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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JUNE/JUIN

19 82

AT/A WINNIPEG INT'L AIRPORT / A L'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 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	14.0	2.1	8.1	9.9	3.1	88	36		Tr.		Tr.		28.0	N	N41	9.2				
2	18.1	1.0	8.6	9.4	3.6	91	28						3.9	CALM	SSW 11	13.2				
3	25.5	4.2	14.9	3.1	9.9	67	20						23.4	S, SW	WSW 33*	15.1				
4	24.5	9.8	17.2	0.8	12.2	62	33		0.2		0.2		23.4	S	S33	10.1				
5	23.3	14.3	18.8	0.0	13.8	78	47	1	2.0		2.0		37.6	S	S59	5.7				
6	16.3	10.7	13.5	4.5	8.5	98	64	1	34.9		34.9		19.5	SSE	SSE 37	0.0				
7	13.5	3.3	8.4	9.6	3.4	98	61		1.9		1.9		28.8	NW	NW 50	3.8				
8	10.8	1.1	6.0	12.0	1.0	94	59						11.0	N	NNE 20	4.2				
9	15.6	6.7	11.2	6.8	6.2	95	58		4.6		4.6		14.3	NNW	NNW24	6.0				
10	23.5	4.2	13.9	4.1	8.9	92	27		0.4		0.4		17.3	W	WSW 30*	14.1				
11	18.1	6.5	12.3	5.7	7.3	85	28		Tr.		Tr.		20.6	NNW	NW 33	15.2				
12	24.1	4.0	14.1	3.9	9.1	83	26		0.2		0.2		18.4	W	NW 37	12.0				
13	24.0	8.0	16.0	2.0	11.0	91	38	1	Tr.		Tr.		11.6	CALM	NNE 31	8.6				
14	21.4	7.9	14.7	3.3	9.7	98	34						20.1	NNE	NNE 33	15.4				
15	20.2	4.0	12.1	5.9	7.1	85	31						12.0	NNE	NNE 19*	14.8				
16	24.3	9.6	17.0	1.0	12.0	75	42		1.2		1.2		23.0	NNE	N 41*	9.3				
17	16.0	3.6	9.8	8.2	4.8	88	43						16.2	N	N 26	6.7				
18	18.4	8.9	13.7	4.3	8.7	81	37		Tr.		Tr.		10.1	WNW	WNW 19*	6.4				
19	14.5	8.8	11.7	6.3	6.7	95	62		4.8		4.8		17.2	S, SSW	E 28	4.5				
20	21.9	8.9	15.4	2.6	10.4	95	31	1	0.4		0.4		21.1	NW	NW 37	13.9				
21	20.6	5.7	13.2	4.8	8.2	87	40						15.0	NNE	NNE 26*	13.0				
22	22.9	5.0	14.0	4.0	9.0	88	39						11.8	S, SSE	S 24	11.5				
23	27.1	13.3	20.2	0.0	15.2	94	54	1	2.2		2.2		22.7	S	S 37	7.3				
24	19.7	6.0	12.9	5.1	7.9	94	32		0.3		0.3		27.8	NNW	N 41*	10.3				
25	22.5	3.9	13.2	4.8	8.2	88	31						8.3	S	S 20	13.5				
26	26.2	10.7	18.5	0.0	13.5	88	38	1	1.1		1.1		15.7	S	SSW 24*	10.0				
27	24.8	9.1	17.0	1.0	12.0	98	22	1					14.6	NW	WNW 33*	12.1				
28	21.5	7.7	14.6	3.4	9.6	80	36		Tr.		Tr.		13.0	NNE	NNE 30	7.5				
29	20.4	4.5	12.5	5.5	7.5	87	29						11.3	N	N 20	15.7				
30	24.0	4.2	14.1	3.9	9.1	83	25						6.2	N	SSW15	15.2				
31														SW						
MEAN MOYENNE	20.6	6.5	13.6	135.9	257.6	88	38	7	54.2		54.2		17.5	N*	S59	304.3				
NORMAL NORMAL	23.1*	10.5**	16.8*	69.9*	354.3*	88	44	5.3	80.1*	Tr.*	80.1*		18.1*	S	S*	276.*				
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS												DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:				DAYS WITH SNOWFALL: JOURS AVEC CHÛTE 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	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		135.9	65.8	69.9	TOTAL FOR MONTH TOTAL DU MOIS		257.6	329.3	354.3											
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET		5843.3	5401.8	5923.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL		590.6	564.0	608.1	13	8	5	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

\* NEW 30 YR. NORMALS 1951-1980

Subscription Price: \$1.50 monthly; \$18.00 calendar year (January to December)  
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\* BY KM5 SOUTH RENEWALS EFFECTIVE  
BY HRS. NORTH JANUARY 1/82

## CLIMATOLOGICAL SUMMARY FOR JUNE 1982

## AT WINNIPEG, MANITOBA

June was a cool month. The average mean temperature of 13.6°C was the third coldest since 1872. The average minimum of 6.5°C was the second lowest on record. The lowest was 5.9 set in 1969. The warmest day was the 23rd with a maximum of 27.1°C, while the coldest night was the 2nd with -1.0°C.

