



Fisheries and Environment Canada  
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Atmospheric Environment  
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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JULY/JUILLET

1982

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 TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE			
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION		HOURS HEURES		
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h		km/h					
1	26.7	10.4	18.6	0.0	13.6	68	29					18.2	SSE	SSE28*	14.8				
2	23.0	17.0	20.0	0.0	15.0	96	58	1	21.8	21.8		24.0	E	E37	0.4				
3	25.2	16.6	20.9	0.0	15.9	98	64	1				12.0	E	ESE24*	8.3				
4	31.1	16.6	23.9	0.0	18.9	96	43	1	0.6	0.6		16.8	SE	SSE28*	8.4				
5	26.7	17.2	22.0	0.0	17.0	96	54	1	17.6	17.6		14.1	S	ESE26	8.9				
6	24.6	14.0	19.3	0.0	14.3	90	47					20.6	WSW	WNW37	14.1				
7	21.4	10.5	16.0	2.0	11.0	89	42					22.4	WNW	WNW43	15.1				
8	24.3	10.5	17.4	0.6	12.4	86	44					12.7	W	WNW20	10.0				
9	25.8	13.9	19.9	0.0	14.9	92	40		Tr.	Tr.		7.5	SSE	NNE17	8.5				
10	26.5	13.7	20.1	0.0	15.1	88	43					9.1	S	NNW28	11.2				
11	28.0	13.4	20.7	0.0	15.7	94	44					10.3	W	NW20	12.9				
12	30.0	14.1	22.1	0.0	17.1	90	34					12.3	WSW	NNW24*	13.8				
13	20.6	12.5	16.6	1.4	11.6	94	62	1	4.4	4.4		14.3	NNE	NE22	4.3				
14	26.2	8.4	17.3	0.7	12.3	98	51					8.3	SE	SE17	10.4				
15	29.2	20.0	24.6	0.0	19.6	88	55	1	Tr.	Tr.		17.3	SSE	SE22*	7.7				
16	29.1	15.7	22.4	0.0	17.4	91	65	1	23.9	23.9		16.7	SSE	SE33	5.4				
17	22.1	12.4	17.3	0.7	12.3	93	55	1	0.6	0.6		31.4	WNW	WNW52	6.3				
18	22.0	10.0	16.0	2.0	11.0	93	52					13.3	W	WNW20*	15.0				
19	24.6	15.0	19.8	0.0	14.8	87	64					23.8	S	S35	13.9				
20	27.6	16.0	21.8	0.0	16.8	94	44					14.7	N	S26	12.6				
21	23.6	12.7	18.2	0.0	13.2	89	47					12.5	N	NNW22	14.6				
22	23.4	11.9	17.7	0.3	12.7	89	43	1	0.4	0.4		13.1	ESE	SSE33	7.5				
23	26.1	18.1	22.1	0.0	17.1	93	77	1	2.0	2.0		15.2	SSE	SE24*	4.5				
24	28.0	18.7	23.4	0.0	18.4	97	32					15.6	W	W33*	13.2				
25	25.4	13.6	19.5	0.0	14.5	92	47					15.3	WNW	WNW28	11.3				
26	27.7	10.9	19.3	0.0	14.3	98	33					6.4	CALM	NE19	12.2				
27	27.3	15.2	21.3	0.0	16.3	94	48		Tr.	Tr.		10.1	W	NNW26	9.1				
28	28.0	13.5	20.8	0.0	15.8	98	46	1	34.6	34.6		11.8	SW	NNW46	7.5				
29	23.8	12.8	18.3	0.0	13.3	98	59		1.0	1.0		18.7	NNW	NNW37	8.6				
30	26.1	13.6	19.9	0.0	14.9	96	49		Tr.	Tr.		14.3	SSW	SSW28*	8.8				
31	30.5	15.7	23.1	0.0	18.1	92	48					16.1	SSW	N30	8.3				
MEAN MOYENNE	26.0	14.0	20.0	TOTAL 7.7	TOTAL 465.3	92	49	TOTAL 11	TOTAL 106.9	TOTAL 106.9		15.1	PREVAILING DIRECTION DOMINANTE W	MAXIMUM WNW52	TOTAL 307.6				
NORMAL NORMALE	25.9	13.3	19.6	21.1	453.8	89	44	6.5	75.9	75.9		16.0	S	52	315.6				
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 ANNEE EN COURS	PREVIOUS YEAR ANNEE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNEE EN COURS	PREVIOUS YEAR ANNEE 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	7.7	15.3	21.1	TOTAL FOR MONTH TOTAL DU MOIS	465.3	474.6	453.8	10	7	6	4	0	0	0	0	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	7.7	15.3	21.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	1055.9	1038.6	1061.9												

