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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JULY / JUILLET

1980

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

LAT: 49° 54'N		LONG: 97° 14'W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: 239.6 MÈTRES (NNM)		STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE: STANDARD										
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 BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION	
	°C	°C	°C			%	%		mm	cm	mm	cm	km/h		km/h	HOURS HEURES
1	22.6	8.2	15.4	2.6	10.4	90	33						11.4	NNW	NNW22	14.5
2	30.4	11.7	21.1	0.0	16.1	70	26						15.0	WSW	W 30*	15.2
3	28.0	13.8	20.9	0.0	15.9	81	35	1	1.2		1.2		17.8	NE,ENE	N 41	11.0
4	19.4	12.3	15.9	2.1	10.9	92	71		5.6		5.6		21.6	NE	E 41	3.3
5	25.1	9.1	17.1	0.9	12.1	98	41						7.0	Calm,S	S 19*	13.6
6	28.6	16.6	22.6	0.0	17.6	87	44		Tr.		Tr.		27.1	S	S 37*	7.1
7	25.5	15.1	20.3	0.0	15.3	75	38		Tr.		Tr.		24.5	WNW	NW 41	15.5
8	28.6	10.5	19.6	0.0	14.6	91	31						8.7	W	W 33	10.3
9	33.5	19.0	26.3	0.0	21.3	74	31						13.3	SW	WSW24	13.6
10	31.6	18.2	24.9	0.0	19.9	77	31						11.0	ENE,E,NW	ENE22	14.0
11	29.0	17.6	23.3	0.0	18.3	68	50	1	2.8		2.8		17.3	S	SSE31	8.1
12	29.4	15.7	22.6	0.0	17.6	77	29						14.8	W	WNW28*	15.4
13	34.8	17.5	26.2	0.0	21.2	79	38		Tr.		Tr.		21.5	S	S 33*	5.9
14	24.3	14.5	19.4	0.0	14.4	94	63		0.5		0.5		18.6	N	NNW31	5.6
15	25.2	12.4	18.8	0.0	13.8	98	50		Tr.		Tr.		8.9	N	NNE17*	7.8
16	26.5	14.9	20.7	0.0	15.7	96	51		Tr.		Tr.		14.0	NNW	NNW20*	6.3
17	27.6	14.7	21.2	0.0	16.2	92	44		1.0		1.0		12.4	SSW	SW 33	6.5
18	26.8	15.6	21.2	0.0	16.2	92	32		Tr.		Tr.		20.7	WNW	WNW41	9.4
19	25.0	13.5	19.3	0.0	14.3	88	40		Tr.		Tr.		9.8	W	W 19	4.9
20	22.7	13.2	18.0	0.0	13.0	92	70	1	12.2		12.2		12.8	NNE	NNE31	3.7
21	22.8	13.1	18.0	0.0	13.0	96	41		Tr.		Tr.		12.6	N	NW 30	7.0
22	27.2	12.6	19.9	0.0	14.9	89	34		Tr.		Tr.		3.8	Calm	SSW13*	14.2
23	32.5	16.4	24.5	0.0	19.5	83	37	1					21.6	SSW	SSW41	12.2
24	27.0	9.1	18.1	0.0	13.1	83	33	1					24.3	NNW	NNW41*	12.8
25	23.1	5.5	14.3	3.7	9.3	92	25						7.5	N Calm	N 19	13.9
26	26.2	8.9	17.6	0.4	12.6	81	36		Tr.		Tr.		17.8	SSW	SSW31*	12.1
27	28.3	14.3	21.3	0.0	16.3	86	28		Tr.		Tr.		15.3	NW,WNW	WNW28*	12.1
28	27.0	13.7	20.4	0.0	15.4	89	29	1	Tr.		Tr.		17.6	W,NW	NW 31	14.2
29	31.8	12.4	22.1	0.0	17.1	81	25		Tr.		Tr.		20.4	SSE,S	S 41*	10.3
30	28.4	13.7	21.1	0.0	16.1	84	28	1	0.2		0.2		18.5	WNW	NW 30*	14.6
31	28.6	14.5	21.6	0.0	16.6	73	26		0.2		0.2		16.3	NW	NNW35	11.0
MEAN MOYENNE	27.3	13.5	20.4	9.7	478.7	85	38	TOTAL 7	TOTAL 23.7	TOTAL	TOTAL 23.7		15.6	PREVAILING Hrs W* DOMINANTE	MAXIMUM S41*	TOTAL 326.1
NORMAL NORMALE	25.9	13.5	19.7	20.9	456.9	89	43	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: \*By Km NW

\*Other directions  
DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE:

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	mm					cm				
								0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE
TOTAL FOR MONTH TOTAL DU MOIS	9.7	12.4	20.9	TOTAL FOR MONTH TOTAL DU MOIS	478.7	493.4	456.9	8	5	3	1	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	9.7	12.4	20.9	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	1303.2	945.1	1039.0	8	5	3	1	0	0	0	0	0	0

UDC 551.506.1 ( ) \*Indicates more than one occurrence of the same speed, but not necessarily the same direction.  
 July 23 - Funnel Cloud near Amaranth.  
 July 22 - Funnel cloud 5 to 8 miles N Gillam.  
 July 26 - Tornado reported S Fairford Indian Res. Funnel clouds NE Beausejour and at Libau.