Precipitation was below normal with a total of 54.2 mm. Over half of the amount fell on the 6th.

Sunshine was above average with a total of 304.3 hours. The average wind was a little below normal at 17.5 km/h.

## DAILY WEATHER SUMMARY FOR JUNE 1982

## AT WINNIPEG, MANITOBA

All times Central Standard Not Daylight

1. Cool. Partly cloudy. Rain 4:58 to 5:03 A.M. Moderate winds with NNW gust to 56 km/h in morning.
2. Cool. Mostly sunny. Light winds.
3. Near normal temp. Mostly sunny. Moderate winds with WSW gust to 56 km/h in afternoon.
4. Above normal temp. Partly cloudy. Showers 9:10 P.M. to 10:06 P.M. Moderate winds with SSW gust to 59 km/h in afternoon. Strong winds, very heavy rain, moth ball hail at Hodgson, Manitoba.
5. Above normal temp. Partly cloudy. Thunder 9:56 P.M. to 10:11 P.M. Showers 00:48 A.M. to 01:37 A.M. Rain 8:40 A.M. to 2:22 P.M. Showers 2:39 P.M. to 3:04 P.M., 9:27 P.M. to 11:13 P.M. Three people drowned when severe storm on Lake Dauphin hit their boat with high waves and 83 km/h winds. At Winnipeg winds were moderate with S gust to 83 km/h.
6. Below normal temp. Cloudy. Thunder 9:45 A.M. to 10:43 A.M., 7:42 P.M. to 9:15 P.M. Rain 8:04 A.M. to 8:19 A.M. Showers or rain sometimes heavy 9:25 A.M. to 10:26 P.M. Light fog late morning to mid evening. Visibility reduced. Mostly light winds but SSE gust to 65 km/h in evening. Severe rain in South Manitoba - 81 mm in Steinbach area. Hail at Birtle left ground white.
7. Cool. Mostly cloudy. Rain 01:39 A.M. to 9:32 A.M. Moderate winds with NW gust to 72 km/h in morning.
8. Cool. Sunny becoming cloudy mid morning. Light wind.
9. Below normal temp. Partly cloudy. Light rain 00:43 A.M. to 12:35 P.M. Drizzle 02:36 A.M. to 4:54 A.M. Mostly light winds but NW wind to 39 km/h in afternoon.
10. Below normal temp. Mostly sunny. Rain showers 10:04 P.M. to 11:13 P.M. Mostly light winds but WNW gust to 63 km/h late evening.
11. Below normal temp. Mostly sunny. Showers 1:28 A.M. to 1:37 A.M. Moderate NNW winds and gust to 67 km/h in afternoon.
12. Below normal temp. Partly cloudy. Rain 5:41 A.M. to 8:31 A.M. Mostly light winds but NW gust to 61 km/h in afternoon.
13. Near normal temp. Partly cloudy. Thunder 11:36 A.M. to 12:11 P.M. 4:39 P.M. to 5:04 P.M. Showers 12:07 P.M. to 7:47 P.M. Mostly light winds but SW gust to 39 km/h in afternoon.
14. Below normal temp. Mostly sunny. Moderate winds with NNE gust to 56 km/h in late morning.
15. Below normal temp. Mostly sunny. Mostly light winds but NNE gust to 35 km/h late morning.
16. Slightly below normal temp. Cloudy becoming mostly sunny mid morning. Showers or rain 03:44 A.M. to 6:20 A.M. 3:27 P.M. to 3:31 P.M. Moderate winds with N gust to 56 km/h in afternoon.
17. Cool. Partly cloudy. Mostly light winds but NNE gust to 43 km/h in early afternoon.
18. Below normal temp. Partly cloudy. Showers 9:54 A.M. to 10:06 A.M. 1:07 P.M. to 1:55 P.M. Mostly light winds but N gust to 35 km/h in afternoon.
19. Cool. Mostly cloudy. Rain 4:55 A.M. to 10:54 A.M. Drizzle 10:22 A.M. to 10:54 A.M. 1:29 P.M. to 3:12 P.M. Showers 10:54 A.M. to 12:08 P.M. Light fog morning and afternoon. Mostly light winds but SSE gust to 37 km/h in morning.
20. Below normal temp. Sunny becoming cloudy late morning. Thunder 11:50 A.M. to 12:11 P.M. Showers 11:56 A.M. to 3:35 P.M. Moderate winds with NW gust to 57 km/h in afternoon.
21. Below normal temp. Mostly sunny. Mostly light winds but N gust to 41 km/h in early afternoon.
22. Below normal temp. Mostly sunny. Mostly light winds but S gust to 35 km/h in afternoon. 2 men killed when aircraft crashed into Artery Lake 56 km NE of Bissett.
23. Above normal temp. Partly cloudy. Thunder 9:20 P.M. to 10:11 P.M. Showers 7:34 P.M. to 10:31 P.M. Moderate winds with S gust to 52 km/h in early afternoon.
24. Cool. Mostly sunny. Rain 00:30 A.M. to 01:10 A.M. Drizzle 01:25 A.M. to 01:55 A.M. Moderate winds with NNW gust to 69 km/h in afternoon.
25. Cool. Mostly sunny. Light winds. Some gardens ruined by frost in Southern Manitoba especially at Sprague.
26. Normal temp. Sunny becoming cloudy early afternoon. Thunder 10:44 P.M. continued. Showers 1:50 P.M. to 3:12 P.M. 10:59 P.M. to 11:20 P.M. Man drowned when canoe capsized near Hecla Island. Mostly light winds but SSW gust to 39 km/h in morning.
27. Below normal temp. Mostly sunny. Thunder to 00:19 A.M. Mostly light winds but WNW gust to 56 km/h in afternoon.
28. Below normal temp. Partly cloudy. Rain 3:52 A.M. to 4:37 A.M. Mostly light winds but N gust to 39 km/h in afternoon.
29. Cool. Mostly sunny. Mostly light winds but NNE gust to 37 km/h in afternoon.
30. Below normal temp. Mostly sunny. Light winds

