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# MONTHLY METEOROLOGICAL SUMMARY

## SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

JUL 27 1979

MONTH/MOIS JUNE / JUIN

19 79

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

LAT: 54° 54' N		LONG: 97° 14' W		ELEVATION: ALTITUDE: METRES (ASL) 239.6 MÈTRES (INMM)		STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE:										
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°C	BASE 5°C	%	%	mm	cm	mm	cm	km/h		km/h	HOURS HEURES	
1	15.0	5.9	10.5	7.5	5.5	95	51	9.0		9.0		21.1	SE	37	6.7	
2	20.0	9.1	14.6	3.4	9.6	91	79	0.2		0.2		11.2	NW	26	9.6	
3	23.2	11.7	17.5	0.5	12.5	77	32	1.6		1.6		15.6	NW	26	10.1	
4	17.6	6.9	12.3	5.7	7.3	78	36	TR		TR		16.7	TR, NNE, NE	31	14.9	
5	20.2	6.5	13.4	4.6	8.4	77	42	TR		TR		21.0	S	39	3.2	
6	22.7	12.5	17.6	0.4	12.6	80	33	TR		TR		26.5	WNW	41*	9.7	
7	16.5	7.5	12.0	6.0	7.0	97	55	7.9		7.9		15.3	NW	22	6.2	
8	19.0	4.3	11.7	6.3	6.7	92	30					10.0	NW	20	15.5	
9	19.7	7.8	13.8	4.2	8.8	85	34					12.3	S	20*	3.8	
10	22.5	7.3	14.9	3.1	9.9	85	36					19.1	N	35*	15.3	
11	23.1	3.8	13.5	4.5	8.5	86	29					5.2	CALM	20	12.6	
12	27.5	11.2	19.4	0.0	14.4	68	28					23.6	SSE	39	14.6	
13	34.0	16.0	25.0	0.0	20.0	70	27	1	0.6	0.6		40.9	S	59	10.9	
14	27.7	14.8	21.3	0.0	16.3	64	26	1	0.4	0.4		15.0	W, WNW	37	7.2	
15	21.8	9.5	15.7	2.3	10.7	76	40					19.7	WNW	31	15.5	
16	21.0	6.2	13.6	4.4	8.6	89	36					10.1	NE	28	16.0	
17	24.6	6.1	15.4	2.6	10.4	86	26					5.8	NNE, E	15*	15.5	
18	25.7	10.7	18.2	0.0	13.2	72	26					19.4	SSE	37*	15.5	
19	21.3	14.4	17.9	0.1	12.9	88	51	1	TR	TR		21.2	SSE	28*	1.5	
20	21.5	10.6	16.1	1.9	11.1	98	73	1	33.1	33.1		19.2	N	41	3.2	
21	12.3	8.0	10.2	7.8	5.2	95	78			TR		27.7	N	37	0.0	
22	18.0	5.2	11.6	6.4	6.6	92	42					12.2	E	20	15.9	
23	22.3	5.0	13.7	4.3	8.7	92	30					6.5	S	15	15.7	
24	24.8	9.9	17.4	0.6	12.4	89	45	1	0.2	0.2		23.7	SSW	39	12.7	
25	26.4	14.7	20.6	0.0	15.6	81	30	1	TR	TR		20.0	NNW	31*	15.2	
26	23.4	12.3	17.9	0.1	12.9	72	39					20.6	NNW	33*	15.7	
27	27.0	9.8	18.4	0.0	13.4	90	30	1	2.2	2.2		7.9	E	30	10.5	
28	25.8	14.7	20.3	0.0	15.3	94	53	1	9.9	9.9		12.2	SSW, NW	26	12.1	
29	28.9	14.5	21.7	0.0	16.7	84	27			TR		10.8	NNW	20*	14.4	
30	27.7	12.2	20.0	0.0	15.0	91	37					12.0	ESE	24*	15.4	
31																
MEAN MOYENNE	22.7	9.6	16.2	TOTAL 76.7	TOTAL 336.2	84	40	TOTAL 8	TOTAL 65.1	TOTAL 65.1		16.7	PREVAILING DOMINANTE S	MAXIMUM 59	TOTAL 335.1	
NORMAL NORMALE	22.7	10.3	16.5	75.5	345.8			5.3	80.3	TR	80.3	18.5	S	57	258.9	

