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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

MARCH / MARS

19 84

AT/A WINNIPEG INT'L AIRPORT / AEROPORT INTERN DE WINNIPEG

LAT: 49° 54' N			LONG: 97° 14' W			ELEVATION: ALTITUDE: 239.6		METRES (ASL) 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				
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION					
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%		mm	cm	mm		km/h		km/h					
1	-4.9	-15.9	-10.4	28.4		80	46				2	15.5	E	ESE22	8.7					
2	-3.0	-16.3	-9.7	27.7		86	46				2	10.4	SSE	SSE19	4.9					
3	-2.7	-9.2	-6.0	24.0		100	73		0.2	0.8	2	10.2	S	SSE17*	0.0					
4	-2.0	-14.0	-8.0	26.0		99	73			1.4	2	15.7	NNW	N 41	0.1					
5	-13.6	-23.7	-18.7	36.7		82	44				2	24.1	N	N 31*	10.3					
6	-15.5	-25.9	-20.7	38.7		64	33				2	8.7	NNE	SE 19*	9.6					
7	-11.1	-20.3	-15.7	33.7		62	36				2	18.0	E	NE 30	5.3					
8	-11.1	-25.6	-18.4	36.4		66	33				2	7.7	WNW	W 15	9.6					
9	-6.8	-20.6	-13.7	31.7		77	54				2	15.3	W	SSW28	10.4					
10	-6.1	-23.9	-15.0	33.0		88	45			1.0	2	36.5	NNW	NNW59*	8.4					
11	-12.5	-27.0	-19.8	37.8		63	39				2	12.0	W	W 20	9.5					
12	-8.2	-20.2	-14.2	32.2		86	63			0.4	1	13.9	S	S 24*	6.3					
13	-7.1	-17.4	-12.3	30.3		89	64			TR.	1	7.2	NNE	NNE19	6.1					
14	-7.8	-16.3	-12.1	30.1		94	77		TR.	8.2	1	26.3	N	N 48	0.0					
15	-14.7	-22.9	-18.8	36.8		84	43			TR.	8	26.2	N	N 37	10.1					
16	-7.3	-27.4	-17.4	35.4		69	39				8	15.7	ESE*	SE 22*	8.4					
17	-3.2	-10.2	-6.7	24.7		83	51			0.2	6	16.5	SE*	SE 20*	2.3					
18	-1.6	-9.6	-5.6	23.6		82	61				6	15.2	SSE	SSE22	7.3					
19	1.0	-4.7	-1.9	19.9		94	81		TR.		5	17.8	SSE	S 24*	0.0					
20	1.0	-1.3	-0.2	18.2		100	85		TR.	TR.	4	9.2	N	NNE20	0.0					
21	4.2	-2.9	0.7	17.3		90	62				2	20.2	N	N 28*	7.8					
22	2.3	-4.1	-0.9	18.9		85	53				TR	13.7	N	NNE24	10.2					
23	10.0	-1.8	4.1	13.9		90	61				TR	12.8	S	NW 24	4.7					
24	10.1	-2.2	4.0	14.0		97	70				TR	12.3	SE	ESE19*	9.3					
25	10.3	-2.0	4.2	13.8		92	58				TR	16.0	SE	S 26	7.6					
26	5.2	2.7	4.0	14.0		97	71		2.0	TR.	0	22.5	SSE	SSE33	0.0					
27	8.9	1.3	5.1	12.9	0.1	100	54		0.4		0	8.7	N	SSE17	2.4					
28	7.4	-1.8	2.8	15.2		100	69				0	13.5	N	N 17*	4.8					
29	4.8	-3.9	0.5	17.5		86	49				0	11.0	ESE	ENE17	10.5					
30	7.1	-5.8	0.7	17.3		96	48				0	8.3	N	NE 17*	10.1					
31	8.9	-5.2	1.9	16.1		89	40				0	7.5	NNW	NNW13*	10.8					
MEAN MOYENNE	-1.9	-12.2	-7.1	776.2	0.1	86	56	0	2.6	12.0	11.7	15.2	DOMINANTE	NNW59	195.5					
NORMAL NORMALE	-2.8	-13.5	-8.2	811.3	1.6	88	63	0.1	3.3	21.1	22.7	19.3	SOUTH	56	176.2					
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	1.0	2.0	10.0	50.0	0.2	1.0	2.0	10.0	50.0			
								OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS	OR MORE OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	776.2	702.6	811.3	TOTAL FOR MONTH TOTAL DU MOIS	0.1	0.0	1.6													
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	4934.7	4661.1	5194.5	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	1906.3	1706.4	1784.9	7	3	2			6	3	1					