UDC 551.506.1 ( ) \*INDICATES MORE THAN ONE OCCURRENCE OF SPEED  
 THE SAME SPEED, BUT NOT NECESSARILY THE SAME DIRECTION  
 \*OTHER DIRECTIONS AND UNOFFICIAL HAIL AT WINNIPEG ON 13TH, 28TH. \*NEW 30 YEAR NORMAL 1951-1981  
 Subscription Price: \$1.00 monthly; \$10.00 per calendar year (January to December)  
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July temperatures averages near normal. The mean of 20.0°C was 0.4 degrees above the long term normal of 19.6°C. The warmest day was 31.1°C on the 4th with the coldest night 8.4°C on the 14th.

There was nearly double the usual number of thunderstorms, 11 compared to the normal 6.5. This factor produced a much above normal precipitation amount of 106.9 mm, more than 30 mm above the normal 75.9 mm. Over 90% of this total fell on 4 separate days. A severe storm in the evening of the 28th dumped 34.6 mm of rain, causing some basement flooding. Some pea size hail was reported on the west side of the city. A peak wind gust of 91 Km/h was recorded during the storm. Even with the sizeable amount of precipitation during July, it still left the seasonal total since April 1st at 78% of normal.

The wind speed was lighter than usual at 15.1 Km/h. Sunshine totalled 307.6 hours compared to the average 315.6 hours.

