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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JUNE / JUIN

1978

AT/À WINNIPEG INTERNATIONAL AIRPORT / À L'AÉROPORT DE WINNIPEG, MANITOBA

LAT: 54° 54' N		LONG: 97° 14' W		ELEVATION: 786 METRES (ASL) / MÈTRES (NMM)		STANDARD TIME USED: CENTRAL		HEURE NORMALE UTILISÉE											
DATE	TEMPERATURE / TEMPÉRATURE			DEGREE-DAYS / DEGRÉS-JOURS		REL. HUMIDITY / HUMIDITÉ REL.		THUNDERSTORM / ORAGE	PRECIPITATION / PRÉCIPITATIONS				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. / TOTALÉ	SNOW ON GROUND / NEIGE AU SOL	AVERAGE SPEED / VITESSE MOYENNE	PREVAILING DIRECTION / DIRECTION DOMINANTE		MAXIMUM SPEED / VITESSE MAXIMALE	HOURS / HEURES		
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h		km/h					
1	12.5	4.1	8.3	9.7	3.3	94	29	4.5		4.5		25.6	N	NNE	37	4.5			
2	18.6	1.5	10.1	7.9	5.1	97	39	Tr.		Tr.		9.9	W,WNW	W	24	8.6			
3	19.8	4.7	12.3	5.7	7.3	94	40	Tr.		Tr.		14.8	N	NNW	33	10.6			
4	19.0	7.6	13.3	4.7	8.3	91	42					21.4	N	N	33	14.3			
5	29.5	7.0	18.3	0.0	13.3	82	24	Tr.		Tr.		22.2	W	W	41	10.1			
6	17.1	5.7	11.4	6.6	6.4	93	54	1	2.2	2.2		24.6	NNE	NE	41	2.8			
7	21.5	1.1	11.3	6.7	6.3	90	36		Tr.	Tr.		16.6	W	W	31*	12.5			
8	12.4	3.5	8.0	10.0	3.0	95	37		Tr.	Tr.		18.0	E,ENE	E	33*	9.7			
9	23.9	4.1	14.0	4.0	9.0	77	38		Tr.	Tr.		25.9	S	S	41	9.0			
10	24.7	11.8	18.3	0.0	13.3	75	32		Tr.	Tr.		25.1	W	WNW	37	11.6			
11	12.4	7.4	9.9	8.1	4.9	88	59		Tr.	Tr.		19.1	N	N	28	3.1			
12	19.7	5.0	12.4	5.6	7.4	86	48		Tr.	Tr.		10.0	NE,SSE	NE	19	8.9			
13	22.3	4.8	13.6	4.4	8.6	94	32					10.1	E,ESE	SE	15*	12.8			
14	22.8	13.8	18.3	0.0	13.3	94	54	1	11.5	11.5		20.6	SSE	SSE	28*	8.8			
15	24.3	13.3	18.8	0.0	13.8	98	62		Tr.	Tr.		18.7	SSE	S	26	4.1			
16	25.0	15.8	20.4	0.0	15.4	85	28	1	0.8	0.8		18.9	W	W	30*	13.5			
17	17.7	10.0	13.9	4.1	8.9	93	37	1	4.0	4.0		17.9	NW	N	35	12.8			
18	30.3	8.5	19.4	0.0	14.4	71	23					20.1	SW	SW	33	14.4			
19	21.6	7.5	14.6	3.4	9.6	100	52	1	10.6	10.6		27.5	E,ENE	N	52	5.0			
20	19.0	8.5	13.8	4.2	8.8	88	38		Tr.	Tr.		15.6	NW	NW	33	8.0			
21	25.0	6.9	16.0	2.0	11.0	84	29					7.2	SSW	SSW	17	15.5			
22	27.3	13.0	20.2	0.0	15.2	66	30					16.7	S	SSW	26	13.5			
23	28.6	15.2	21.9	0.0	16.9	82	46					17.6	S	S	26	13.2			
24	24.0	16.5	20.3	0.0	15.3	93	58	1	10.5	10.5		13.2	S,ESE	NNE	31	3.9			
25	21.5	12.6	17.1	0.9	12.1	96	69					11.0	NNE	N	26	3.1			
26	22.9	10.9	16.9	1.1	11.9	96	60		0.2	0.2		10.5	WNW	NNE	24*	1.7			
27	29.0	12.4	20.7	0.0	15.7	90	33	1	7.2	7.2		13.1	W	NW	28	11.9			
28	29.0	13.4	21.2	0.0	16.2	90	33					11.7	WSW,WNW	NW	22	15.3			
29	31.1	17.2	24.2	0.0	19.2	75	35					8.3	WNW	N	20	10.7			
30	29.6	17.8	23.7	0.0	18.7	86	49					10.4	SSE	SSE	28	6.2			
31																			
MEAN MOYENNE	22.7	9.4	16.1	TOTAL 89.1	TOTAL 332.6	88	42	TOTAL 7	TOTAL 51.5	TOTAL 51.5		16.7	PREVAILING DIRECTION / DIRECTION DOMINANTE S	MAXIMUM N	52	TOTAL 280.1			
NORMAL NORMALE	22.7	10.3	16.5	73.3	345.0			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 CHÛTE 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	89.1	53.1	73.3	TOTAL FOR MONTH / TOTAL DU MOIS	332.6	351.0	345.0	9	7	7	3	0	0	0	0	0	0		
ACCUMULATED SINCE JULY 1 / ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	6079.9	5644.1	5863.9	ACCUMULATED SINCE APRIL 1 / ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	676.2	870.5	586.3												