Subscription Price: \$1.00 monthly; \$10.00 per calendar year (January to December)  
 Prix d'abonnement: mensuel \$1.00; annuel \$10.00 (janvier à décembre)

CLIMATOLOGICAL SUMMARY FOR JULY 1980

AT WINNIPEG, MANITOBA

Warm dry weather continued during July. Total precipitation was 23.7 mm-less than one third the normal 80.3 mm. The airport remained one of the driest locations on the prairies. The mean temperature of 20.4 was slightly higher than the normal 19.7. The warmest maximum recorded was 34.8 on the 13th while the lowest minimum was 5.5 on the 25th. Winds were a little lighter than usual and the sun shone 326.1 hours compared to the normal 310.8.

DAILY WEATHER SUMMARY FOR JULY 1980

AT WINNIPEG, MANITOBA

All Times Central Standard  
Not Daylight

1. Below normal temperatures. Mostly sunny. Mostly light winds but WNW gusts to 41 Km in afternoon.
2. Above normal temperatures. Mostly sunny. Mostly light winds but W gusts to 56/Km/h in afternoon.
3. Above normal temperatures. Partly cloudy. Thunder 9:42 p.m. to 10:07 p.m. Showers 9:25 p.m. to 11:15 p.m. Mostly light winds but N gusts to 41 in evening.
4. Below normal temperatures. Mostly cloudy. Showers 1:07 a.m. to 2:09 a.m. Rain 6:49 a.m. to 1:52 p.m. Moderate winds gusting to 52 Km/h in morning.
5. Below normal temperatures. Sunny. Smoke aloft. Light winds. Heavy fog 4:19 a.m. to 5:00 a.m. Light fog till early afternoon.
6. Above normal temperatures. Partly cloudy. Showers 5:10 a.m. to 12:04 p.m. 8:29 p.m. continued. Moderate SSW winds gusting to 61 Km/h. Lightning late evening.
7. Near normal temperatures. Sunny. Showers to 00:37 a.m. moderate WNW winds gusting to 56 Km/h. Lightning in early morning.
8. Near normal temperatures. Partly cloudy. Mostly light winds.
9. Warm. Mostly sunny. Mostly light winds.
10. Warm. Mostly sunny. Mostly light winds. Lightning in the morning.
11. Warm. Partly cloudy. Thunder 6:54 a.m. to 9:09 a.m. Showers 6:42 a.m. to 11:36 a.m. Mostly light winds.
12. Sunny. Mostly light winds. Above normal temperatures.
13. Warm. Partly cloudy. Showers 10:17 a.m. to 10:26 a.m. Moderate winds gusting to 56 Km/h in afternoon.
14. Normal temperatures. Partly cloudy. Showers 3:51 a.m. to 6:43 a.m. Mostly light winds but gusting to 39 Km/h. Lightning in morning.
15. Slightly below normal temperatures. Partly cloudy. Light winds.
16. Slightly above normal temperatures. Partly cloudy. Showers 1:53 a.m. to 2:11 a.m. Mostly light winds.
17. Above normal temperatures. Partly cloudy. Showers 12:01 p.m. to 2:52 p.m. 11:00 p.m. continued. Mostly light winds but SW gusts to 44 Km/h in evening. Lightning late evening.
18. Above normal temperatures. Partly cloudy. Showers to 00:08 a.m. Lightning in early morning. Moderate WNW winds gusting to 63 Km/h in afternoon.
19. Normal temperatures. Mostly cloudy. Showers 4:04 p.m. to 6:38 p.m. Light winds.
20. Below normal temperatures. Thunder 12:31 p.m. to 12:44 p.m. Showers 12:19 p.m. to 3:29 p.m. Precipitation variable from 1.3 mm at East Kildonan to 38.1 mm St. Vital. Mostly cloudy. Mostly light winds.
21. Below normal temperatures. Partly cloudy. Rain 00:53 a.m. to 2:10 a.m. Mostly light winds.
22. Near normal temperatures. Mostly sunny. Showers 10:35 p.m. to 10:45 p.m. Light winds. Funnel cloud reported 5 to 8 miles N of Gillam.
23. Warm. Mostly sunny. Moderate S winds gusting to 74 Km/h in evening. Thunder 7:35 p.m. to 8:03 p.m. Funnel cloud reported at 8 p.m. near Amaranth.
24. Below normal temperatures. Mostly sunny. Thunder 7:34 a.m. to 7:47 a.m. Moderate NNW winds gusting to 67 Km/h in afternoon.
25. Cool. Mostly sunny. Mostly light winds.
26. Below normal temperatures. Mostly sunny. Mostly light winds but SW gusts to 54 Km/h in evening. Lightning late evening. Tornado reported S Fairford Indian Reserve about 5:55 p.m. Funnel clouds reported NE Beausejour and at Libau about 8:30 p.m. Hail reported near Beausejour, Riverton, Gimli. 5 cm on ground 10 miles S Gimli.
27. Above normal temperatures. Mostly sunny. Showers 6:39 p.m. to 6:47 p.m. Light winds. Lightning in early morning.
28. Above normal temperatures. Mostly sunny. Thunder 00:50 a.m. to 1:56 a.m. Shower 1:00 a.m. to 1:20 a.m. Mostly light winds but NW gusts to 50 Km/h in morning.
29. Above normal temperatures. Sunny becoming cloudy late afternoon. Showers 10:35 p.m. to 10:37 p.m. Moderate S winds gusting to 78 Km/h in evening. Lightning late evening.
30. Above normal temperatures. Sunny. Thunder 1:04 a.m. to 1:36 a.m. Showers 1:09 a.m. to 1:34 a.m. Mostly light winds but W gusting to 52 Km/h in morning.
31. Warm. Mostly sunny. Showers 6:09 a.m. to 7:06 a.m. Mostly light winds but NNW gusts to 56 Km/h in afternoon. Some smoke aloft.

