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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JULY / JUILLET

19 84

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

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 239.6 METRES (ASL) / 786.1 METRES (NMM)		STANDARD TIME USED: CENTRAL										
DATE	TEMPERATURE			DEGREE-DAYS		REL. HUMIDITY		THUNDERSTORM	PRECIPITATION			SNOW ON GROUND	WIND			BRIGHT SUNSHINE
	MAXIMUM	MINIMUM	MEAN	HEATING	GROWING	MAXIMUM	MINIMUM		RAINFALL	SNOWFALL	TOTAL PRECIP.		AVERAGE SPEED	PREVAILING DIRECTION	MAXIMUM SPEED	
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h	DIRECTION	km/h	HOURS	
1	23.4	12.6	18.0		13.0	98	55	1	3.4		3.4		17.7 S	S 30	8.4	
2	26.5	16.5	21.5		16.5	98	40		0.6		0.6		13.6 S	S 26	10.5	
3	24.2	13.0	18.6		13.6	87	46		Tr.		Tr.		16.0 W	WNW26	14.4	
4	22.3	11.5	16.9	1.1	11.9	96	44		0.6		0.6		16.0 W	WNW30	14.8	
5	18.5	8.1	13.3	4.7	8.3	100	49		0.4		0.4		18.1 N	N 30*	9.8	
6	20.8	4.6	12.7	5.3	7.7	97	41		Tr.		Tr.		6.8 NNW	NE 11	15.4	
7	21.5	9.6	15.6	2.4	10.6	92	47		4.8		4.8		19.7 S	S 39	6.8	
8	25.7	13.0	19.4		14.4	100	60	1	0.4		0.4		13.5 S	SSE22*	12.0	
9	28.0	12.8	20.4		15.4	100	39						11.0 W	W 22*	13.5	
10	27.5	13.3	20.4		15.4	89	45		0.4		0.4		9.0 WSW	W 17	12.3	
11	28.9	14.8	21.9		16.9	88	33						12.8 W	WNW26	15.0	
12	30.0	14.0	22.0		17.0	90	41	1	Tr.		Tr.		17.3 ESE	E 35*	9.7	
13	27.4	15.2	21.3		16.3	93	61	1	17.5		17.5		19.6 SE	SSE30	9.0	
14	23.9	14.5	19.2		14.2	90	54	1	0.2		0.2		19.3 W	W 33*	10.3	
15	24.7	14.2	19.5		14.5	96	47		Tr.		Tr.		23.1 NW	NW 35	14.2	
16	22.4	12.7	17.6	0.4	12.6	92	52	1	1.4		1.4		18.8 WNW	NW 37	9.9	
17	24.2	9.7	17.0	1.0	12.0	100	53						10.0 NW	NW 17*	14.9	
18	30.2	13.0	21.6		16.6	89	43						19.9 SSW	NW 28*	11.7	
19	25.5	10.4	18.0		13.0	91	39						12.8 NNW	NNW26	14.8	
20	27.0	9.8	18.4		13.4	91	48		0.2		0.2		15.4 SSE	SSE33	10.3	
21	28.8	20.6	24.7		19.7	88	63	1	0.2		0.2		19.4 S	S 33	4.1	
22	25.2	16.0	20.6		15.6	95	45						15.0 NW	NW 39	5.6	
23	24.9	12.8	18.9		13.9	92	51						14.8 NW	NW 24	14.7	
24	26.3	10.2	18.3		13.3	98	40						2.7 CALM	WSW 9	13.9	
25	28.0	12.5	20.3		15.3	94	51	1	Tr.		Tr.		8.0 SSW	WNW28	7.4	
26	26.7	10.9	18.8		13.8	100	51	1	Tr.		Tr.		4.6 CALM	NE 11*	11.7	
27	28.7	13.2	21.0		16.0	100	43						4.8 S	S 11	13.7	
28	31.1	15.8	23.5		18.5	85	39						14.9 S	S 22	13.6	
29	27.0	17.9	22.5		17.5	85	56		Tr.		Tr.		20.7 S	SSE26*	5.6	
30	25.8	20.0	22.9		17.9	100	75		8.0		8.0		12.7 S	S 26	2.0	
31	27.6	17.8	22.7		17.7	100	60	1	0.2		0.2		6.8 NNE	NNE19*	3.3	
MEAN MOYENNE	25.9	13.3	19.6	TOTAL 14.9	TOTAL 452.5	94	49	TOTAL 10	TOTAL 38.3	TOTAL 38.3			14.0 S DOMINANTE	MAXIMUM NW 39	TOTAL 333.3	
NORMAL NORMALE	25.9	13.3	19.6	21.1	453.8	90	45	6.5	75.9	75.9			16.0 S	51	315.6	

DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS

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	DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE:				
								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	14.9	12.0	21.1	TOTAL FOR MONTH TOTAL DU MOIS	452.5	532.9	453.8	14	5	4	1	0	0	0	0	0	
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	14.9	12.0	21.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1071.5	1059.0	1061.9										

UDC 551.506.1 (

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

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Unofficial hail on 16th, 25th and 26th at Winnipeg. Hail near Headingly on the 31st.