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

CLIMATOLOGICAL SUMMARY FOR MARCH 1984

AT WINNIPEG, MANITOBA

The month was sunny, dry and on the most part warm. Only 11.7 mm of precipitation was recorded making this the seventh consecutive month of below normal precipitation. The warmest day was 10.3°C on the 25th while the coldest night was -27.4°C on the 16th. Sunshine with 195.5 hours was eleven percent above normal.

DAILY WEATHER SUMMARY FOR MARCH 1984

AT WINNIPEG, MANITOBA

1. Slightly above normal temperatures. Mostly sunny. Light winds but ESE gusts to 31 Km/h in the morning. Single engine plane found in lake 140 km SW of Churchill. Two killed.
2. Above normal temperatures. Partly cloudy. Light winds but south gust to 31 Km/h in evening.
3. Mild. Cloudy. Freezing drizzle 2:40 p.m. to 6:42 p.m., 7:26 p.m. to 10:43 p.m. Snow 5:41 a.m. to 9:40 p.m. Snow grains 2:20 p.m. to 2:45 p.m. Heavy fog 11:50 p.m. continued. Visibility restricted late morning on. Light winds. Timber wolf attacks sheep at Flin Flon.
4. Mild. Cloudy. Snow 9:15 a.m. to 6:10 p.m. Heavy fog until 8:50 a.m. Mostly light winds but north gust to 57 Km/h in the evening. Visibility restricted until late afternoon.
5. Cold. Sunny. Moderate winds with north gusts to 41 Km/h in the morning.
6. Cold. Mostly sunny. Light winds.
7. Below normal temperatures. Partly cloudy. Mostly light winds but NE gust to 35 Km/h in afternoon.
8. Cold. Sunny. Light winds.
9. Below normal temperatures. Sunny. Mostly light winds but SSW gust to 44 Km/h in the late evening.
10. Below normal temperatures. Cloudy clearing by mid morning. Snow sometimes heavy 3:51 a.m. to 9:17 a.m. Blowing dust 7:14 a.m. to 9:28 a.m. Visibility severely restricted in the morning. Strong winds with NNW gusts to 78 Km/h in the morning. Numerous traffic accidents. Highways closed. Blowing snow 7:09 a.m. to 10:40 a.m. Drifting snow until mid afternoon.
11. Cold. Sunny. Light winds.
12. Below normal temperatures. Sunny becoming cloudy in the early afternoon. Snow 2:54 p.m. to 9:10 p.m. Ice crystals 11:40 p.m. continued. Mostly light winds but SSE gusts 37 Km/h in late morning. Visibility restricted in the evening.
13. Below normal temperatures. Partly cloudy. Ice crystals to 7:29 a.m. Snow 7:29 a.m. to 8:10 a.m. Light winds.
14. Below normal temperatures. Cloudy. Snow 3:14 a.m. to 10:50 p.m. Snow pellets 10:49 a.m. to 3:45 p.m. Ice crystals 10:50 p.m. continued. Freezing rain 1:39 p.m. to 3:12 p.m. Visibility reduced mid morning on. Moderate winds with north gust to 61 Km/h in afternoon. Blowing snow 9:36 p.m. continued. Drifting snow.
15. Cold. Mostly sunny. Moderate winds with north gust to 46 Km/h in the morning. Ice crystals to 6:40 a.m. Blowing snow to 00:20 a.m. Drifting snow.
16. Cold. Mostly sunny. Mostly light winds but SE gusts to 33 Km/h in the evening.
17. Above normal temperatures. Mostly cloudy. Snow 6:10 a.m. to 9:34 a.m. Mostly light winds. Drifting snow in the morning and early afternoon. Visibility reduced in the morning.
18. Above normal temperatures. Sunny becoming cloudy by mid afternoon. Mostly light winds but south gust to 31 Km/h in the afternoon.
19. Mild. Cloudy. Freezing drizzle 11:55 p.m. continued. Mostly light winds but south gust to 31 Km/h in the morning.
20. Mild. Cloudy. Freezing drizzle to 8:37 a.m. Snow 7:50 a.m. to 8:25 a.m. Heavy fog 7:38 a.m. to 8:52 a.m. Light fog the remainder of the morning to mid afternoon. Light winds.
21. Mild. Cloudy clearing in late morning. Moderate winds with north gust to 39 Km/h in the afternoon.
22. Mild. Mostly sunny. Light winds.
23. Mild. Partly cloudy. Mostly light winds but south gust to 35 Km/h in the morning.
24. Mild. Mostly sunny. Light winds. Light fog in the morning. Visibility restricted.
25. Mild. Partly cloudy. Mostly light winds but SE gusts to 37 Km/h in the early afternoon.
26. Mild. Cloudy. Snow flurries 1:55 a.m. to 2:10 a.m. Rain 2:26 a.m. to 3:08 a.m. Snow 3:35 a.m. to 4:05 a.m. Rain 3:45 to 4:15 a.m., 7:45 a.m. to 8:50 a.m., 11:55 a.m. continued. Light fog in mid morning until late evening. Visibility restricted. Moderate winds with SSE gusts to 52 Km/h in the morning.
27. Mild. Mostly cloudy. Rain to 8:15 a.m. Light winds. Light fog in the morning. Visibility restricted.
28. Mild. Mostly cloudy. Light winds. Light fog in the morning until mid afternoon. Visibility restricted.
29. Above normal temperatures. Mostly sunny. Light winds.
30. Above normal temperatures. Mostly sunny. Light winds. Very light fog.
31. Mild. Mostly sunny. Light winds.