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY 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.	12.7	12.0	10.5	8.6	8.2	7.5	8.7	9.8	10.4	11.5	11.3	11.1	12.3	12.3	12.3	12.3	12.5	12.8	12.9	13.0	12.5	11.2	10.7	10.4
2.	10.5	10.4	10.0	9.4	9.2	9.1	9.8	1.2	13.4	14.8	15.9	16.3	16.9	16.1	16.6	17.3	17.9	17.8	17.0	17.3	16.4	15.6	15.0	14.0
3.	13.8	13.1	13.0	11.8	11.6	12.2	13.7	15.1	16.2	17.0	16.8	16.7	17.4	17.4	17.4	17.6	18.2	16.3	13.9	13.5	13.4	13.8	14.6	13.7
4.	13.3	13.6	13.6	13.7	13.7	13.9	14.0	14.0	14.0	14.2	14.5	15.9	15.9	15.3	15.8	16.4	15.8	15.6	15.6	15.5	15.3	13.8	13.7	12.5
5.	11.7	10.4	10.9	10.2	10.1	9.1	9.8	12.4	14.4	15.0	15.7	15.1	16.4	16.4	16.0	16.0	16.7	16.2	16.5	15.5	15.0	14.7	14.7	14.8
6.	15.0	14.6	14.6	14.4	14.5	15.0	15.5	16.6	16.4	16.1	16.6	17.8	18.0	19.0	19.1	20.1	21.2	20.5	20.3	20.3	20.1	20.1	20.4	18.6
7.	18.2	17.8	17.0	16.5	15.7	14.4	13.5	13.9	13.8	14.1	14.0	15.0	15.1	15.6	16.0	16.0	16.1	15.7	15.5	15.2	15.1	14.2	14.0	13.0
8.	12.6	13.0	12.1	11.7	10.1	10.7	11.2	12.8	14.6	15.8	15.4	15.7	15.9	16.6	17.1	16.5	17.1	17.1	17.0	17.1	17.1	17.2	17.1	17.0
9.	16.7	15.6	15.9	16.0	16.0	16.0	16.5	17.5	18.5	19.7	20.0	20.4	20.3	20.4	21.0	20.3	20.2	20.6	20.3	20.3	20.2	19.3	18.0	17.6
10.	17.6	17.4	17.4	16.7	16.8	16.0	16.5	18.2	19.8	19.3	18.9	20.2	19.5	18.6	19.1	19.2	19.1	19.0	18.7	18.3	18.0	15.8	16.6	16.2
11.	15.5	14.7	14.2	14.0	13.7	14.0	14.0	14.0	15.2	15.6	17.0	18.6	19.0	19.7	20.0	21.3	21.3	21.4	21.0	18.7	17.5	17.2	16.2	15.3
12.	15.7	15.2	14.8	14.5	14.4	13.8	14.2	15.4	16.5	16.7	17.5	17.5	17.6	17.4	17.6	17.0	17.4	18.0	18.1	18.5	18.0	17.0	16.5	16.0
13.	15.1	15.0	15.1	14.3	14.0	14.0	14.9	15.5	16.0	18.2	19.5	19.0	20.5	21.6	22.5	22.4	22.1	22.8	21.7	20.7	19.7	19.2	18.0	17.3
14.	17.2	17.5	17.1	16.7	16.6	16.8	16.7	16.6	17.3	17.3	17.3	18.0	18.2	17.9	17.8	18.4	19.0	17.7	16.0	17.0	16.6	15.9	15.9	15.9
15.	14.0	13.5	13.0	13.5	13.2	12.4	12.4	14.3	15.8	16.4	16.8	16.9	16.8	16.9	17.2	17.0	17.0	17.4	17.0	16.8	17.5	17.8	18.0	17.5
16.	16.6	15.9	16.0	16.3	16.3	15.8	15.4	15.8	17.2	17.5	17.5	17.4	18.2	18.7	19.3	18.3	18.3	17.8	17.8	17.7	17.2	16.1	15.1	14.8