CLIMATOLOGICAL SUMMARY FOR JULY 1984**AT WINNIPEG, MANITOBA**

Temperatures for July 1984 were exactly on the normal mark but precipitation was well below the monthly average.

A total of 58.3 mm of rainfall was recorded for the month, 50 percent of the usual 75.9 mm July rainfall. The month's highest temperature was 31.1°C on the 28th and the lowest temperature was 4.6°C on the morning of the 6th.

Thunder was recorded on 10 days. Although no hail fell at the Airport there were three days with hail in other parts of the city. Sunshine was slightly above normal with 333.3 hours compared to the normal 315.6 hours. The mean wind speed of 14.0 kilometres per hour was below the monthly average of 16.0 kilometres per hour.

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

1. Near normal temperatures. Cloudy clearing mid morning. Thunder late evening. Showers in morning and late evening. Mostly light winds.
2. Warm. Cloudy clearing late morning. Showers until mid morning. Mostly light winds.
3. Near normal temperatures. Mostly sunny. Showers in early evening. Unofficial reports of hail at Winnipeg Speedway at St. Adolphe. Mostly light winds.
4. Below normal temperatures. Mostly sunny. Mostly light winds. Showers mid to late evening lightning late evening.
5. Cool. Partly cloudy. Showers early afternoon and late evening continued. Mostly light winds.
6. Cool. Mostly sunny. Light winds. Showers until early morning. Grasshopper invasion in southern Manitoba worst in 20 years. Hail reported at St. Walburg.
7. Cool. Partly cloudy. Showers or rain afternoon and evening. Mostly light winds.
8. Normal temperatures. Sunny becoming cloudy mid afternoon. Thundershowers in afternoon. Tornadoes in Southern Manitoba at St. Claude, Rosenort, Sperling. Severe hail in southern Manitoba. Considerable damage. Funnel cloud seen near Virden.
9. Slightly above normal temperatures. Mostly sunny. Heavy fog in morning. Mostly light winds.
10. Near normal temperatures. Cloudy clearing mid morning. Light winds. Showers in early morning. Hail at Anola, crop damage.
11. Slightly above normal temperatures. Sunny. Mostly light winds.
12. Above normal temperatures. Partly cloudy. Thundershowers in evening. Mostly light winds. Funnel clouds seen near Rocanville and Fleming. Hail at Sprague, Pinawa, St. Alphonse, Fleming, Somerset and near Gimli.
13. Slightly above normal temperatures. Partly cloudy. Mostly light winds. Thunder in afternoon and evening continued. Light showers morning and afternoon. showers sometimes heavy in evening. Hail reported at Selkirk, Lockport, and Balmoral. Funnel clouds seen near Winnipeg, Balmoral and Fisher Branch.
14. Near normal temperatures. Sunny becoming cloudy late morning. Thunder in very early morning. showers in evening. Mostly light winds. Severe hail east of Atikokan. Tornado near DocSicin Lake.
15. Near normal temperatures. Mostly sunny. Showers in early morning. Moderate winds.
16. Below normal temperatures. Partly cloudy. Thunder in afternoon. Showers early morning, afternoon to early evening. Unofficial reports of golf ball size hail in St. Vital, NW Airline plane hit heavy turbulence between Winnipeg and grand Forks, dropped suddenly leaving a few injured but not seriously. Mostly light winds.
17. Below normal temperatures. Mostly sunny. Light winds.
18. Warm. Sunny becoming cloudy late afternoon. Mostly light winds.
19. Below normal temperatures. Mostly sunny. Mostly light winds.
20. Below normal temperatures. Cloudy clearing early afternoon. Showers in morning. Mostly light winds. Hail damage near Virden.
21. Warm. Mostly cloudy. Thunder in early afternoon. Showers in morning, afternoon and early evening. Mostly light winds. Tornado west of Hargrave, east of Elkhorn. Some farms damaged. Very heavy precipitation near Warren (25 mm in 20 minutes).
22. Above normal temperatures. Mostly cloudy. Mostly light winds.
23. Slightly below normal temperatures. Mostly sunny. Mostly light winds.
24. Below normal temperatures. Mostly sunny. Light winds.
25. Slightly above normal temperatures. Partly cloudy. Thundershowers in afternoon. Unofficial reports of hail in Winnipeg. Local smoke in evening. Mostly light winds.
26. Below normal temperatures. Mostly sunny. Heavy fog in morning. Thundershowers in afternoon. Unofficial reports of hail in Winnipeg. Light winds except for NE gust to 69 Km/h during thunderstorm.
27. Above normal temperatures. Mostly sunny. Light winds.
28. Warm. Mostly sunny. Mostly light winds.
29. Warm. Partly cloudy. Showers in afternoon. Moderate winds.
30. Warm. Mostly cloudy. Showers in morning and afternoon. Light fog in morning. Heavy fog late evening. Mostly light winds.
31. Warm. Mostly cloudy. Heavy fog in morning. Thundershowers in afternoon. Light winds. Hail at Headingly and east of Carman, Manitoba.