HOURLY WETBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE

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.	4.0	4.0	3.9	3.2	3.1	3.0	3.0	3.6	3.6	4.2	4.5	5.2	5.7	5.8	6.1	6.2	7.0	7.0	5.9	6.2	5.2	5.1	5.0	2.2
2.	1.0	3.5	5.1	1.6	-1.8	2.0	2.0	5.4	6.7	7.1	6.9	7.4	7.4	8.2	8.2	7.7	8.3	8.0	8.2	8.1	7.7	6.1	5.0	4.9
3.	4.3	4.1	3.0	3.0	2.5	3.1	4.0	6.8	9.0	10.4	11.8	12.8	12.3	12.5	11.8	12.0	12.2	12.2	11.9	11.3	10.7	10.0	9.3	8.5
4.	8.0	7.7	7.7	7.7	7.4	6.4	7.4	9.2	10.8	12.0	13.1	14.2	14.4	14.2	14.1	13.6	13.9	14.0	14.0	13.8	13.4	13.2	13.4	12.5
5.	11.9	12.0	11.3	10.7	10.4	10.2	10.5	11.0	12.1	12.3	13.5	14.5	14.9	15.1	15.4	14.9	16.1	16.7	16.1	15.4	15.1	14.5	12.7	12.5
6.	12.2	12.0	11.2	11.9	11.4	11.3	11.3	11.4	11.5	12.3	12.5	12.8	12.9	13.1	13.0	12.9	13.0	13.3	13.7	14.3	13.9	12.3	10.9	10.6
7.	11.1	10.7	10.8	11.8	12.6	13.0	9.8	9.3	8.3	8.1	7.5	7.5	7.8	7.6	7.4	7.4	7.0	7.6	7.4	6.8	6.4	5.1	4.1	3.2
8.	2.8	1.9	1.5	2.9	2.7	1.9	3.3	5.1	5.6	5.0	5.6	6.0	6.4	6.4	6.5	7.1	7.1	6.9	7.0	6.7	6.6	6.3	6.7	6.7
9.	6.5	6.8	7.0	6.8	6.5	6.5	6.8	7.0	7.0	7.5	7.8	8.4	8.7	10.4	10.5	10.1	10.5	10.5	10.4	10.5	10.4	9.1	7.8	7.8
10	7.0	5.6	5.2	4.6	4.2	5.1	5.7	7.7	10.1	9.9	9.9	10.0	11.0	11.5	11.5	12.4	12.1	12.5	13.1	12.9	12.2	12.0	11.8	11.9
11	11.7	10.7	10.1	8.8	7.8	7.6	7.3	8.5	9.1	9.5	9.6	9.4	8.9	8.2	9.2	9.2	9.0	9.1	9.5	9.4	8.5	7.9	6.6	5.7
12	5.1	4.4	4.8	4.4	4.8	5.1	6.1	7.1	8.8	9.0	10.4	11.1	11.7	12.1	12.6	12.0	12.4	12.4	12.1	12.2	11.8	10.8	9.5	9.1
13	8.0	7.9	7.8	7.3	6.9	7.0	8.9	10.3	11.4	11.5	12.7	12.8	13.0	13.8	15.0	16.0	15.6	15.8	15.5	13.9	12.8	12.2	11.8	11.3
14	11.0	11.6	10.2	8.3	8.1	8.9	9.8	9.6	9.8	11.2	11.2	10.3	11.0	12.0	12.0	11.5	12.0	11.5	11.2	10.6	9.8	8.3	7.1	6.0
15	6.7	7.7	5.9	5.1	4.4	3.5	5.3	7.6	7.9	8.4	9.4	9.3	9.4	10.5	10.4	10.9	11.7	11.3	11.0	10.5	10.5	9.5	8.0	7.6
16	7.9	8.3	8.1	8.1	8.5	8.5	9.1	9.5	10.2	11.8	14.0	15.3	16.0	15.4	15.2	15.4	13.8	13.7	13.6	11.7	11.0	9.9	9.2	7.9
17	7.2	5.7	3.7	3.8	3.5	4.0	5.8	7.2	7.8	8.2	8.2	7.7	8.1	8.2	8.8	9.2	9.6	8.8	9.3	8.2	7.9	6.0	6.7	7.0