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	DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE: cm				
								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	76.7	89.1	75.5	TOTAL FOR MONTH TOTAL DU MOIS	336.2	332.6	345.8	10	6	5	1	0	0	0	0	0	
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	6696.8	6079.9	5887.4	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	451.7	676.2	582.1	10	6	5	1	0	0	0	0	0	

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

June 20 unofficial report of hail over city. Funnel clouds near Altona and Gretna.  
June 28 Funnel clouds east of Portage La Prairie.  
Prevailing direction-28th also S, 29th also WNW.

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		JUNE / JUIN		1979							
Temperature/Température °Celsius Precipitation/Précipitation mm/Millimètres (mm) Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Centimètres (cm) Wind speed/Vitesse du vent Kilomètres/par heure (km/h) Station pressure/Pression à la station Kilopascals (kPa)	THIS MONTH CE MOIS-CI	PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS		
		VALUE RELEVÉ	DATE		VALUE RELEVÉ	DATE	HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
							VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ		DAY JOUR	YEAR ANNÉE
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	34.0	13	31.1	29	31.7	38.3	23	1900	26.1	24	1957	108	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	3.8	11	1.1	7	1.1	6.7	9, 11, 12	1873	-6.1	1, 2	1902, 1888	108	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	16.2		16.1		16.5	20.3		1910	12.3		1969	108	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	65.1		51.5		80.3	255.8		1910	3.3		1961	108	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE			NIL		TR	1.3		1875					
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	65.1		51.5		80.3	255.8		1901	3.3		1961	108	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	10		9		12	20		1901	3		1961	96	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	33.1	20	11.5	14		152.4	26	1901				108	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE						1.3	1	1875				108	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	33.1	20	11.5	14		152.4	26	1901				108	
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES	2.9	20	5.4	24		9.1	30	1952				23	
10 MINUTES	3.4	20	5.8	24		17.8	30	1952				23	
15 MINUTES	4.7	20	5.8	24		22.4	30	1952				23	
30 MINUTES	6.3	20	6.1	24		28.4	30	1952				23	
60 MINUTES	7.9	20	7.3	19		35.6	18	1964				23	
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	33.1	20	11.5	14		152.4	26	1901				108	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	16.7		16.7		18.5	23.0		1965	13.4		1928	59	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	S 59	13	N 52	19	57	S 90	7	1954				41	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SSW 89	13	N 83	19	86	WNW 127	29	1967				36	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES D'INSOLATION	335.1		280.1		258.9	376.0		1974	172.8		1925	80	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.41		98.24		98.31	98.60		1946	97.86		1973	33	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.68	22	99.74	13	99.61	1003.7	14	1961				41	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.22	6	96.29	10	96.67			1967	94.86	7	1954	41	
CLIMATOLOGICAL DATA FOR THE PAST TEN YEARS DONNÉES CLIMATOLOGIQUES POUR LES DIX ANNÉES DERNIÈRES													
YEAR ANNÉE	MAXIMUM TEMP. MAXIMALE	MINIMUM TEMP. MINIMALE	MEAN TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES D'INSOLATION	HEATING DEGREE-DAYS DEGRES-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRES-JOURS DE CROISSANCE		
1970	36.1	4.4	18.9	50.5		50.5	17.2	NW 45	302.0	27.8	420.0		
1971	31.7	1.7	17.6	75.9		75.9	13.7	SE 37	257.3	41.7	380.0		
1972	33.3	-1.1	17.3	50.3		50.3	15.0	S 40	372.5	56.1	378.9		
1973	30.0	0.0	16.2	88.1		88.1	18.8	N 64	253.6	75.0	341.1		
1974	35.6	2.8	17.1	17.8		17.8	16.7	NW 51	376.0	65.0	365.6		
1975	30.8	3.3	16.9	120.4		120.4	14.5	ESE 48	252.0	76.5	357.6		
1976	31.3	2.6	18.3	182.5		182.5	18.8	S 54	261.3	47.0	397.8		
1977	29.5	5.6	16.7	88.4		88.4	18.4	NW 59	240.0	53.1	351.0		
1978	31.1	1.1	16.1	51.5		51.5	16.7	N 52	280.1	89.1	332.6		
1979	34.0	3.8	16.2	65.1		65.1	16.7	S 59	335.1	76.7	336.2		

