



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

DECEMBER / DÉCEMBRE

19 84

AT/À WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG

LAT: 49 ° 54 'N		LONG: 97 ° 14 'W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: 239.6 MÈTRES (NMM)		STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE:										
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 HOURS HEURES	
	MAXIMUM MAXIMALE °C	MINIMUM MINIMALE °C	MEAN MOYENNE °C	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 DOMINANTE		MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h
1	-12.6	-25.2	-18.9	36.9	0.0	98	70			0.2	Tr.	6	8.5	WNW	N 15	1.5
2	-20.6	-26.3	-23.5	41.5	0.0	81	68			Tr.	Tr.	6	4.3	W,WNW	WNW 7*	1.0
3	-14.0	-22.6	-18.3	36.3	0.0	86	71			Tr.	Tr.	6	5.7	W	NW 7*	1.7
4	-7.8	-17.8	-12.8	30.8	0.0	86	73			0.2	0.2	6	13.8	SSW	SSW 26*	4.9
5	-11.2	-24.2	-17.7	35.7	0.0	81	60			0.6	0.6	6	27.5	N,WNW	N 43*	7.7
6	-5.3	-23.3	-14.3	32.3	0.0	83	53					6	23.7	S	S 46	3.3
7	3.4	-5.7	-1.2	19.2	0.0	86	75					5	15.8	W	S 19*	0.0
8	2.0	-5.2	-1.6	19.6	0.0	95	80					5	10.2	SSW	W 15	4.2
9	1.5	-6.1	-2.3	20.3	0.0	97	83			Tr.	Tr.	4	10.3	W	WNW 20	2.9
10	0.6	-7.8	-3.6	21.6	0.0	100	91					3	26.8	S	S 46	0.6
11	-0.6	-23.0	-11.8	29.8	0.0	98	61			2.6	2.2	3	24.1	NNW	NNW 41	0.0
12	-22.1	-26.9	-24.5	42.5	0.0	72	60					4	7.4	N,NNW	NNW 19	6.9
13	-11.9	-23.1	-17.5	35.5	0.0	76	58			Tr.	Tr.	4	18.3	S	S 33	7.6
14	-4.7	-15.6	-10.2	28.2	0.0	82	69					4	25.2	S	S 43	4.3
15	-2.0	-5.1	-3.6	21.6	0.0	94	86					4	26.1	S	S 48	0.9
16	-3.1	-21.6	-12.4	30.4	0.0	93	63			5.8	5.6	6	37.8	NNW	NNW 50*	0.0
17	-20.8	-27.0	-23.9	41.9	0.0	74	62			2.9	2.7	10	19.4	N	NNE 30	0.0
18	-20.8	-28.8	-24.8	42.8	0.0	76	86			Tr.	Tr.	10	14.8	SSW	WSW 22	2.2
19	-8.8	-22.7	-15.8	33.8	0.0	96	61			2.0	1.6	9	17.6	S	S 28*	0.6
20	-8.0	-22.0	-15.0	33.0	0.0	92	60			Tr.	Tr.	11	20.2	SSE	SE 37	1.1
21	-8.0	-24.7	-16.4	34.4	0.0	98	56			1.0	0.8	11	26.3	NW	NW 48	1.5
22	-24.4	-28.6	-26.5	44.5	0.0	66	50					11	10.8	W	NW 20	6.5
23	-26.2	-30.0	-28.1	46.1	0.0	66	46					11	14.7	W	W 24	7.3
24	-21.3	-29.1	-25.2	43.2	0.0	62	45					11	18.7	WSW	W 26	7.5
25	-25.2	-31.7	-28.5	46.5	0.0	68	50					11	10.4	WNW	WNW 19	7.5
26	-15.6	-29.1	-22.4	40.4	0.0	82	53			0.4	0.2	11	15.7	E	ESE 28	0.0
27	-12.2	-21.2	-16.7	34.7	0.0	95	66			1.7	0.8	11	12.9	N	N 31	0.0
28	-20.0	-26.5	-23.3	41.3	0.0	74	64			7.4	6.9	11	30.0	N	N 39	0.0
29	-24.1	-28.9	-26.5	44.5	0.0	70	58			0.4	0.4	13	12.7	WSW	NNW 30	3.3
30	-26.1	-31.7	-28.9	46.9	0.0	74	51					13	10.2	W	W 19	5.0
31	-22.7	-34.5	-28.6	46.6	0.0	74	55			0.4	0.3	13	7.7	S	SSE 17	3.2
MEAN MOYENNE	-12.7	-22.5	-17.6	TOTAL 1102.8	TOTAL 0.0	83	63	TOTAL	TOTAL	TOTAL 25.6	TOTAL 22.3	13	17.0	PREVAILING DOMINANTE S	MAXIMUM NNW 50	TOTAL 93.2
NORMAL NORMALE	-9.4	-18.6	-14.0	991.8	0.0	88	70	0.0	0.9	20.7	19.2	13	18.6	S	54	92.6