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.	12.3	12.2	12.6	12.6	12.2	11.9	11.7	11.6	11.7	12.3	12.8	13.4	14.1	13.5	12.8	15.0	14.6	15.8	16.6	17.1	17.2	16.4	16.4	16.9
2.	17.1	16.9	16.7	16.9	17.3	16.3	16.6	17.5	18.1	18.4	17.3	15.5	11.3	11.5	10.3	10.7	10.8	10.8	13.0	13.4	14.2	13.7	13.9	12.2
3.	11.4	11.6	10.9	10.8	10.7	10.2	10.1	11.7	12.7	14.3	14.7	12.3	11.9	11.3	11.3	11.3	11.3	11.7	10.8	10.8	11.3	12.2	12.0	10.9
4.	10.6	11.0	10.9	10.6	10.4	10.2	10.0	11.4	12.3	12.3	10.5	10.7	10.7	11.3	8.5	10.2	10.2	9.2	9.6	10.3	10.8	11.3	12.2	12.1
5.	11.2	10.5	9.9	9.9	9.9	10.8	10.8	9.9	9.7	10.3	6.8	7.3	7.3	8.0	6.4	8.4	6.8	8.5	8.1	8.0	8.0	7.0	6.8	6.6
6.	7.4	6.5	5.0	4.5	4.0	4.5	5.7	6.9	8.1	6.9	5.8	6.6	6.6	6.2	6.7	7.8	6.9	6.6	6.0	6.0	6.8	8.0	7.8	7.2
7.	7.6	7.2	7.0	6.8	6.8	6.8	7.8	7.9	8.4	8.0	8.9	8.6	8.3	9.5	11.3	13.0	13.1	13.0	12.7	13.2	14.3	14.2	13.7	13.7
8.	14.2	13.5	13.3	13.0	13.0	12.9	13.0	13.6	14.2	15.7	16.9	16.4	17.6	16.3	13.8	18.0	18.8	17.6	16.2	17.1	18.2	17.5	16.6	15.9
9.	16.1	15.0	15.8	15.0	14.1	13.4	14.8	16.4	16.0	15.8	15.3	13.5	12.0	11.8	11.8	11.8	12.7	14.0	14.6	16.1	15.0	14.2	14.2	13.6
10.	13.6	13.2	12.3	11.7	11.7	12.2	12.8	14.2	13.2	14.0	14.0	13.4	15.8	13.3	13.5	14.0	14.2	15.0	13.3	14.2	14.7	13.5	13.9	14.0
11.	13.4	14.2	14.1	13.7	13.4	13.0	13.8	15.2	15.5	15.4	13.8	14.9	13.8	12.1	11.0	10.6	11.8	14.2	14.0	14.0	14.9	16.0	15.9	14.1
12.	13.8	13.6	12.7	12.9	12.9	13.0	13.4	13.8	14.7	12.3	13.2	11.9	12.2	11.9	14.4	15.5	14.9	15.5	14.9	16.5	14.2	11.2	12.4	13.7
13.	13.8	13.7	13.8	13.9	13.8	14.1	14.2	14.6	14.6	14.7	16.3	17.0	17.3	18.8	19.0	18.4	19.8	19.1	18.5	18.5	18.5	18.3	19.8	19.8
14.	19.5	19.2	17.3	15.1	13.4	12.2	12.1	12.5	12.6	12.6	12.3	12.2	12.6	12.7	13.7	13.0	13.0	12.7	13.4	13.8	12.8	13.2	14.2	13.4
15.	12.4	13.4	14.2	13.2	13.0	12.3	11.6	11.7	12.3	11.9	12.4	13.0	13.1	13.2	12.2	12.6	12.7	12.2	13.1	14.0	14.2	14.0	14.0	14.2
16.	13.8	13.6	13.8	13.0	12.0	11.3	12.2	12.9	11.8	11.7	13.0	11.9	12.2	13.0	11.4	11.4	11.2	11.5	12.5	11.4	12.0	11.4	11.1	10.2
17.	10.0	9.7	9.8	9.6	9.7	9.5	10.7	12.8	13.7	12.6	13.8	13.3	13.0	13.5	14.6	13.0	13.0	13.8	13.3	13.0	13.1	13.5	12.6	12.2