\*Max rainfall doubtful 5 Minutes to 60 Minutes due to rain gauge malfunction.

For the ninth consecutive month the mean temperature was below normal. This ties the record set in 1949-50 as the longest period of below normal temperatures since 1900. It also ties for the fourth longest period on record. The mean of 16.2 was 0.3 degrees below the normal. The maximum for the month was 34.0 on the 13th while the minimum was 3.8 on the 11th.

Precipitation was below normal. 65.1 mm of rain fell in comparison to the normal of 80.3. 33.1 mm of the total fell on the 20th. Rain gauges in the north part of the city recorded amounts as great as 71 mm on the evening of the 20th resulting in some basement flooding.

There were 8 thunderstorms recorded in comparison to the normal 5.3. The average wind was 16.7 KmH a little below normal and there were 335.1 hours of sunshine some 78 hours above the normal for June.

## DAILY WEATHER SUMMARY FOR JUNE 1979

## AT WINNIPEG, MANITOBA

1. Below normal temperatures. Partly cloudy. Rain or showers 00:06 a.m. to 10:21 a.m., 1:54 p.m. to 2:12 p.m. Light fog. Moderate winds. Gusty NNE winds in morning.
2. Normal temperatures. Partly cloudy. Showers 3:48 a.m. to 10:08 a.m. Mostly light winds but occasional gusty W winds in afternoon.
3. Above normal temperatures. Mostly sunny. Showers 01:54 a.m. to 1:58 a.m., 7:18 p.m. to 10:46 p.m., 11:55 p.m. continued. Mostly light winds.
4. Below normal temperatures. Mostly sunny. Showers to 1:45 a.m. Mostly light winds but gusty NNE winds in afternoon.
5. Below normal temperatures. Mostly cloudy. Rain or showers 9:50 a.m. to 1:20 p.m., 10:17 p.m. to 11:03 p.m. Moderate winds. Gusty S to SSE winds.
6. Above normal temperatures. Partly cloudy. Rain 02:56 a.m. to 03:06 a.m. Moderate winds. Gusty W winds.
7. Below normal temperatures. Partly cloudy. Showers 4:49 p.m. to 9:06 p.m. Mostly light winds. Light fog in evening. Visibility restricted.
8. Below normal temperatures. Mostly sunny. Mostly light winds.
9. Below normal temperatures. Mostly cloudy. Mostly light winds.
10. Below normal temperatures. Mostly sunny. Mostly light winds but occasional N gusty winds.
11. Below normal temperatures. Mostly sunny. Light winds.
12. Above normal temperatures. Mostly sunny. Moderate winds. Gusty S winds afternoon and evening. Lightning late evening.
13. Warm record breaking high temperatures. Partly cloudy. Thunder 00:46 a.m. to 7:16 a.m., 7:36 p.m. to 8:21 p.m. Showers 01:06 a.m. to 7:20 a.m., 8:06 p.m. to 9:40 p.m. Strong winds. Gusty S winds to 89 Kms. Property damage due to high winds and lightning.
14. Above normal temperatures. Partly cloudy. Thunder 10:14 a.m. to 11:16 a.m. Showers 10:22 a.m. to 10:38 a.m., 3:17 p.m. to 5:45 p.m. Mostly light winds but gusty winds early morning.
15. Below normal temperatures. Mostly sunny. Mostly light winds but some NW gusts.
16. Below normal temperatures. Mostly sunny. Mostly light winds but occasional NE gusts.
17. Below normal temperatures. Mostly sunny. Light winds.
18. Near normal temperatures. Mostly sunny. Mostly light winds but occasional gusty SSE winds.
19. Near normal temperatures. Mostly cloudy. Thunder 11:35 p.m. continued. Rain 11:45 a.m. to 12:36 p.m. Showers 11:41 p.m. continued. Moderate winds.
20. Funnel clouds reported near Altona and Gretna. Precipitation variable throughout city. Hail reported eastern parts of city. Some flooded basements. Kildonan had 99.0 mm in 48 hours from the 20 to 21 of June. Near normal temperatures. Mostly cloudy. Thunder to 00:12 a.m., rain or showers to 7:34 a.m., 1:29 p.m. to 4:50 p.m., 7:45 p.m. to 11:11 p.m. Light fog in morning. Visibility restricted. Mostly light winds.
21. Below normal temperatures. Cloudy. Rain or drizzle 00:53 a.m. to 8:42 a.m. Moderate winds. Gusty N wind in morning.
22. Below normal temperatures. Mostly sunny. Mostly light winds.
23. Below normal temperatures. Mostly sunny. Mostly light winds. Smoke over city late evening.
24. Near normal temperatures. Mostly sunny. Thunder 8:15 p.m. to 10:10 p.m. Showers 7:33 p.m. to 9:40 p.m. Moderate winds. Gusty S winds.
25. Above normal temperatures. Mostly sunny. Thunder 01:00 a.m. to 01:36 a.m. Showers 01:21 a.m. to 01:26 a.m. Moderate winds. Gusty NW winds in afternoon.
26. Near normal temperatures. Mostly sunny. Moderate winds. Gusty NW winds in morning.
27. Near normal temperatures. Partly cloudy. Thunder 5:45 p.m. to 7:31 p.m. Showers 5:58 p.m. to 9:37 p.m. Mostly light winds.
28. Above normal temperatures. Mostly sunny. Thunder 01:12 a.m. to 3:46 a.m. Showers 00:53 a.m. to 5:06 a.m. Mostly light winds. Funnel cloud observed 6 miles E Portage La Prairie.
29. Above normal temperatures. Mostly sunny. Showers 8:15 p.m. to 8:23 p.m. Lightning in morning. Mostly light winds.
30. Above normal temperatures. Mostly sunny. Mostly light winds.