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	1102.8	1187.8	991.8	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	12	5	4	0	0	13	7	5	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	2409.4	2366.6	2279.9	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	1873.2	1906.2	1783.3										

UDC 551.506.1 (

*) Indicates more than one occurrence of the same speed but not necessarily the same direction.

Subscription Price: \$1.06 monthly; \$10.60 per calendar year (January to December)
 Prix d'abonnement: mensuel \$1.06; annuel \$10,60 (janvier à décembre)



The month was cold with above normal precipitation. The 25.6 cm of snow received was the most recorded during a month since 1972. Sunshine and winds were near normal.

DAILY WEATHER SUMMARY FOR DECEMBER 1984**AT WINNIPEG, MANITOBA**

1. Cold. Mostly cloudy. Snow in morning. Snow grains morning until afternoon. Ice crystals afternoon and evening. Light fog in morning and mid evening. Visibility restricted. Light winds.
2. Cold. Mostly cloudy. Snow mid morning until early afternoon. Ice crystals early afternoon. Heavy fog in morning. Visibility severely restricted. Light winds.
3. Cold. Mostly cloudy. Ice crystals in morning and afternoon, light snow afternoon and evening. Light winds. Light fog in morning.
4. Below normal temperatures. Sunny becoming cloudy early afternoon. Ice crystals late morning to early afternoon. Snow late evening continued. Mostly light winds but NNE gust to 48 Km/h in evening.
5. Cold. Mostly sunny. Snow and ice crystals in morning. Moderate winds with north gusts to 59 Km/h in morning. Drifting snow in morning.
6. Below normal temperatures. Partly cloudy. Moderate winds with south gusts to 61 Km/h in the morning.
7. Mild. Cloudy. Light winds.
8. Mild. Mostly sunny. Light winds.
9. Mild. Mostly cloudy. Snow and snow pellets in early afternoon. Light winds.
10. Mild. Cloudy. Moderate winds with south gusts to 67 Km/h in morning.
11. Slightly above normal temperatures. Cloudy. Snow morning until afternoon. Blowing snow afternoon until early evening. Moderate winds with north gusts to 57 Km/h. Light fog in morning. Visibility restricted morning until late afternoon. Drifting snow morning until mid evening.
12. Very cold. Mostly sunny. Light winds.
13. Below normal temperatures. Mostly sunny. Ice crystals in afternoon. Mostly light winds.
14. Above normal temperatures. Partly cloudy. Moderate winds with south gusts to 59 Km/h in evening. Drifting snow in evening.
15. Mild. Mostly cloudy. Blowing snow in morning. Drifting snow until mid afternoon. Moderate winds with south gusts to 65 Km/h in morning.
16. Above normal temperatures. Cloudy. Ice pellets in morning. Snow during morning continued. Blowing snow most of the day. Visibility severely restricted. Moderate winds with north gusts to 70 Km/h in morning. Drifting snow. Traffic accidents with some roads closed.
17. Very cold. Cloudy. Snow flurries morning until late afternoon. Ice crystals late morning, early afternoon until late evening. Blowing snow in morning. Visibility restricted morning and afternoon. Drifting snow. Mostly light winds.
18. Very cold. Mostly cloudy. Ice crystals in morning. Light snow late morning until early afternoon. Mostly light winds. Drifting snow.
19. Slightly below normal temperatures. Cloudy. Snow morning until late afternoon. Visibility restricted. Mostly light winds. Drifting snow.
20. Normal temperatures. Mostly cloudy. Snow late morning until early afternoon. Moderate winds with SSE gusts to 48 Km/h in afternoon. Drifting snow.
21. Below normal temperatures. Mostly cloudy. Snow and blowing snow late morning until mid afternoon. Moderate winds with NW gusts to 63 Km/h early afternoon. Drifting snow.
22. Very cold. Mostly sunny. Light winds. Two Lynn Lake pilots and passengers missing near Churchill over Hudson Bay, two young men frozen to death near Lake St. Martin when their car stalled another one survived after a 11 hour walk.
23. Very cold. Mostly sunny. Mostly light winds.
24. Cold. Mostly sunny. Mostly light winds.
25. Very cold. Mostly sunny. Mostly light winds. Missing plane found 6 miles west of Belcher Islands badly smashed -- all were killed.
26. Cold. Cloudy. Light snow late morning continued. Mostly light winds. Some light drifting snow.
27. Normal temperatures. Cloudy. Snow all day. Light fog in morning. Visibility restricted. Mostly light winds. Some drifting snow.
28. Cold. Cloudy. Snow early morning then late morning continued all day. Blowing snow morning and afternoon. Ice crystals late evening. Visibility severely restricted. Some roads blocked. Moderate winds with north gusts to 52 Km/h in morning.
29. Cold. Partly cloudy. ice crystals and snow early morning, late morning, early afternoon and late evening. Visibility restricted early morning. Mostly light winds but drifting snow early morning.
30. Very cold. Mostly sunny. Mostly light winds.
31. Very cold. Sunny becoming cloudy early afternoon. Ice crystals morning and late evening. Light snow late afternoon and early evening. Light winds. Ice fog smoke over city late morning.