DAILY WEATHER SUMMARY FOR JULY 1982

AT WINNIPEG, MANITOBA

All times Central Standard Not Daylight

1. Near normal temp. Mostly sunny. Mostly light winds but SSE gust to 50 Km/h late morning.
2. Above normal temp. Cloudy. Thunder 7:25 A.M. to 8:37 A.M. 6:52 P.M. continued. Showers 7:53 A.M. to 11:10 P.M. drizzle 2:47 P.M. to 3:03 P.M. Man drowned in Wekusko Lake when canoe capsized in rough water. His wife rescued by helicopter after 2 hours in icy water. Moderate winds with E gust to 5.2 Km/h in afternoon. Visibility reduced in showers and light fog in afternoon. Pinawa had 52.5 mm and Arborg 62.6 mm.
3. Above normal temp. Partly cloudy. Thunder showers to 0015 A.M. Light fog in morning. Forest fires in 1982 so far 189, in 1981-297, 1980-690. 9 blazes burning in Man. Only Gods Lake Narrows blaze a problem. 5000 acres destroyed. Man dies when canoe capsized in Winnipeg River near Pointe Du Bois rapids. Light winds but ESE gust to 33 Km/h in evening.
4. Warm. Partly cloudy. Thunder 9:16 P.M. to 11:33 P.M. Showers 6:38 A.M. to 8:16 A.M. 8:58 P.M. to 11:33 P.M. Mostly light winds but S gust to 48 Km/h in afternoon. Heavy precipitation in parts of Southern Manitoba.
5. Warm. Partly cloudy. Thunder 4:35 A.M. to 9:27 A.M. Showers 5:12 A.M. to 9:55 A.M. Mostly light winds but E gust to 43 Km/h in morning. Tornado reported at Oponga Lake in P.M. Hail at Sprague. Landing wheel from plane hits apartment in Winnipeg.
6. Normal temp. Mostly sunny. Mostly light winds but WSW gust to 50 Km/h in afternoon.
7. Below normal temp. Mostly sunny. Moderate winds with WNW gust to 63 Km/h in afternoon.
8. Below normal temp. Mostly sunny. Light winds.
9. Slightly above normal temp. Partly cloudy. Rain 6:18 A.M. to 6:27 A.M. Light winds.
10. Normal temp. Sunny becoming cloudy in afternoon. Mostly light winds but NW gust to 37 Km/h in afternoon.
11. Normal temp. Mostly sunny. Mostly light winds but NW gust to 33 Km/h in afternoon.
12. Above normal temp. Mostly sunny. Mostly light winds but NNW gust to 46 Km/h in afternoon.
13. Below normal temp. Partly cloudy. Thunder 3:55 A.M. to 5:45 A.M. Showers 3:59 A.M. to 10:08 A.M. Unofficial reports of hail in Winnipeg. Mostly light winds but NNE gust to 33 Km/h in morning.
14. Below normal temp. Mostly sunny with light winds.
15. Warm. Partly cloudy. Thunder 10:08 P.M. to 11:20 P.M. Showers 4:03 A.M. to 8:28 A.M. Mostly light winds but SSE gust to 37 Km/h in afternoon. Small hail reported near Deloraine & Melita. Golf ball hail near Grandview. Severe lightning.
16. Warm. Partly cloudy. Thunder 8:50 A.M. to 10:04 A.M. 5:47 P.M. to 7:02 P.M. 9:39 P.M. to 11:05 P.M. Showers 0133 A.M. to 10:04 A.M. 6:04 P.M. to 11:13 P.M. Tornadoes reported near Carberry, Emerson, Melita St. Alphonse, Portage, Cypress River. Baseball hail reported near Brandon, smaller hail reported other areas. Flooding near Swan River. Power outages, crop damage, hydro poles toppled, 100 year old trees blown over or uprooted in a few minutes near Bagot. Very severe lightning. Mostly light winds but WSW gust to 91 Km/h late evening in Winnipeg. Visibility severely restricted in heavy showers late evening. Plane crashed during storm north of Beausejour. Pilot badly injured.
17. Below normal temp. Partly cloudy. Thunder 0024 A.M. to 01:12 A.M. Showers 0024 A.M. to 9:18 A.M. 12:39 P.M. to 35.7 P.M. 6:42 P.M. to 8:10 P.M. Moderate winds with WSW gust to 91 Km/h late morning. Tornado reported in Sandilands Forest Reserve. 60% trees broken, uprooted near Marchand.
18. Below normal temp. Mostly sunny. Mostly light winds but SW gust to 35 Km/h in afternoon.
19. Near normal temp. Mostly sunny. Moderate winds with SSE gust to 48 Km/h in afternoon.
20. Above normal temp. Mostly sunny. Mostly light winds but with S gust to 38 Km/h in early morning, lightning late evening.
21. Below normal temp. Mostly sunny. Mostly light winds but N. gust to 31 Km/h in afternoon.
22. Below normal temp. Partly cloudy. Thunder 9:51 P.M. continues. Rain 2:36 P.M. to 5:41 P.M. Showers 10:16 P.M. continued. Mostly light winds but SSE gust to 46 Km/h late evening
23. Above normal temp. Mostly cloudy. Thunder to 7:38 A.M. Showers to 00:21 A.M. 4:15 A.M. to 7:55 A.M. Rain 12:36 P.M. to 1:23 P.M. 6:24 P.M. to 6:37 P.M. Mostly light winds but SSE gust to 44 Km/h early morning.
24. Warm. Mostly sunny. Mostly light winds but W gust to 44 Km/h in afternoon. In early morning Emerson deluged with 93.6 mm precipitation over 80 mm fell in about 1 hour. Basement flooded, pumping station knocked out, crops damaged with high winds.
25. Normal temp. Mostly sunny. Mostly light winds but WNW gust to 35 Km/h in afternoon.
26. Near normal temp. Mostly sunny but light fog in morning. Light winds.
27. Above normal temp. Partly cloudy. Light showers or rain 4:50 A.M. to 7:50 A.M. Mostly light winds but NNW gust to 39 Km/h in afternoon.
28. Above normal temp. Partly cloudy. Thunder 1:58 P.M. to 9:50 P.M. Showers sometimes heavy 2:25 P.M. to 9:45 P.M. Mostly light winds but NNW gust to 91 Km/h in evening. Some flooded basements and power outages. Unofficial reports of hail in Winnipeg. Hail also reported in Russell with some damage. Gilbert Plains, Grandview, Roblin (golf ball size) Winnipegosis, Dauphin, St. Rose.
29. Below normal temp. Partly cloudy. Rain 7:15 A.M. to 7:37 A.M. Light fog in morning. Mostly light winds but NW gust to 52 Km/h in afternoon.
30. Near normal temp. Partly cloudy. Rain or showers 4:56 P.M. to 5:15 P.M. Mostly light winds but S gust to 43 Km/h in afternoon.
31. Warm. Partly cloudy. Mostly light winds but N gust to 44 Km/h in afternoon. Smoke aloft from forest fires in Alberta and B.C.

