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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JULY / JUILLET

1981

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

LAT: 49° 54'N		LONG: 97° 14'W		ELEVATION: ALTITUDE: 239.6		METRES (ASL) MÈTRES (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	cm	km/h		km/h		
1	28.3	17.8	23.1	0.0	18.1	79	49	1	0.4		0.4		36.5	S	S 48*	11.6
2	24.2	16.7	20.5	0.0	15.5	85	54	1	0.4		0.4		19.6	SSW	S 52	5.6
3	27.4	13.1	20.3	0.0	15.3	96	40						7.5	NW	NW 15	13.3
4	29.3	16.0	22.7	0.0	17.7	81	43						16.5	S,SW	SSW24	15.7
5	31.4	17.7	24.6	0.0	19.6	84	34						15.0	S	SSW28	15.1
6	34.0	17.1	25.6	0.0	20.6	67	43						26.4	S	S 52	15.0
7	32.8	22.2	27.5	0.0	22.5	76	57						32.6	S	S 44*	13.4
8	26.7	14.7	20.7	0.0	15.7	75	29		0.2	0.2			28.8	WNW	WNW41*	10.4
9	30.2	12.8	21.5	0.0	16.5	64	24						17.0	WSW	W 26*	15.6
10	29.6	14.0	21.8	0.0	16.8	81	30						10.5	ENE	NE 28	10.4
11	27.1	14.9	21.0	0.0	16.0	95	60	1	8.7	8.7			4.5	CaIm	E 19	6.3
12	30.5	16.1	23.3	0.0	18.3	98	27		Tr.	Tr.			7.5	N,W,*	NNW28	13.0
13	29.8	15.9	22.9	0.0	17.9	83	40						7.4	ENE	ENE24*	12.0
14	24.3	14.6	19.5	0.0	14.5	95	55		0.6	0.6			8.0	SSW	SSW19*	0.7
15	22.4	17.4	19.9	0.0	14.9	94	72	1	12.1	12.1			14.8	S	SSE28	1.3
16	22.8	14.9	18.9	0.0	13.9	96	61		Tr.	Tr.			11.1	WSW*	SSE13*	9.1
17	26.3	12.0	19.2	0.0	14.2	98	43						9.7	WNW	N 20	13.7
18	28.5	14.8	21.7	0.0	16.7	96	41						4.8	NW	NW 11*	13.4
19	29.7	15.2	22.5	0.0	17.5	92	46	1	0.2	0.2			4.5	S	S 11*	13.4
20	20.5	9.4	15.0	3.0	10.0	94	52						14.5	NNE	N 26*	5.2
21	25.0	7.0	16.0	2.0	11.0	90	37						7.9	SSE,S	SSE13*	14.6
22	25.5	11.8	18.7	0.0	13.7	83	45						18.0	S	SSW30	14.6
23	27.3	13.5	20.4	0.0	15.4	94	61	1	2.0	2.0			17.4	S	S 30	10.9
24	20.8	8.3	14.6	3.4	9.6	94	63		Tr.	Tr.			18.5	W	N 31	1.7
25	21.6	5.6	13.6	4.4	8.6	92	33						16.7	NW	NW 31*	13.8
26	24.6	6.4	15.5	2.5	10.5	84	34						8.0	SW,W	NNW17	13.2
27	26.5	9.7	18.1	0.0	13.1	86	37	1	2.2	2.2			12.3	SW	SW 22*	11.1
28	25.7	12.3	19.0	0.0	14.0	87	36						20.4	SSW	SSW35	14.5
29	24.2	13.1	18.7	0.0	13.7	91	68		4.0	4.0			23.0	S	S 37	6.7
30	29.5	16.3	22.9	0.0	17.9	96	54	1	8.2	8.2			17.8	S	S 37	4.9
31	25.3	14.5	19.9	0.0	14.9	96	48						14.9	WNW	WNW33	12.2
MEAN MOYENNE	26.8	13.7	20.3	TOTAL 15.3	TOTAL 474.6	88	46	TOTAL 8	TOTAL 39.0	TOTAL 39.0			15.2	PREVAILING DIRECTION DOMINANTE S	MAXIMUM S 52	TOTAL 332.4
NORMAL NORMALE	25.9	13.5	19.7	20.9	456.9	89	44	6.5	80.3	80.3			16.3	S	52	310.8