HOURLY DEWPOINT TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF DECEMBER 1984
 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.	-14.3	-14.8	-14.8	-14.9	-15.8	-17.0	-17.6	-17.8	-18.7	-19.3	-19.7	-19.8	-20.2	-20.0	-19.8	-19.4	-21.1	-21.8	-23.7	-24.8	-26.6	-26.7	-27.5	-28.6	
2.	-28.9	-29.1	-29.4	-29.9	-30.0	-29.3	-28.4	-26.1	-24.7	-24.7	-23.7	-24.2	-24.5	-24.4	-24.5	-24.7	-24.6	-25.9	-26.1	-27.5	-27.9	-27.4	-26.6	-26.1	
3.	-25.4	-24.2	-23.7	-23.2	-23.6	-24.9	-25.4	-24.9	-25.9	-25.3	-23.2	-21.3	-20.5	-18.9	-17.8	-17.0	-17.8	-18.5	-19.5	-19.0	-16.8	-16.7	-16.2	-17.5	
4.	-17.6	-17.6	-18.1	-19.0	-20.2	-20.2	-20.6	-20.0	-19.5	-19.0	-18.4	-16.4	-15.2	-14.3	-13.4	-11.8	-12.4	-12.5	-13.1	-11.0	-11.0	-11.1	-11.5	-11.9	
5.	-13.4	-16.2	-18.0	-19.4	-22.2	-25.3	-26.4	-27.5	-28.4	-28.8	-28.7	-28.6	-28.9	-28.7	-28.5	-28.0	-27.9	-28.0	-28.3	-28.5	-28.3	-28.5	-28.4	-28.7	
6.	-27.3	-27.5	-27.8	-27.1	-26.6	-25.5	-24.7	-24.7	-24.6	-24.0	-23.1	-21.2	-19.4	-17.3	-14.7	-12.5	-11.6	-10.9	-10.3	-10.1	-9.7	-9.2	-8.6		
7.	-8.3	-8.1	-8.0	-7.3	-5.1	-3.6	-3.7	-2.7	-3.1	-2.6	-2.3	-1.3	-0.8	-0.4	-0.2	-0.2	-0.4	-0.9	-1.1	-1.3	-1.6	-1.9	-2.0	-3.0	
8.	-3.2	-3.4	-3.3	-3.8	-4.2	-4.4	-6.0	-4.5	-4.6	-4.6	-3.0	-2.4	-1.9	-1.5	-1.4	-1.6	-1.2	-2.2	-2.6	-3.3	-3.7	-3.8	-1.0	-0.9	
9.	-9.9	-9.9	-7.7	-9.1	-1.4	-1.6	-2.2	-2.7	-3.2	-3.8	-3.5	-2.8	-2.3	-2.1	-1.5	-0.7	-2.0	-2.0	-3.1	-3.7	-5.0	-5.3	-5.9	-5.8	
10.	-6.5	-7.1	-7.6	-7.8	-9.1	-7.8	-7.3	-6.3	-5.6	-3.9	-2.5	-3.2	-2.4	-1.7	-1.5	-1.3	-1.3	-1.4	-1.4	-1.0	-1.1	-1.7	-1.8	-1.8	
11.	-1.9	-1.4	-1.3	-1.5	-1.9	-1.9	-2.2	-2.7	-3.0	-3.9	-4.1	-7.9	-10.5	-11.9	-14.2	-16.4	-18.2	-20.9	-22.0	-23.8	-24.8	-25.6	-26.2	-27.3	