UDC 551.506.1 ()

*Indicates more than one occurrence of same speed, but not necessarily the same direction.

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Official hail - June 24
hail in the city - June 27

Tornado in southern Manitoba - June 19
Unconfirmed tornadoes in southern Manitoba - June 24, 27
Unconfirmed funnel clouds over Winnipeg - June 27

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS JUNE / JUIN										19 78		
Temperature/Température — Celsius Precipitation/Précipitation — Millimetres (mm) Rainfall/Hauteur de pluie — Millimetres (mm) Snowfall/Hauteur de neige — Centimetres (cm) Wind speed/Vitesse du vent — Kilometres/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	31.1	29	29.5	25	31.7	38.3	23	1900	26.1	19 24	1957	107		
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	1.1	7	5.6	2	1.1	6.7	9,11 12	1873	-6.1	1,2 1	1902	107		
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	16.1		16.7		16.5	20.3		1910	12.3		1888 1969	107		
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	51.5		88.4		80.3	255.8		1910	3.3		1961	107		
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	Nil		Nil		Tr.	1.3		1875						
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	51.5		88.4		80.3	255.8		1901	3.3		1961	107		
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	9		14		12	20		1901	3		1961	95		
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	11.5	14	28.5	17		152.4	26	1901				107		
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE						.3	12	1969				107		
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	11.5	14	28.5	17		152.4	26	1901				107		
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:														
5 MINUTES	5.4	24	3.8	17		9.1	30	1952				22		
10 MINUTES	5.8	24	6.1	17		17.8	30	1952				22		
15 MINUTES	5.8	24	6.6	17		22.4	30	1952				22		
30 MINUTES	6.1	24	7.4	17		28.4	30	1952				22		
60 MINUTES	7.3	19	7.9	10		35.6	18	1964				22		
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	11.5	14	28.5	17		152.4	26	1901				107		
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	16.7		18.4		18.5	23.0		1965	13.4		1928	58		
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	N 52	19	NW 59	30	57	S 90	7	1954				40		
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	N 83	19	NW 93	30	86	WNW 127	29	1967				35		
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	280.1		240.0		258.9	376.0		1974	172.8		1925	79		
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.24		98.42		98.31	98.60		1946	97.86		1973	32		
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.74	13	99.49	6	99.61	1003.7	14, 1	1967				40		
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.29	10	96.31	30	96.69				94.86	7	1954	40		
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													TEN - DIX YEARS DERNIÈRE ANNÉES	
YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRÉCIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE			
1969	26.7	-1.7	12.2	104.6	.3	104.9	17.2	NE 53	263.6	167.8	224.4			
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			

June was sunnier than usual with temperatures averaging slightly cooler than normal, but it was a month of severe thunderstorms in and around Winnipeg.

Seven thunderstorms were reported and two brought damaging hail and winds to the city and tornadoes touched down 15 to 20 miles south of Winnipeg.

The sun shone on Winnipeg for 280.1 hours which is 21.2 hours more than normal for June. Temperatures averaged 16.1 degrees compared to normal of 16.5 degrees.

Precipitation totalled 51.5 mm compared to normal of 80.3.