1982

INTERNATIONAL AIRPORT FOR THE MONTH OF JULY

HOURLY WETBULB TEMPERATURES AT WINNIPEG

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.	9.2	9.4	9.1	8.4	8.4	8.0	9.8	11.6	12.5	13.1	13.6	13.6	14.0	14.4	14.6	15.0	15.0	15.0	14.5	14.5	14.3	13.8	13.8	13.8
2.	13.6	13.8	13.8	14.2	14.6	14.7	15.0	15.6	16.4	16.8	18.6	20.2	19.8	17.4	16.8	16.7	16.6	16.9	16.9	16.6	16.7	16.6	16.7	16.8
3.	16.9	17.2	17.0	16.7	16.4	16.3	16.5	16.2	16.7	17.0	17.0	17.0	17.8	18.5	19.6	19.5	20.1	20.0	20.0	20.0	19.5	18.7	17.6	17.2
4.	17.0	16.7	16.7	16.4	16.4	16.0	15.6	15.8	17.0	17.6	19.6	20.1	21.1	21.3	21.5	21.4	21.4	21.7	21.1	18.5	19.7	18.6	18.8	19.0
5.	18.4	17.2	16.9	16.8	17.3	17.2	17.0	17.4	17.1	17.0	17.3	16.7	18.8	19.6	19.5	20.9	20.7	20.6	20.2	20.7	20.1	20.1	20.0	18.8
6.	16.7	14.8	13.8	13.0	12.5	12.2	12.7	13.7	15.0	15.7	16.4	16.5	17.6	17.3	17.0	17.9	16.3	16.1	15.8	16.0	15.9	14.5	14.0	14.8
7.	13.0	11.4	10.7	10.6	10.6	9.5	9.5	9.9	10.8	12.8	13.1	13.9	12.7	12.5	13.3	13.9	13.9	14.4	14.2	14.0	14.4	13.2	13.0	12.6
8.	11.0	11.0	11.5	11.2	10.4	9.4	10.0	11.9	13.7	14.3	14.8	15.3	14.7	15.0	15.6	15.1	15.2	15.8	15.2	16.4	15.4	14.8	14.6	14.3
9.	13.8	13.4	13.0	14.0	14.0	14.0	14.3	14.8	15.5	15.9	16.2	16.3	15.1	15.9	16.5	16.7	16.9	17.2	16.6	16.5	15.9	15.0	15.0	14.7
10	15.0	13.5	12.5	12.7	12.4	13.0	13.0	14.7	14.7	14.5	15.0	16.2	16.4	17.0	16.8	18.7	16.5	16.5	16.2	16.3	16.3	16.2	16.0	15.0
11	14.8	13.8	13.3	13.4	13.0	13.1	13.7	15.0	17.0	17.8	18.0	17.7	18.3	18.0	18.7	18.5	19.2	17.8	18.0	18.8	18.2	18.0	17.3	16.9
12	16.4	16.3	15.8	15.0	15.0	13.3	14.5	15.4	18.0	18.2	18.4	19.3	20.6	20.5	19.0	19.2	17.7	18.6	18.7	18.5	18.3	18.0	17.4	16.8
13	16.3	15.0	14.5	14.4	14.8	14.5	15.0	15.2	14.8	14.7	14.9	15.5	16.0	16.4	15.9	15.7	15.3	15.3	14.8	14.8	14.3	13.5	12.2	11.8
14	11.8	10.3	9.2	8.7	8.4	9.8	11.1	13.5	14.6	15.5	16.5	17.4	18.1	17.2	17.8	17.6	18.2	18.3	18.5	18.8	18.3	18.1	18.2	18.2
15	17.9	17.8	17.7	18.0	18.3	18.6	18.8	19.5	20.0	19.8	20.2	20.5	21.0	22.0	21.8	21.5	22.0	22.2	22.4	22.1	22.3	22.1	21.9	21.2
16	20.7	19.6	19.4	19.3	19.0	18.9	18.8	19.0	19.2	19.5	19.6	21.5	21.5	21.5	22.3	23.4	23.0	23.3	24.0	24.5	24.2	18.9	19.0	16.2
17	16.7	16.9	17.1	14.9	13.4	12.1	12.1	12.0	13.0	13.4	13.3	14.8	15.0	15.5	16.5	16.3	16.2	15.8	15.0	14.6	13.3	11.9	11.6	11.5