  

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	15.3	9.7	20.9	TOTAL FOR MONTH TOTAL DU MOIS	474.6	478.7	456.9	11	6	6	1	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 / ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	15.3	9.7	20.9	ACCUMULATED SINCE APRIL 1 / ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	1038.6	1303.2	1039.0										

UDC 551.506.1 ( ) \*Indicates more than one occurrence of the same speed, but not necessarily the same direction.

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\*other directions

## CLIMATOLOGICAL SUMMARY FOR JULY 1981

AT WINNIPEG, MANITOBA

July was dry with only half the normal amount of rainfall. Temperatures averaged less than 1 degree above normal with wide fluctuations during the month. The highest maximum temperature reached was 34.0°C on the 6th, while a near record breaking minimum of 5.6°C occurred on the 25th. The mean wind was 1.1 km less than normal and sunshine exceeded the usual amount by more than 20 hours.

## DAILY WEATHER SUMMARY FOR JULY 1981

AT WINNIPEG, MANITOBA

All Times Central Standard  
Not Daylight

1. Warm. Mostly sunny. Thunder 2:30 a.m. to 5:04 a.m. Showers 2:30 a.m. to 7:15 a.m. Moderate winds gusting to 70 Km/h in afternoon. Clear Lake reports strong winds up to 100 Km/h. Damage to trees. Lightning late evening. Tornado reported near Grandview, trees uprooted, lots of pea size hail, 120 to 150 mm rain 9:00 p.m. to 9:30 p.m.
2. Above normal temperatures. Partly cloudy. Thunder 2:16 a.m. to 5:45 a.m. Showers 2:14 a.m. to 4:29 a.m. 11:14 a.m. to 1:19 p.m. Mostly light winds but S gust to 70 Km/h in morning.
3. Above normal temperatures. Mostly sunny. Light winds.
4. Warm. Sunny. Mostly light winds but S gust to 35 Km/h in afternoon.
5. Warm. Sunny. Mostly light winds but SSW gust to 35 Km/h in morning.
6. Warm. Sunny. Moderate S winds gusting to 65 Km/h late evening.
7. Warm. Mostly sunny. Moderate winds gusting to 65 Km/h early evening. Golf ball size hail reported at Alexander and Minnedosa. Smaller hail at Kelwood. Strong winds up to 140 Km/h reported near Brandon.
8. Above normal temperatures. Cloudy. Clearing early afternoon. Showers 9:05 a.m. to 10:01 a.m. Moderate winds gusting to 57 Km/h in morning. Lightning in morning.
9. Above normal temperatures. Sunny. Mostly light winds but W gust to 43 Km/h in afternoon.
10. Above normal temperatures. Cloudy clearing early afternoon. Lightning late evening. Mostly light winds but E gust to 37 Km/h in afternoon.
11. Near normal temperatures. Partly cloudy. Thunder 5:37 a.m. to 7:12 a.m. 7:28 p.m. to 7:45 p.m. 5:50 p.m. to 8:12 p.m. Showers 5:46 a.m. to 10:03 a.m. 5:41 p.m. to 8:17 p.m. Light winds.
12. Above normal temperatures. Mostly sunny. Showers 8:28 a.m. to 8:36 a.m. Light winds.
13. Above normal temperatures. Mostly sunny. Mostly light winds but ENE gust to 31 Km/h late afternoon. Unconfirmed reports of funnel clouds near Morris and Winkler.