DAILY WEATHER SUMMARY FOR JUNE 1978

AT WINNIPEG, MANITOBA

1. Below normal temperatures. Mostly cloudy. Drizzle to 3:12 a.m., rain or showers 00:16 a.m. to 10:35 a.m., 11:17 a.m. to 2:32 p.m. Moderate winds. Gusty NNE wind in the morning.
2. Below normal temperatures. Partly cloudy. Showers 2:09 p.m. to 4:32 p.m. Mostly light winds but gusty northwest wind in the afternoon.
3. Below normal temperatures. Partly cloudy. Rain 2:09 p.m. to 2:35 p.m. Light winds but gusty NNW wind in the evening.
4. Below normal temperatures. Sunny. Moderate winds. Gusty NNE winds in the morning.
5. Above normal temperatures. Partly cloudy. Light showers 11:16 p.m. to 11:55 p.m. Moderate winds, gusty west wind afternoon and evening.
6. Below normal temperatures. Mostly cloudy. Thunder 3:35 a.m. to 5:17 a.m. Showers 00:28 a.m. to 5:56 a.m. Rain 10:55 a.m. to 12:15 p.m. Moderate winds. Gusty NNE wind in the morning.
7. Below normal temperatures. Partly cloudy. Showers 5:05 p.m. to 5:12 p.m. Light winds but gusty west to NNW winds in afternoon. Smoke over the city late evening.
8. Below normal temperatures. Partly cloudy. Rain 00:26 a.m. to 00:48 a.m., 6:54 a.m. to 9:15 a.m. Mostly light winds but gusty east to ENE winds morning and afternoon.
9. Below normal temperatures. Partly cloudy. Showers 11:23 a.m. to 1:38 p.m. Moderate winds. Gusty south winds. Lightning late evening. One man killed, other blinded when tent hit by lightning at Whiteshell, east of Winnipeg.
10. Above normal temperatures. Showers 10:23 p.m. to 10:35 p.m. Moderate winds. Gusty WNW winds. Partly cloudy.
11. Cool. Mostly cloudy. Drizzle 00:40 a.m. to 01:05 a.m. Light winds but gusty north wind in the morning.
12. Below normal temperatures. Partly cloudy. Light winds. Showers 5:23 a.m. to 9:16 a.m.
13. Below normal temperatures. Light winds, mostly sunny.
14. Above normal temperatures. Partly cloudy. Thunder 5:05 a.m. to 6:45 a.m. Showers 00:05 a.m. to 2:10 a.m., 4:10 a.m. to 7:45 a.m. Moderate winds. Gusty SE wind. Light fog in the morning.
15. Above normal temperatures. Mostly cloudy. Light fog in the morning, visibility slightly restricted. Showers 11:22 a.m. to 11:25 a.m. Light winds but gusty SE wind in morning.
16. Above normal temperatures. Mostly sunny. Thunder 11:33 p.m. continued. Showers 8:56 p.m. continued. Mostly light winds but gusty west wind in afternoon.
17. Below normal temperatures. Mostly sunny. Thunder to 00:45 a.m. Showers to 01:10 a.m. Mostly light winds but gusty NW winds in the afternoon.
18. Near normal temperatures. Mostly sunny. Moderate winds, gusty SW winds afternoon and evening.
19. Below normal temperatures. Mostly cloudy. Thunder 10:20 a.m. to 11:12 a.m., 4:25 p.m. to 9:05 p.m. Showers 9:26 a.m. to 11:18 a.m., 1:57 p.m. continued. Very strong gale force winds to 83KM in evening. Property damage. Light fog in evening, visibility reduced.