HOURLY 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.	9.8	8.6	7.8	7.3	7.0	7.1	7.3	7.7	8.8	7.2	5.0	7.8	10.0	10.7	11.4	11.0	13.8	14.3	14.2	13.8	13.2	12.8	12.8	12.8
2.	11.9	11.8	10.5	10.5	9.7	9.1	9.6	9.3	9.9	11.0	11.6	12.7	14.1	16.3	16.7	18.5	19.0	18.4	18.2	17.9	16.2	13.7	14.2	12.7
3.	12.5	13.6	13.9	12.5	12.2	11.8	12.6	14.6	17.0	18.7	19.4	21.0	21.6	21.8	22.2	22.3	22.6	22.5	20.2	19.1	16.2	12.4	12.8	12.3
4.	11.9	11.1	11.1	8.9	7.3	6.9	8.7	10.4	11.7	13.8	14.5	15.6	16.0	16.5	16.3	16.0	16.4	16.2	16.2	15.1	13.2	11.9	11.4	8.6
5.	8.3	8.6	8.2	7.7	6.5	7.5	10.1	11.1	12.6	14.6	15.0	17.0	16.8	16.0	16.8	17.8	20.0	19.4	19.2	19.0	18.1	17.8	17.2	16.3
6.	17.1	17.6	18.5	18.1	16.3	15.3	15.5	16.1	16.8	17.6	18.8	19.5	21.2	21.4	21.4	22.4	21.5	21.9	22.0	21.2	18.9	16.8	14.5	13.7
7.	12.5	11.8	10.0	10.0	9.1	9.4	10.2	10.5	12.2	13.5	15.2	15.0	14.5	14.6	14.6	15.2	14.8	13.8	12.0	9.8	9.3	8.5	8.3	6.3
8.	8.0	6.6	5.6	5.7	5.0	4.8	6.8	9.2	11.8	12.7	14.0	15.6	16.6	16.9	17.1	17.7	18.4	17.7	18.0	17.8	15.7	13.4	13.6	11.4
9.	10.6	9.5	9.8	8.6	8.8	8.0	9.3	11.5	13.7	15.0	15.7	16.5	17.5	18.0	18.3	18.1	18.7	19.2	19.1	18.3	16.7	13.3	13.3	11.4
10.	10.0	7.8	7.5	9.0	9.5	8.6	10.1	14.5	17.9	20.0	20.5	21.0	20.4	20.1	20.6	21.9	21.8	19.9	18.3	17.3	14.9	12.8	10.9	10.0
11.	8.4	7.5	6.5	5.1	4.4	5.5	8.2	12.1	14.9	16.4	18.0	18.5	19.6	20.9	21.4	21.8	22.6	22.5	21.5	22.3	20.0	18.3	16.0	14.5
12.	14.0	13.2	13.6	13.2	11.2	12.2	13.5	15.6	18.5	21.0	21.3	24.4	25.0	25.4	26.1	27.1	26.6	26.8	26.0	24.5	23.3	22.0	21.2	20.2
13.	20.4	19.9	18.8	17.9	17.3	18.0	17.9	17.8	20.0	21.4	23.3	26.5	28.5	30.0	32.1	33.0	33.5	33.6	33.1	32.5	30.5	29.7	29.0	26.8
14.	25.8	24.3	22.9	22.2	18.6	19.7	17.8	18.5	22.0	22.3	23.2	21.6	24.5	25.5	26.1	25.9	27.3	23.7	19.2	20.3	20.2	18.5	17.8	16.3
15.	14.8	13.8	12.7	12.2	11.0	11.6	12.3	14.9	17.2	18.7	19.3	19.8	20.0	20.0	20.5	21.3	20.8	20.0	19.4	18.5	16.8	13.5	11.8	11.0