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.	-14.8	-13.8	-11.5	-12.7	-14.8	-15.3	-15.3	-16.0	-15.6	-15.7	-15.1	-14.2	-14.3	-15.1	-15.5	-14.3	-14.3	-13.0	-14.7	-15.2	-16.3	-16.6	-17.1	-17.1
2.	-18.8	-18.0	-18.0	-18.0	-16.8	-16.7	-17.2	-17.5	-17.0	-14.9	-13.8	-13.8	-13.5	-13.7	-14.0	-13.2	-13.2	-13.7	-12.7	-13.7	-12.0	-11.5	-11.0	-10.4
3.	-9.8	-9.7	-9.6	-10.7	-10.2	-9.7	-9.7	-9.8	-10.0	-9.8	-8.2	-7.4	-6.6	-6.0	-5.2	-4.3	-4.3	-4.0	-3.5	-3.4	-3.0	-3.2	-3.1	-3.6
4.	-4.5	-4.9	-5.6	-5.9	-6.7	-7.8	-7.8	-7.1	-7.0	-6.3	-6.2	-5.3	-5.0	-4.3	-3.5	-3.5	-3.5	-6.3	-8.0	-10.2	-11.8	-13.0	-14.2	-15.3
5.	-16.6	-17.3	-18.1	-19.5	-20.5	-22.3	-24.6	-25.0	-25.6	-25.6	-24.9	-25.1	-24.3	-26.9	-26.5	-27.2	-27.1	-27.1	-27.5	-27.7	-28.0	-28.2	-29.0	-29.5
6.	-29.6	-29.8	-30.5	-30.4	-31.1	-30.9	-31.2	-31.0	-30.6	-29.8	-29.7	-29.9	-29.4	-28.7	-28.4	-27.2	-28.6	-27.7	-28.5	-26.8	-25.6	-25.5	-26.2	-26.1
7.	-25.9	-26.4	-27.5	-27.5	-27.3	-27.7	-28.6	-28.0	-27.3	-26.7	-25.6	-24.3	-23.4	-22.9	-24.5	-25.1	-23.6	-24.3	-23.4	-24.3	-24.0	-22.5	-22.6	-23.4
8.	-26.6	-27.6	-28.7	-28.9	-29.5	-29.4	-30.3	-30.5	-29.7	-27.3	-25.4	-24.3	-23.0	-14.8	-14.8	-15.1	-14.5	-14.7	-14.7	-14.7	-14.5	-14.3	-14.6	-14.8
9.	-23.8	-23.8	-22.4	-22.7	-23.0	-22.5	-24.3	-24.0	-24.0	-22.0	-20.1	-17.6	-15.8	-22.3	-21.8	-21.2	-22.2	-24.7	-23.6	-25.0	-28.7	-28.0	-28.5	-29.1
10.	-15.0	-14.8	-14.2	-13.5	-12.7	-11.6	-9.6	-7.7	-11.5	-16.2	-17.7	-17.7	-19.9	-22.3	-23.1	-21.8	-24.3	-24.3	-24.7	-24.3	-25.0	-28.7	-28.0	-28.5