18.	11.7	11.3	11.3	11.6	11.4	11.1	11.3	11.7	12.7	13.4	14.4	14.0	14.0	15.3	16.7	14.6	14.2	14.8	14.3	11.3	12.2	12.1	12.3	11.7
19.	11.2	10.1	9.0	9.3	9.1	8.6	9.7	11.3	12.7	10.9	9.9	9.0	9.2	9.8	11.0	9.7	10.3	9.6	11.2	11.0	12.4	12.1	10.3	10.3
20.	9.7	9.2	8.6	8.1	9.0	9.4	9.9	13.1	12.6	13.3	13.9	12.2	14.2	14.6	14.9	14.5	14.9	14.2	15.2	14.8	15.3	14.9	14.4	14.7
21.	13.7	14.4	15.0	15.5	16.0	16.3	16.7	17.2	17.6	18.4	19.9	21.0	21.7	21.2	20.9	21.2	20.9	21.7	22.1	20.4	19.9	19.4	19.9	19.3
22.	18.4	18.6	18.7	18.3	18.5	19.1	19.4	19.8	20.0	19.9	20.2	18.4	17.8	16.6	15.0	13.8	11.3	11.7	11.5	13.0	14.0	13.0	12.7	12.0
23.	11.3	11.3	10.0	9.2	9.0	8.7	9.0	10.3	12.6	13.5	11.6	12.3	12.5	13.4	13.1	13.4	13.6	13.0	13.7	14.3	14.6	13.0	13.2	12.8
24.	13.0	13.0	12.2	11.7	11.0	10.6	13.4	14.4	13.3	11.5	12.2	11.0	11.7	11.2	12.2	11.3	10.9	11.7	12.8	12.7	13.0	13.8	11.9	11.9
25.	11.3	11.5	11.3	11.3	11.5	11.9	12.6	13.4	14.0	14.4	15.0	15.6	16.3	16.0	16.4	14.0	15.0	13.8	14.5	14.7	14.8	15.3	14.5	14.0
26.	11.7	13.0	11.7	11.1	11.6	11.8	13.6	14.9	16.6	16.5	15.2	16.6	15.8	15.4	14.9	15.3	15.6	14.3	16.3	15.6	14.9	15.2	14.6	14.4
27.	14.4	14.7	15.6	14.7	13.6	13.8	14.6	15.9	16.3	16.0	15.8	15.6	15.1	15.0	14.3	14.7	14.1	14.3	13.9	14.9	15.2	15.7	16.5	15.8
28.	15.3	14.9	14.3	13.8	13.5	13.3	13.8	14.3	14.3	16.1	16.6	17.3	15.6	14.3	15.3	16.1	15.5	16.9	17.2	17.8	18.1	17.8	17.5	18.8
29.	16.2	15.9	15.6	15.7	15.8	15.6	15.6	16.0	16.3	16.6	17.2	17.6	17.0	17.0	17.6	18.5	18.1	18.5	18.8	18.6	18.4	18.1	18.2	18.3
30.	18.1	18.2	18.2	18.2	18.1	18.0	18.1	18.2	18.9	19.8	20.0	19.4	19.6	20.3	20.6	21.2	21.8	22.1	22.4	21.0	21.0	20.6	20.0	20.1
31.	20.0	19.0	18.6	18.0	18.0	18.0	18.0	19.4	20.2	20.8	20.6	21.2	20.9	20.6	21.3	20.0	19.9	20.0	17.3	16.4	17.6	17.4	16.6	16.7

MEAN 13.4 13.2 12.9 12.6 12.4 12.3 12.8 13.6 14.2 14.2 14.2 14.0 14.0 14.1 13.9 14.0 13.9 14.0 14.3 14.2 14.5 14.3 14.2 13.9

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	13.9	14.9	11.6	10.8	8.6	6.4	10.0	15.8	14.2	13.6	13.8	13.6	16.6	13.7	13.0	12.1

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	12.3	17.9	10.3	12.7	18.8	16.3	12.1	12.2	13.9	14.4	15.0	15.7	17.1	19.7	19.0