16.	9.5	8.2	7.1	7.0	6.7	7.8	10.2	14.0	15.3	17.0	17.5	18.5	19.4	19.7	20.0	19.9	20.2	20.0	19.6	19.2	17.2	14.5	11.3	9.8
17.	9.1	8.0	7.9	6.6	6.2	6.5	10.6	14.2	17.0	19.8	20.7	21.7	22.2	22.7	23.2	23.7	23.9	23.9	23.1	22.1	20.6	17.2	17.0	15.5
18.	13.3	11.9	11.6	11.8	11.3	11.1	12.4	14.5	17.2	21.0	21.7	23.4	23.5	24.0	24.9	24.9	24.5	23.8	23.7	22.8	21.8	20.2	19.6	18.3
19.	17.2	17.9	19.1	14.4	15.5	15.2	15.8	16.3	16.5	16.3	16.1	17.2	16.7	18.2	17.7	18.5	20.0	19.2	18.8	17.0	16.5	16.3	16.0	15.8
20.	15.9	15.3	15.2	14.7	14.8	14.8	15.0	15.1	16.0	16.4	18.4	19.3	19.9	21.0	19.8	18.4	16.2	16.4	17.5	17.3	15.0	13.3	11.9	11.1
21.	10.6	9.6	8.9	8.5	8.3	8.2	8.0	8.4	8.2	8.4	9.6	10.0	10.9	10.8	11.4	10.8	11.0	11.0	10.8	10.5	10.5	10.3	10.2	9.8
22.	8.3	7.6	7.6	7.6	6.1	5.8	6.9	9.1	10.7	11.7	12.8	13.7	14.5	15.5	16.8	17.0	17.3	17.0	17.3	16.8	15.6	13.1	10.2	8.5
23.	7.5	7.5	5.8	6.1	5.9	5.9	9.2	12.4	14.8	16.8	17.7	18.3	19.0	19.3	20.2	20.7	20.9	21.3	21.2	20.2	18.3	16.4	15.0	13.3
24.	13.5	13.6	11.8	11.6	11.1	10.8	12.5	14.9	17.0	18.6	20.2	22.0	22.4	23.2	23.8	24.0	23.8	23.8	22.8	22.0	21.4	19.9	19.9	19.9
25.	18.6	18.0	17.5	16.8	16.1	16.0	16.4	18.0	20.8	21.0	22.3	23.7	22.3	23.8	25.3	25.0	25.6	25.5	24.5	23.7	21.2	17.1	17.4	14.4
26.	14.8	15.1	15.2	15.1	12.4	13.0	13.8	16.3	18.6	19.3	20.0	20.9	21.2	22.3	22.5	22.6	22.3	22.1	22.2	21.1	19.7	16.5	15.1	14.7
27.	15.0	13.2	12.3	11.8	11.3	10.8	14.0	16.5	18.5	21.2	22.2	23.3	24.2	24.6	26.4	25.0	25.6	26.1	24.9	20.5	20.0	16.2	16.1	16.3
28.	16.4	16.3	15.2	14.7	15.0	15.2	16.1	18.2	18.7	20.2	20.7	21.5	21.9	24.2	24.1	24.2	24.5	24.6	24.6	21.9	21.7	19.1	18.2	18.4
29.	17.3	16.2	15.3	15.5	14.6	15.1	16.0	17.8	19.6	22.0	24.0	25.6	26.3	28.0	28.2	28.2	28.2	28.2	27.9	27.3	25.9	24.3	21.9	18.1
30.	14.5	14.2	13.0	12.4	12.2	12.8	14.5	17.8	20.6	23.0	24.3	25.8	26.1	26.3	26.6	26.8	27.0	27.0	26.3	25.4	24.2	22.9	21.9	20.7

