.0	-18.5	-25.0
DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MEAN	-31.5	-32.2	-34.5	-32.6	-23.4	-17.1	-11.8	-11.0	-24.4	-19.7	-20.4	-16.1	-16.0	-17.8	-9.7	

NOTE: AS OF JANUARY 1 1983, HOURLY DEWPOINT TEMPERATURES HAVE REPLACED HOURLY WETBULB TEMPERATURES IN THIS PUBLICATION.