11.	-29.7	-30.3	-30.6	-31.6	-31.9	-32.2	-31.6	-32.1	-30.8	-29.8	-29.5	-27.6	-25.5	-23.4	-24.0	-24.3	-23.4	-23.4	-24.0	-23.7	-22.6	-22.7	-22.2	-22.2
12.	-22.1	-22.0	-21.6	-22.2	-23.8	-23.1	-22.9	-22.3	-20.0	-18.0	-17.0	-16.3	-16.0	-15.6	-15.4	-14.6	-14.4	-13.9	-14.4	-13.8	-13.4	-14.3	-16.1	-16.1
13.	-16.0	-17.8	-18.0	-17.4	-17.2	-18.5	-18.1	-18.7	-16.6	-14.1	-14.0	-14.0	-13.9	-13.8	-13.3	-12.9	-13.1	-13.2	-13.0	-12.6	-13.8	-13.9	-14.3	-14.2
14.	-13.9	-14.9	-15.2	-15.3	-14.8	-14.1	-13.5	-12.5	-11.3	-10.2	-9.5	-9.6	-9.2	-9.7	-9.9	-10.0	-10.6	-11.0	-11.3	-12.2	-13.3	-14.6	-15.5	-17.2
15.	-18.6	-19.8	-20.6	-23.9	-23.6	-24.6	-26.1	-27.1	-27.0	-26.7	-25.5	-25.3	-24.0	-22.5	-20.8	-21.8	-23.4	-25.1	-25.1	-26.1	-26.6	-27.7	-28.5	-28.8
16.	-29.0	-29.6	-31.1	-32.0	-31.6	-31.6	-30.8	-29.8	-25.1	-24.5	-23.2	-22.7	-21.6	-20.3	-19.6	-19.4	-18.7	-19.7	-19.4	-20.2	-20.0	-20.3	-19.4	-19.3
17.	-18.5	-17.6	-16.6	-15.5	-14.6	-14.2	-14.0	-11.8	-12.2	-12.4	-13.8	-12.8	-12.8	-12.5	-12.0	-11.8	-11.7	-12.4	-12.1	-12.2	-11.5	-11.3	-10.8	-10.7
18.	-11.0	-11.0	-11.0	-11.0	-11.2	-11.4	-12.0	-12.6	-10.9	-10.5	-10.1	-9.3	-8.8	-8.0	-7.6	-8.4	-7.6	-7.3	-6.6	-6.6	-6.9	-6.6	-6.4	-6.6
19.	-6.3	-6.9	-7.0	-6.8	-6.9	-6.9	-6.8	-6.7	-6.4	-5.8	-5.2	-4.2	-3.8	-3.0	-2.3	-2.1	-1.7	-1.2	-1.4	-1.5	-1.5	-1.6	-1.4	-1.4
20.	-1.4	-1.3	-1.4	-1.4	-1.2	-1.5	-1.3	-1.3	-1.0	-0.8	-0.4	-0.5	-0.6	-1.0	-1.0	-1.3	-1.6	-1.6	-1.4	-1.3	-1.2	-1.2	-1.1	-1.3
21.	-1.7	-1.6	-1.6	-1.5	-1.6	-1.9	-2.6	-2.5	-2.2	-2.1	-2.0	-1.7	-1.6	-1.6	-2.8	-2.4	-3.4	-3.0	-3.9	-3.4	-3.5	-4.0	-4.5	-4.3