MEAN	13.2	12.5	11.9	11.4	10.7	10.7	12.0	13.9	15.8	17.2	18.1	19.2	19.9	20.6	21.1	21.3	21.6	21.3	20.7	19.8	18.4	16.4	15.4	14.3
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HOURLY WETBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE 1979  
 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	7.0	7.1	6.8	6.4	6.5	6.5	6.5	7.1	8.2	5.8	5.7	5.4	8.3	8.0	8.4	8.8	9.8	9.8	9.2	9.4	9.4	9.5	9.5	9.5
2	8.9	9.0	8.8	7.9	7.1	6.6	7.0	7.3	7.3	7.9	8.5	9.0	10.1	11.5	10.5	12.0	11.7	10.9	10.8	10.3	10.8	10.1	9.9	8.9
3	9.5	9.9	9.9	10.0	9.5	9.6	10.4	11.8	12.9	14.2	14.0	14.4	15.2	14.3	14.2	13.5	13.1	13.0	12.8	12.3	10.4	9.5	8.3	8.6
4	8.2	7.9	7.1	6.0	5.0	4.8	6.0	7.0	8.1	9.0	8.3	9.6	9.0	9.2	9.4	9.5	9.9	9.4	9.8	9.2	8.3	7.7	7.4	6.7
5	6.5	6.3	5.9	5.4	4.7	5.8	7.3	8.0	8.9	10.1	10.2	11.1	10.6	10.9	11.2	12.2	13.1	12.3	12.1	12.4	12.1	12.0	11.9	12.4
6	12.6	13.7	14.5	14.1	13.9	13.4	13.3	13.3	13.6	14.1	14.1	14.1	14.1	14.0	14.4	14.8	13.4	13.3	13.2	12.3	10.8	10.0	8.9	8.5
7	7.9	7.6	6.9	6.9	6.6	6.4	7.5	7.7	8.4	9.5	10.7	10.2	10.4	10.6	10.9	11.1	10.8	10.2	10.7	9.5	9.0	9.1	8.1	7.5
8	6.5	5.6	4.9	5.0	4.2	4.2	6.2	8.1	9.4	9.2	9.6	10.4	10.9	9.9	9.2	9.8	10.2	9.4	10.2	9.6	9.7	9.1	7.6	7.8
9	6.6	6.0	6.0	5.8	6.9	6.8	7.3	9.0	9.3	10.4	10.5	11.0	11.4	10.2	10.9	11.2	11.3	11.5	11.2	10.7	9.5	9.4	8.4	8.4
10	7.6	6.4	6.2	7.1	8.0	7.5	8.6	11.2	12.8	13.3	12.8	13.0	12.4	12.3	12.3	13.1	13.1	12.3	10.7	10.4	9.1	7.8	6.5	6.5
11	5.7	5.6	5.0	4.2	3.5	4.1	6.2	7.9	8.9	9.0	10.7	9.7	10.9	12.8	12.3	12.1	12.9	12.6	13.9	12.9	12.2	11.3	10.5	9.8
12	9.4	8.9	9.3	9.2	8.2	9.2	9.8	11.0	13.0	13.8	14.5	15.9	15.9	15.6	16.1	16.6	15.3	15.8	15.3	15.4	14.9	14.3	14.0	13.7
13	13.5	13.4	14.1	14.3	13.3	14.3	14.3	14.5	16.1	16.9	17.8	19.2	19.5	20.0	20.1	20.2	20.0	19.9	19.5	18.9	18.7	18.9	18.8	18.2
14	18.0	17.0	15.5	12.2	10.5	10.2	11.4	12.1	13.4	13.7	14.3	15.8	15.9	15.0	14.5	15.2	16.2	13.7	14.2	16.0	14.2	12.8	11.8	10.5