14. Near normal temperatures. Cloudy. Showers 1:12 p.m. to 4:10 p.m. 10:55 p.m. to 11:10 p.m. Light winds.
15. Near normal temperatures. Mostly cloudy. Thunder 8:36 p.m. to 9:21 p.m. Showers 2:50 a.m. to 4:13 a.m. Drizzle 8:03 a.m. to 1:11 p.m. Showers 7:38 p.m. to 9:21 p.m. Mostly light winds but SSE gust to 35 Km/h in afternoon. Unconfirmed report of tornado near Notre Dame Manitoba. Graineries blown over.
16. Below normal temperatures. Partly cloudy. Showers 1:03 p.m. to 4:12 p.m. Light fog in morning. Visibility restricted. Lightning late evening. Mostly light winds but SSE gust to 35 Km/h early morning.
17. Near normal temperatures. Mostly sunny. Light winds. Heavy fog in morning. Visibility restricted.
18. Above normal temperatures. Mostly sunny. Light winds.
19. Above normal temperatures. Sunny becoming cloudy late afternoon. Thunder 3:25 p.m. to 4:07 p.m. Showers 3:10 p.m. to 4:05 p.m. Light winds. Huge forest fire involving 75,000 acres 20 Km E of Thompson about 480 fire fighters involved.
20. Below normal temperatures. Cloudy. Clearing mid afternoon. Mostly light winds but N gust to 33 Km/h in morning.
21. Below normal temperatures. Mostly sunny. Light winds.
22. Below normal temperatures. Mostly sunny. Mostly light winds but S gust to 46 Km/h in morning.
23. Normal temperatures. Partly cloudy. Thunder 8:10 p.m. to 8:54 p.m. Showers 8:15 p.m. to 8:32 p.m. \$53,000 motor home parked at Wellington Crescent destroyed by lightning. Mostly light wind but S gust to 41 Km/h in evening.
24. Cool. Cloudy. Showers 10:40 a.m. to 11:13 a.m. 5:04 p.m. to 6:21 p.m. Mostly light winds but N gust to 50 Km/h in late afternoon. Heavy downpour near Thompson quelled forest fires.
25. Cool. Mostly sunny. Mostly light winds but NNW gust to 50 Km/h in afternoon.
26. Cool. Mostly sunny. Mostly light winds but N gust to 39 Km/h in afternoon.
27. Below normal temperatures. Mostly sunny. Thunder 3:15 p.m. to 3:35 p.m. 5:19 p.m. to 5:27 p.m. Showers 3:28 p.m. to 6:19 p.m. Mostly light winds but SW gust to 35 Km/h late afternoon.
28. Near normal temperatures. Mostly sunny. Moderate winds gusting to 48 Km/h in afternoon.
29. Slightly below normal temperatures. Sunny becoming cloudy late morning. Rain 12:54 p.m. to 3:35 p.m. Moderate winds gusting to 43 Km/h in morning.
30. Warm. Partly cloudy. Thunder 5:27 p.m. to 9:20 p.m. Showers 5:37 p.m. to 9:13 p.m. Mostly light winds but W gust to 76 Km/h early evening. Precipitation and wind variable throughout city. Storm levelled Fort Richmond house under construction, felled trees. Lightning hit a few houses, numerous power outages occurred. Hail reported at Miami and at Starbuck Manitoba. Fog in morning. Visibility restricted.
31. Slightly above normal temperatures. Mostly sunny. Mostly light winds but WNW gust to 44 Km/h in afternoon.