18	7.1	7.0	6.9	7.1	7.4	7.4	7.6	8.6	9.3	8.6	9.0	10.3	9.3	9.7	9.8	10.3	10.0	10.1	10.3	9.0	9.0	6.7	7.4	7.4
19	7.0	6.7	6.1	6.5	6.8	6.8	8.1	9.4	9.8	9.7	9.9	10.4	10.6	10.0	10.2	10.4	9.9	10.5	10.2	10.4	10.0	8.9	8.4	8.5
20	9.8	9.5	9.5	9.4	8.9	9.1	10.3	11.6	12.4	13.1	13.0	13.3	13.1	13.8	13.3	12.7	13.1	11.9	11.2	11.1	11.1	9.1	8.2	8.0
21	7.8	7.4	6.1	5.1	6.0	6.2	6.6	9.0	11.2	11.7	12.3	11.5	12.0	12.0	12.5	11.9	11.8	12.1	11.4	11.3	10.4	9.4	7.8	6.6
22	5.7	5.1	5.0	5.3	5.1	7.8	8.6	9.0	10.6	12.0	12.1	13.1	13.4	13.3	13.3	13.7	13.6	14.1	12.8	12.1	12.3	12.0	11.7	11.5
23	11.4	11.2	11.2	11.4	11.7	11.7	12.4	13.3	14.7	15.5	16.1	17.5	17.9	19.1	19.6	19.1	19.1	19.4	19.9	20.1	20.0	19.0	18.2	17.4
24	16.4	15.5	13.0	11.6	10.4	9.8	9.4	9.2	9.8	9.8	9.2	9.7	10.4	10.7	10.8	10.2	10.2	10.0	9.3	8.9	8.7	8.3	6.5	5.7
25	5.1	4.6	3.6	4.1	3.5	5.0	6.3	9.0	9.0	9.2	10.0	10.2	12.2	11.3	12.8	12.8	12.5	12.5	12.2	12.3	12.2	10.8	10.8	10.6
26	10.3	9.6	9.0	9.1	8.5	8.6	8.8	10.0	11.8	13.2	14.3	14.5	15.7	15.2	15.5	16.3	16.3	16.4	17.7	17.3	16.8	15.4	14.2	13.3
27	13.8	13.4	11.3	11.7	10.7	9.0	10.4	13.0	13.0	12.2	12.5	12.0	12.2	12.0	11.5	11.2	12.0	11.5	11.3	11.3	10.6	10.0	9.4	8.7
28	9.6	10.0	10.1	10.0	10.9	10.1	10.2	11.0	11.6	12.1	12.0	10.8	10.4	12.2	11.9	12.6	12.5	12.2	12.2	10.7	9.2	8.4	7.3	6.8
29	5.7	6.7	5.9	5.0	4.9	4.6	5.8	7.5	9.0	9.0	8.9	9.8	10.2	10.4	9.5	11.0	10.5	10.5	11.0	10.3	9.3	7.8	6.1	6.0
30	5.4	5.0	4.4	3.6	4.0	3.5	5.9	9.2	11.6	11.2	11.3	12.0	12.0	12.1	12.4	12.4	12.4	13.0	12.0	12.0	11.6	10.7	10.5	9.7

MEAN	8.1	7.8	7.2	7.0	6.8	6.8	7.6	8.9	9.8	10.2	10.6	11.0	11.3	11.6	11.7	11.8	11.8	11.9	11.7	11.3	10.8	9.8	9.1	8.5
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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	4.7	5.2	8.7	11.5	13.3	12.3	8.3	5.2	8.4	9.6	8.8	9.2	11.6	10.1	8.4	11.3

MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MEAN	7.1	8.6	9.0	11.1	9.6	10.6	16.1	10.1	9.3	13.2	11.4	10.6	8.1	9.5