15	9.8	9.2	8.6	8.3	7.9	8.5	9.0	10.4	11.3	12.7	12.7	12.9	13.4	12.9	13.5	13.9	13.2	12.5	12.1	11.8	10.8	9.5	8.3	8.2
16	7.5	6.8	6.1	6.0	5.3	6.7	8.6	11.0	11.7	12.1	11.7	12.0	12.1	11.9	12.1	11.8	12.2	12.2	12.0	12.2	10.7	9.8	7.8	7.0
17	7.0	6.5	6.4	5.2	5.2	5.3	8.9	10.5	11.7	13.0	12.2	12.5	12.7	12.5	12.7	13.0	13.4	13.2	12.9	13.0	13.1	11.9	11.5	10.3
18	9.9	8.9	8.8	8.8	8.5	8.4	9.8	10.5	12.4	14.6	13.0	14.0	14.1	14.2	13.7	14.1	13.3	13.2	14.0	14.0	13.3	12.4	12.0	11.3
19	11.0	10.9	10.4	10.4	11.0	11.1	11.4	12.3	12.8	12.5	12.5	13.5	13.2	14.3	14.3	15.0	15.4	15.3	15.5	14.5	14.5	14.3	14.3	14.3
20	14.7	14.8	14.8	14.5	14.6	14.7	14.9	15.0	15.7	15.2	16.2	16.1	16.9	17.8	17.3	17.2	15.2	15.2	16.1	15.9	14.5	12.9	11.3	10.4
21	9.7	8.9	8.2	7.8	7.3	7.3	7.3	7.9	7.3	7.5	8.3	8.3	9.1	9.0	9.3	9.2	9.1	9.3	9.1	8.9	8.8	8.7	8.7	8.0
22	7.1	6.3	6.2	6.2	5.6	4.9	5.3	6.6	7.3	8.3	9.2	9.3	10.0	10.0	11.2	11.0	11.1	10.5	10.5	10.7	10.3	9.1	8.3	7.2
23	6.1	6.2	5.1	5.2	5.4	5.4	8.0	9.1	9.6	10.8	10.3	10.5	11.3	10.3	11.6	11.7	11.6	12.3	12.2	12.5	12.2	11.1	10.7	10.0
24	10.0	9.9	9.1	9.5	9.6	9.8	11.5	13.1	14.0	14.8	15.2	16.0	16.0	15.7	16.3	16.6	16.2	16.2	15.9	15.9	15.6	13.9	13.8	14.7
25	15.0	14.7	14.6	14.4	14.1	14.1	14.5	15.6	17.4	17.2	16.2	15.5	14.6	16.3	17.3	17.7	15.0	14.8	14.8	15.1	14.5	13.8	12.7	11.8
26	11.6	11.4	11.5	10.4	9.8	10.2	10.9	12.8	14.2	14.2	14.4	13.8	14.4	15.3	14.8	15.2	14.4	14.0	14.1	13.1	12.3	11.4	10.8	10.9
27	11.6	10.8	10.4	10.1	9.5	9.3	12.0	13.1	14.0	14.2	14.2	14.7	14.8	14.9	16.4	16.0	16.0	15.3	16.4	17.7	16.8	15.2	14.8	14.7
28	14.5	14.8	14.7	14.1	14.3	14.2	14.6	15.8	16.2	16.5	17.0	17.6	17.8	19.1	18.5	18.2	18.3	18.4	18.0	18.1	17.4	16.7	15.7	15.7
29	14.9	14.1	13.6	13.6	13.0	13.4	14.0	15.1	16.3	17.7	18.7	18.5	16.8	17.7	17.6	17.7	17.1	16.0	16.4	16.5	16.1	15.8	14.4	13.3
30	12.8	12.8	11.8	11.6	11.2	11.3	12.8	15.4	17.0	17.5	17.3	17.5	17.4	17.2	16.8	17.0	17.3	18.1	16.9	16.7	16.8	16.1	15.8	15.1