17.	14.1	14.8	14.6	14.2	13.7	13.7	15.4	16.9	17.5	17.8	19.2	19.0	18.7	19.2	19.8	18.4	17.6	16.8	17.0	17.0	16.8	16.0	16.0	16.5
18.	16.5	16.5	16.3	16.0	16.2	16.0	16.1	16.3	16.0	16.8	16.6	17.7	15.3	15.8	15.9	15.5	15.0	15.0	14.7	14.1	14.4	13.5	13.1	12.3
19.	12.3	12.4	12.5	12.1	12.0	11.8	12.8	14.5	16.2	16.1	16.3	16.0	16.3	16.6	17.3	16.2	16.1	16.3	16.0	15.8	15.8	15.1	14.9	14.2
20.	14.3	13.6	13.2	12.8	13.4	12.9	13.4	14.8	16.5	16.6	17.0	17.2	17.2	17.5	16.1	15.5	16.0	16.0	15.6	14.7	14.6	14.1	14.0	13.8
21.	13.6	13.3	13.8	14.0	13.9	13.6	13.3	14.1	14.0	14.5	14.4	14.1	13.3	14.2	14.2	14.4	14.0	14.5	14.1	13.5	14.2	14.0	13.4	13.4
22.	12.8	13.0	13.0	12.4	11.6	11.6	12.2	13.7	14.7	15.7	16.0	15.6	16.0	16.7	16.4	16.6	16.3	17.0	17.1	17.2	17.0	16.6	16.4	16.3
23.	16.0	15.4	15.0	15.0	14.7	14.7	15.0	15.1	17.6	19.0	19.4	19.9	20.1	20.5	19.9	20.7	21.5	20.9	20.4	20.4	19.4	19.0	17.7	17.5
24.	17.2	17.3	17.2	17.0	15.7	16.2	16.5	17.2	17.0	16.5	16.0	16.1	16.2	17.3	16.1	14.8	15.7	15.2	15.4	12.1	11.5	10.8	9.9	8.1
25.	7.8	8.0	6.8	5.9	5.4	5.4	6.7	8.6	10.5	11.4	11.0	11.2	11.4	12.1	12.6	12.2	12.6	12.2	11.0	11.3	10.9	9.4	8.6	8.1
26.	8.2	8.7	9.3	9.2	8.9	7.5	8.0	9.2	11.7	13.2	13.3	14.4	14.7	15.2	15.0	15.8	16.3	16.4	16.5	16.2	16.0	15.6	15.1	15.0
27.	15.5	15.0	14.6	14.1	13.7	13.7	13.3	15.2	16.8	17.0	16.5	16.0	15.5	15.2	15.3	15.6	16.2	16.3	15.8	16.2	16.3	13.7	13.7	14.5
28.	14.7	15.0	15.0	13.3	12.7	12.8	12.9	14.4	14.8	15.5	15.6	15.8	15.0	16.2	15.3	15.1	15.1	14.8	14.9	14.2	14.2	12.8	12.6	12.1
29.	11.5	11.5	11.8	10.9	10.6	11.5	12.5	13.7	14.1	15.6	16.0	15.4	17.1	17.2	16.8	17.4	17.4	17.6	17.6	17.6	17.3	17.3	17.8	18.4
30.	18.3	18.1	17.6	16.4	14.1	11.9	11.4	13.0	14.5	14.5	14.9	15.3	15.5	15.1	15.2	16.1	15.4	16.0	15.9	15.4	14.8	13.5	13.4	12.9
31.	12.1	12.5	11.8	10.8	11.5	11.7	12.0	12.3	14.1	15.1	16.3	16.4	16.4	15.6	15.6	16.2	15.9	15.7	16.1	15.7	14.7	13.6	13.9	13.0
MEAN	14.2	14.0	13.8	13.3	13.0	12.8	13.2	14.0	15.3	16.0	16.3	16.5	16.6	16.9	17.0	17.0	17.1	17.0	16.7	16.4	16.0	15.3	15.0	14.5