22.	-4.5	-4.7	-5.1	-5.6	-5.9	-6.2	-4.9	-4.7	-4.9	-5.1	-5.1	-4.7	-5.5	-7.2	-6.1	-5.5	-6.3	-6.4	-7.6	-6.1	-4.9	-5.1	-5.1	-4.3
23.	-4.4	-4.2	-4.4	-3.5	-3.1	-2.6	-2.2	-1.8	-1.4	-1.1	-1.0	-0.4	-0.6	2.3	3.0	2.3	1.9	2.0	1.9	1.2	1.3	1.7	1.3	2.2
24.	-2.2	-2.3	-2.3	-2.0	-1.9	-1.5	-1.5	-1.0	-0.5	-0.6	1.4	2.0	2.6	3.7	3.9	5.0	4.0	3.7	2.4	1.7	1.5	1.0	-0.3	-0.7
25.	-1.0	-1.2	-1.3	-2.0	-2.0	-2.5	-2.3	-2.4	-1.6	-1.0	-0.6	2.0	3.2	2.3	2.0	1.5	1.5	1.6	1.7	1.6	1.7	1.0	-0.3	-0.8
26.	-1.0	-2.2	2.0	2.2	2.9	2.7	2.4	2.3	2.2	1.6	1.9	2.9	2.7	2.7	2.8	3.0	3.0	2.4	2.4	2.6	2.7	3.1	2.9	2.4
27.	2.3	2.0	1.9	1.8	1.9	1.5	1.5	3.0	2.8	2.4	3.0	2.5	2.5	1.0	1.0	1.3	1.1	1.1	1.1	1.0	1.0	1.4	1.1	1.3
28.	1.0	0.4	-1.1	-2.1	0.0	-0.2	-0.2	-0.4	-0.6	-0.9	1.0	1.0	1.0	1.4	1.6	2.1	1.5	2.3	1.7	1.4	-1.1	-1.1	-1.4	-1.4
29.	-2.1	-4.6	-5.5	-6.0	-5.7	-7.0	-6.8	-6.6	-6.2	-5.8	-5.4	-5.6	-5.8	-5.0	-5.7	-5.1	-4.2	-4.5	-3.8	-4.2	-3.8	-5.8	-5.7	-5.6
30.	-5.9	-5.1	-5.2	-5.6	-6.1	-5.8	-5.6	-5.2	-3.7	-3.1	-3.5	-3.1	-2.7	-3.1	-4.1	-3.5	-3.3	-3.5	-3.9	-4.0	-4.1	-3.9	-4.3	-5.1
31.	-4.7	-5.5	-5.7	-5.4	-6.5	-7.0	-6.6	-5.1	-3.4	-2.4	-2.4	-2.7	-2.8	-3.0	-4.0	-5.1	-3.5	-4.5	-3.5	-2.6	-3.5	-4.3	-4.5	-4.7

MEAN -12.0 -12.2 -12.3 -12.6 -12.7 -12.9 -12.9 -12.7 -12.1 -11.6 -11.1 -10.5 -10.1 -10.0 -10.0 -9.9 -9.9 -10.2 -10.3 -10.4 -10.6 -10.9 -11.2 -11.4

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	-14.8	-14.6	-6.8	-7.1	-24.7	-28.8	-25.3	-25.8	-18.5	-19.0	-27.0	-17.8	-15.0	-12.4	-24.5	-24.0

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	-13.0	-9.0	-4.0	-1.1	-2.5	-5.4	-4.4	1.1	-1.1	2.2	1.5	0.5	-5.2	-4.2	-4.2