18	10.8	10.6	10.2	10.2	9.8	9.2	10.0	11.6	13.1	14.2	14.0	14.7	14.5	15.0	14.5	15.4	15.3	15.1	15.9	15.8	15.6	15.0	14.8	14.7
19	14.2	13.5	13.2	13.2	12.8	13.0	13.0	14.3	15.6	16.7	17.4	17.4	17.9	18.3	18.6	18.9	18.8	19.4	18.9	19.0	18.7	17.2	17.8	17.3
20	17.2	17.0	16.5	16.4	16.4	16.4	16.0	17.4	19.0	20.3	20.6	20.1	20.5	21.0	20.3	19.9	20.0	18.2	18.0	19.2	17.0	16.8	15.6	14.5
21	13.8	14.4	13.5	13.0	12.3	12.3	12.3	13.1	13.2	13.8	14.0	15.0	14.6	15.4	15.1	15.3	15.9	15.8	15.9	15.6	15.6	14.5	13.4	12.7
22	12.4	12.1	11.5	11.6	11.9	11.0	12.6	12.9	12.9	13.8	14.8	14.8	14.7	15.3	15.8	16.3	17.4	16.9	17.3	17.6	17.2	16.2	15.7	15.9
23	16.3	16.6	16.9	17.2	17.0	17.5	17.5	17.8	18.2	19.0	19.5	21.2	20.0	20.4	21.1	22.1	22.3	22.9	22.4	22.0	21.0	21.4	21.7	21.1
24	20.3	20.6	20.8	20.5	19.9	20.0	19.7	19.3	19.2	18.6	18.5	18.0	16.8	18.1	16.9	16.6	16.8	16.5	17.8	18.2	17.0	16.4	16.0	15.4
25	15.0	14.5	14.0	13.9	13.3	14.1	14.3	14.5	15.9	17.2	16.8	17.5	16.3	16.7	17.1	17.0	16.4	15.7	16.1	16.4	16.3	15.5	14.6	14.0
26	13.9	13.8	12.4	11.5	12.0	12.7	13.6	14.5	15.7	16.3	17.0	16.5	17.4	18.0	18.2	18.2	16.8	16.3	18.0	17.5	17.0	16.4	16.6	16.0
27	16.5	16.0	15.4	15.7	15.6	15.7	16.0	15.1	16.8	17.1	17.4	17.6	17.0	18.0	18.7	18.6	18.0	19.0	18.2	18.0	17.5	16.5	15.5	14.6
28	14.8	15.0	14.5	14.4	14.0	13.3	14.8	16.5	17.1	18.0	18.8	19.2	18.6	18.8	18.0	18.5	19.7	18.8	16.5	16.4	14.2	14.9	14.9	14.5
29	14.0	14.0	12.6	13.1	13.0	13.5	14.7	15.2	15.6	16.0	16.6	17.0	16.6	17.0	17.7	17.0	18.4	17.2	18.2	17.4	16.9	16.1	16.1	15.5
30	15.0	14.8	14.0	13.2	13.9	13.6	13.0	14.4	15.9	17.0	17.3	17.6	18.0	17.1	18.0	18.0	18.0	18.8	19.3	19.0	19.0	18.5	17.9	17.5
31	17.0	16.8	16.0	15.8	15.9	15.3	15.3	15.3	15.8	17.0	18.8	21.1	21.0	21.3	21.7	21.0	21.5	19.4	18.8	18.4	17.7	17.3	16.3	15.8
MEAN	15.2	14.8	14.3	14.1	14.0	13.8	14.2	14.9	15.8	16.4	16.9	17.4	17.5	17.8	17.9	18.1	18.0	17.9	17.9	17.8	17.3	16.6	16.3	15.8

MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	12.5	16.3	17.9	18.7	18.6	15.3	12.4	13.6	15.3	15.2	16.6	17.5	14.8	15.2	20.4	20.7

MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	14.3	13.3	16.5	18.1	14.2	14.5	19.7	18.2	15.5	15.7	16.9	16.4	15.8	16.6	17.9