12.	-27.7	-28.5	-28.7	-28.8	-29.3	-29.9	-30.4	-30.4	-31.2	-30.2	-28.6	-28.9	-28.5	-28.0	-28.2	-28.2	-28.4	-28.4	-28.1	-28.2	-28.6	-28.1	-28.4	-26.6	
13.	-26.9	-27.3	-27.1	-26.5	-27.0	-27.1	-26.6	-26.6	-25.5	-25.0	-24.2	-23.9	-21.4	-20.2	-19.3	-18.6	-17.9	-17.6	-17.4	-17.2	-16.9	-16.7	-16.8	-17.1	
14.	-17.7	-17.6	-18.1	-17.8	-17.3	-16.6	-16.0	-15.2	-14.4	-13.8	-13.0	-13.2	-11.6	-10.5	-10.5	-9.9	-10.0	-9.5	-9.9	-9.2	-8.7	-8.8	-8.8	-8.2	
15.	-7.5	-6.8	-5.6	-4.9	-4.6	-4.8	-5.0	-5.0	-4.9	-4.9	-4.6	-4.6	-4.6	-4.5	-4.6	-4.4	-4.3	-4.5	-4.3	-4.4	-4.9	-4.7	-4.9	-4.8	
16.	-4.4	-4.6	-7.1	-8.6	-9.1	-9.9	-11.5	-13.4	-14.4	-14.4	-12.2	-16.2	-17.1	-18.0	-19.8	-20.6	-20.7	-21.8	-22.5	-22.9	-23.1	-24.2	-24.7	-25.7	-26.2
17.	-26.1	-25.3	-25.6	-25.6	-25.7	-26.0	-26.0	-26.5	-26.5	-26.6	-26.7	-27.1	-27.3	-27.1	-26.9	-26.6	-27.1	-27.1	-27.5	-28.7	-29.5	-30.2	-30.0	-30.2	
18.	-30.8	-30.7	-31.3	-32.2	-31.7	-32.3	-32.2	-32.9	-32.2	-32.2	-30.7	-29.0	-26.9	-26.8	-27.0	-27.4	-27.7	-27.7	-28.1	-28.1	-28.0	-28.5	-28.1	-27.5	
19.	-27.6	-27.6	-27.2	-25.9	-24.4	-23.2	-23.0	-23.0	-23.7	-22.3	-20.6	-16.7	-14.0	-11.6	-12.6	-12.3	-10.1	-10.6	-14.2	-13.9	-16.2	-15.8	-17.5	-17.7	
20.	-20.6	-22.9	-25.3	-22.2	-20.8	-23.2	-22.1	-21.9	-21.9	-21.3	-20.7	-18.5	-17.4	-15.8	-14.7	-13.8	-13.9	-13.8	-13.2	-13.0	-12.6	-12.0	-10.6	-9.5	
21.	-9.7	-9.8	-10.6	-10.7	-11.6	-11.5	-11.6	-11.4	-12.7	-12.2	-12.4	-9.7	-11.6	-15.2	-17.9	-20.7	-23.4	-24.4	-25.7	-25.9	-26.4	-27.2	-28.4	-29.6	
22.	-31.1	-31.7	-32.6	-32.9	-33.5	-33.1	-33.3	-32.9	-34.4	-33.6	-33.1	-33.3	-32.2	-32.4	-32.6	-32.7	-32.9	-32.6	-32.4	-32.5	-33.1	-32.8	-32.7	-32.7	
23.	-33.0	-32.7	-32.7	-32.7	-33.8	-33.7	-34.3	-35.3	-34.6	-35.4	-34.8	-34.2	-33.8	-33.8	-34.1	-34.3	-33.8	-34.3	-34.4	-35.3	-35.7	-35.5	-35.6	-35.5	