MEAN 10.0 9.7 9.4 9.0 8.7 8.8 9.9 11.0 12.0 12.6 12.7 13.1 13.2 13.5 13.6 13.8 13.4 13.4 13.4 13.2 12.6 11.8 11.2 10.7

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE

ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

STARTING HOUR	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	SE	SE	ESE	ESE	ESE	SE	SE	SE	NNE	NNE	NE	NE	N	WNW	NW	WNW	WNW	WNW	WNW	WNW	SW	WSW	WSW	WSW
2	WSW	WNW	WNW	NW	NW	N	C	W	WNW	NW	NW	W	WNW	WNW	W	W	NW	NW	NW	NW	C	C	SSE	S
3	S	S	SSW	SW	SW	WSW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	N	N	N	ENE	C	ENE	ENE	ENE
4	NNE	NE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	N	NNE	NE	NE	NE	ENE	E	E	E	E	C	C
5	E	SE	SSE	S	S	SSE	S	S	SSW	S	S	S	S	S	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	S
6	S	S	SSW	SSW	SW	WSW	W	W	W	W	W	W	WNW	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW
7	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
8	WNW	NW	NW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	ENE	NNE	N	N	C	W	W
9	S	S	SSE	S	S	S	S	S	SSW	SSW	SSW	S	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SSW
10	SSW	SW	W	WNW	WNW	NW	NW	NW	N	N	N	N	N	N	N	N	N	ENE	ENE	NE	NE	ENE	E	E
11	E	C	C	W	C	C	C	C	ESE	ESE	E	NNE	E	S	E	S	SSW	S	SE	E	ESE	SE	SE	SE
12	SE	SSE	SSE	SSE	SSE	SSE	S	S	SSE	SSE	S	S	SSE	SSE	S	SSE	S	SSW	S	SSE	SSE	S	S	S
13	S	S	SSE	S	S	S	S	SE	S	SE	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
14	SSW	SW	W	W	NW	C	WSW	WNW	NW	SE	SE	SE	NE	ENE	ENE	NW	WNW	WNW	WNW	NW	W	WNW	W	WNW
15	WNW	W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW

PEAK GUSTS CST

10 57 15 41 13 37 13 65 20 54 15 69 06 35 19 31 16 54 15 65 16 89 01 50 11 46

WIND DIRECTION