HOURLY WEATHER TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY 1981

LOCAL STANDARD TIME

ALL TEMPERATURES IN DEGREES CELSIUS

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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.	16.4	16.0	15.8	15.8	15.8	15.8	15.7	15.6	16.0	18.0	19.0	20.3	21.0	20.9	20.6	19.7	20.0	20.0	20.0	20.0	19.5	19.0	18.5	18.5
2.	17.8	17.4	15.9	15.8	15.7	15.7	15.8	16.4	17.1	18.0	19.3	17.5	16.1	16.3	16.0	17.7	18.8	19.5	19.1	19.8	19.2	17.3	16.1	16.3
3.	15.3	14.8	14.2	13.3	13.7	12.7	13.9	17.2	17.9	17.7	17.5	18.1	19.5	18.5	18.3	18.9	20.0	17.4	17.3	17.7	16.8	16.4	16.4	15.7
4.	15.3	15.8	15.3	15.2	14.2	14.1	14.7	16.0	17.3	17.8	19.2	20.0	19.4	19.6	19.7	19.8	19.9	19.9	20.1	20.3	20.1	19.4	18.9	18.2
5.	17.7	17.6	17.3	17.1	16.9	16.4	16.8	17.6	19.0	19.6	20.5	22.0	22.3	21.0	20.9	19.2	19.9	19.4	20.5	20.5	20.5	19.6	18.1	15.9
6.	14.7	14.5	13.9	14.4	13.4	13.3	13.8	14.5	17.0	19.5	22.0	24.5	24.8	25.2	24.6	25.4	24.9	23.9	23.2	24.4	23.7	22.3	21.5	21.0
7.	20.8	20.4	19.9	19.7	19.4	19.2	19.1	20.0	21.0	21.0	21.6	22.9	23.7	24.1	24.1	25.2	25.3	25.3	24.8	23.8	22.8	22.4	22.0	21.6
8.	21.3	21.2	21.1	21.0	20.5	19.0	18.3	17.0	14.5	12.5	11.4	12.7	13.0	14.0	13.5	14.2	14.0	14.0	14.0	14.5	14.0	13.0	12.2	11.7
9.	10.9	10.3	10.1	9.9	9.3	8.9	9.1	10.8	11.8	13.6	15.1	14.5	15.0	15.9	17.5	20.0	19.3	16.8	15.6	15.3	15.5	15.5	15.2	14.7
10.	14.4	14.2	12.9	12.1	12.5	11.8	13.0	14.1	15.4	16.3	16.7	16.7	17.2	17.5	16.0	16.8	16.0	18.7	19.4	16.7	15.9	15.7	15.2	14.7
11.	17.6	14.5	14.5	14.9	13.6	13.8	15.5	14.5	15.9	17.3	17.5	18.1	19.1	20.5	20.5	20.4	20.7	21.7	21.3	20.8	21.2	20.7	20.0	18.6
12.	16.4	18.5	18.0	17.6	16.2	16.0	17.3	18.2	18.7	18.6	18.9	18.9	18.5	19.7	17.7	17.2	17.0	17.2	18.2	18.2	18.9	16.7	16.6	16.3
13.	16.5	15.0	14.7	14.6	15.5	15.5	16.1	16.2	16.7	18.4	20.4	21.0	21.3	22.7	21.1	20.7	19.8	18.1	18.0	17.3	17.5	18.0	17.6	16.8
14.	15.5	14.6	14.0	13.5	13.5	14.8	16.6	17.5	17.8	17.9	18.0	18.5	18.1	18.1	19.0	19.7	19.0	19.2	18.7	18.7	18.5	18.7	18.3	18.7
15.	16.4	18.2	17.8	17.7	17.8	17.1	17.0	16.5	16.8	16.6	16.8	16.9	16.8	17.3	17.9	17.2	17.2	18.0	17.5	17.0	17.0	17.4	16.6	16.5