24.	-35.5	-35.5	-35.4	-35.1	-34.4	-34.3	-34.3	-34.3	-34.2	-34.0	-33.6	-32.7	-31.9	-30.9	-30.1	-29.7	-29.9	-30.6	-31.2	-31.0	-30.4	-31.1	-31.6	-31.2	
25.	-31.6	-31.1	-31.5	-32.4	-34.0	-35.3	-34.7	-34.2	-34.9	-35.3	-34.3	-33.3	-33.4	-33.3	-32.7	-32.9	-32.9	-33.9	-34.3	-34.8	-35.0	-35.9	-35.0	-34.9	
26.	-34.4	-34.8	-34.6	-33.8	-33.4	-33.5	-33.4	-33.1	-32.7	-31.7	-31.4	-31.1	-30.2	-29.2	-28.5	-27.5	-27.5	-25.7	-23.6	-22.5	-21.9	-21.2	-20.4	-19.5	
27.	-18.6	-17.8	-17.3	-16.8	-16.6	-15.9	-15.4	-15.5	-15.2	-14.8	-13.6	-14.1	-13.8	-13.8	-14.3	-15.1	-15.7	-16.2	-16.7	-17.2	-19.3	-20.9	-22.0	-24.3	
28.	-25.3	-24.4	-24.9	-25.5	-26.5	-26.2	-26.0	-26.2	-27.0	-26.7	-27.1	-27.2	-27.6	-27.7	-27.4	-27.1	-27.2	-27.2	-27.1	-27.5	-27.1	-27.0	-27.9	-29.5	
29.	-28.9	-28.5	-29.3	-31.1	-32.3	-32.7	-32.8	-32.7	-32.9	-32.6	-32.2	-31.2	-30.6	-30.2	-30.4	-30.7	-31.1	-32.5	-31.1	-31.3	-30.7	-30.7	-30.8	-30.6	
30.	-31.4	-31.9	-34.8	-34.6	-35.6	-36.2	-36.3	-36.0	-37.3	-37.1	-37.0	-36.5	-35.9	-35.9	-35.4	-34.6	-34.2	-33.8	-33.8	-33.6	-33.9	-34.2	-34.8	-35.1	
31.	-34.9	-36.5	-36.8	-36.5	-36.7	-37.6	-37.6	-38.7	-37.8	-37.1	-35.4	-32.2	-32.0	-31.6	-31.4	-31.2	-30.3	-29.4	-28.2	-27.3	-27.0	-26.9	-27.7	-27.5	

MEAN -20.9 -21.1 -21.5 -21.8 -22.0 -22.1 -22.0 -22.1 -21.9 -21.3 -20.7 -20.3 -20.0 -19.9 -19.7 -19.8 -20.2 -20.3 -20.4 -20.6 -20.8 -21.0 -21.1

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	-20.1	-26.5	-21.0	-15.6	-25.9	-19.2	-2.8	-2.5	-2.4	-3.8	-11.4	-28.7	-22.0	-12.7	-4.8	-16.6

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

MEAN DAILY DEWPOINT BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	-27.1	-29.5	-18.7	-17.5	-17.0	-32.7	-34.2	-32.5	-33.7	-28.9	-16.6	-26.7	-31.1	-34.9	-32.7