16.	16.5	15.8	15.9	16.1	16.0	14.9	14.3	14.2	15.6	16.2	16.4	16.8	17.2	16.9	17.6	16.7	16.5	17.3	16.8	17.0	17.0	17.4	16.6	16.5
17.	14.4	14.2	12.0	12.3	12.1	12.0	12.9	14.3	16.0	16.8	16.9	18.0	17.3	17.5	18.7	17.6	17.3	17.3	18.3	18.9	18.0	19.4	17.0	15.8
18.	15.9	15.5	14.3	14.4	14.5	15.0	15.0	16.5	16.6	17.0	16.4	17.2	17.7	17.9	18.3	18.4	18.6	19.0	18.1	19.3	18.6	17.4	17.0	16.4
19.	16.9	16.6	16.0	16.2	15.3	14.7	16.2	17.3	17.6	19.7	19.2	19.3	20.7	20.6	20.3	19.5	20.2	20.7	20.0	19.5	19.3	18.7	19.0	18.5
20.	17.4	16.4	15.9	14.6	16.6	16.5	15.6	15.0	14.8	14.8	14.6	14.1	14.2	14.0	14.3	14.5	14.3	14.0	13.9	14.0	12.6	11.5	10.3	9.2
21.	8.3	7.4	7.1	7.0	6.7	6.2	8.1	11.2	14.0	14.9	15.0	14.7	14.3	15.0	15.0	15.7	15.1	14.6	15.0	14.7	14.0	13.3	13.2	12.9
22.	12.2	11.0	11.7	11.1	10.7	10.4	11.8	14.0	16.0	16.1	14.7	15.3	16.0	16.3	16.5	16.7	17.0	17.2	16.5	16.1	16.2	14.2	13.2	13.4
23.	13.2	13.0	12.9	12.7	12.8	13.8	14.9	14.8	15.7	16.8	18.2	18.2	18.4	19.5	19.5	19.9	21.0	20.8	20.3	20.7	19.8	19.5	18.5	17.5
24.	16.7	16.1	15.7	15.2	15.1	14.8	15.3	16.8	17.8	17.4	17.4	16.0	16.0	15.8	15.3	15.0	12.6	12.7	12.5	11.5	11.0	10.5	8.8	8.3
25.	7.4	7.6	5.8	5.5	5.7	5.3	7.2	9.5	11.8	13.3	11.7	11.7	12.2	12.3	11.8	11.9	11.4	11.9	10.6	10.8	10.1	8.5	7.6	6.8
26.	6.3	5.8	6.2	6.3	6.3	5.8	6.8	9.5	10.2	12.0	12.7	14.0	12.6	13.2	14.4	13.6	14.1	13.8	14.6	14.1	13.5	13.0	12.6	11.8
27.	11.6	11.2	10.3	9.6	9.1	8.8	9.8	12.2	14.1	15.5	15.8	15.9	16.0	16.0	16.3	16.7	17.0	16.5	15.7	17.2	16.2	15.3	14.1	13.8
28.	13.4	13.2	12.6	12.0	11.5	11.3	11.4	12.4	13.8	15.3	15.7	14.8	15.3	15.2	15.4	15.8	15.7	15.9	15.7	15.1	15.1	15.2	13.8	13.7
29.	12.4	12.2	11.8	12.0	11.9	11.6	12.5	13.9	15.5	16.7	17.0	18.0	18.0	18.2	19.3	19.3	19.2	19.4	19.7	19.3	19.0	18.7	18.4	18.2
30.	17.7	17.0	16.5	16.2	15.8	15.8	16.4	16.5	17.3	18.0	18.3	19.0	21.6	21.5	21.6	21.7	21.3	21.2	20.8	16.9	17.8	17.1	17.5	17.3
31.	17.6	17.2	17.4	17.2	16.5	15.9	16.2	16.9	17.8	17.1	16.2	16.9	17.0	17.7	16.5	17.2	16.9	16.9	16.8	16.1	16.2	15.2	14.2	13.5
MEAN	15.1	14.6	14.1	13.9	13.7	13.4	14.0	15.0	16.0	16.8	17.1	17.5	17.8	18.0	18.0	18.1	18.1	18.0	17.9	17.6	17.3	16.5	16.0	15.5