NOTE: 4:15 p.m. C.S.T. to 6:00 p.m. C.S.T. tornadoes reported in 20KM belt from near Morris to St. Anne, touching down at Aubigny, Ste. Elizabeth, Ostenfield, Greenland, Niverville, St. Anne. At 7:00 p.m. C.S.T. funnel clouds seen at Pinawa. One man killed at St. Anne when bunk car smashed, at least 23 injured. Buildings destroyed mostly at Aubigny. About 2 million dollars damage -- cars hurled off roads, power lines downed. Hail 3/4 inch to baseball size reported.
20. Below normal temperatures. Mostly light winds. Showers to 02:32 a.m. Partly cloudy.
21. Below normal temperatures. Sunny. Light winds.
22. Above normal temperatures. Sunny. Mostly light winds but gusty south wind in the afternoon.
23. Above normal temperatures. Mostly sunny. Mostly light winds but gusty south wind in the evening.
24. Above normal temperatures. Mostly cloudy. Thunder 4:31 a.m. to 7:11 a.m., 3:58 p.m. to 4:45 p.m., 8:15 p.m. to 11:32 p.m. Showers 4:47 a.m. to 12:20 p.m., 10:16 p.m. to 11:10 p.m. Hail 11:00 p.m. to 11:02 p.m. Mostly light winds but gusty WNW wind in late evening. Unconfirmed tornado near Carberry in evening.
25. Below normal temperatures. Mostly cloudy. Mostly light winds.
26. Below normal temperatures. Mostly cloudy. Mostly light winds. Rain 7:50 a.m. to 11:10 a.m. Showers 3:44 p.m. to 4:15 p.m.
27. Warm. Light winds except gusty WNW wind in the late evening. Mostly sunny. Thunder 5:38 p.m. to 7:45 p.m., 8:56 p.m. to 9:20 p.m. Showers 5:38 p.m. to 8:15 p.m. Pea size hail in city but not at Airport. Unconfirmed reports of funnel clouds in city and unconfirmed tornado at St. Ambrose. Some property damage.
28. Warm. Sunny. Mostly light winds.
29. Warm. Mostly sunny. Light winds.
30. Warm. Partly cloudy. 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.	5.8	6.5	5.9	5.0	5.7	5.5	5.7	6.3	6.6	6.9	7.2	7.4	9.1	9.1	11.0	11.4	11.5	11.0	11.4	9.3	5.7	5.7	5.5	5.4
2.	4.1	4.6	4.8	3.4	3.2	2.1	3.2	7.8	10.8	13.3	13.8	14.6	15.7	17.2	17.9	18.1	17.5	15.2	15.4	14.2	13.5	12.6	11.6	9.5
3.	8.5	8.7	7.1	6.0	5.5	4.9	6.4	8.8	11.0	13.1	13.8	15.2	15.8	16.2	17.0	17.0	16.8	18.1	19.4	19.0	19.0	19.1	17.0	15.5
4.	13.2	11.1	10.5	10.0	10.3	10.8	11.8	13.8	15.0	17.6	17.7	17.0	17.8	18.0	17.5	18.2	18.1	16.7	16.2	15.8	13.0	13.6	9.3	9.1
5.	7.6	8.0	8.1	7.1	6.9	6.7	10.1	11.6	14.7	16.2	16.2	19.2	24.2	26.6	28.0	28.5	29.2	28.8	28.3	27.0	25.8	21.8	18.8	18.0
6.	15.7	17.1	16.7	13.9	15.6	14.9	14.7	11.9	11.1	9.8	8.6	8.0	8.8	9.0	11.5	10.9	11.6	12.1	11.9	10.9	10.1	8.9	8.0	6.7
7.	5.9	5.9	4.5	2.3	2.2	1.4	4.0	7.8	10.1	11.1	13.5	15.0	16.5	17.4	19.5	21.1	20.4	20.2	15.8	16.0	15.0	12.1	11.2	10.8
8.	11.4	11.0	9.7	9.2	8.9	9.0	8.9	7.6	6.4	5.0	5.1	7.5	8.6	10.5	11.7	12.0	12.1	11.6	11.5	11.1	9.9	7.3	5.0	3.5
9.	4.4	4.6	4.6	4.6	5.9	6.2	6.8	7.5	9.0	10.8	11.9	12.0	13.3	14.3	15.7	16.4	21.2	23.3	23.1	23.2	21.9	21.1	20.6	20.5
10.	20.0	19.6	21.2	19.2	17.5	17.6	18.4	21.5	22.6	23.2	23.2	23.5	23.8	23.5	23.1	23.0	23.0	22.7	21.8	21.2	19.9	14.4	13.2	12.2
11.	11.8	10.0	8.0	9.8	8.3	7.4	8.0	7.6	7.8	9.4	10.1	10.4	11.8	12.1	12.0	12.0	11.2	11.2	11.0	11.0	10.9	9.8	9.2	8.9
12.	9.8	7.7	6.0	6.0	5.3	5.0	7.2	9.0	11.1	11.5	11.8	13.9	15.1	16.7	17.4	18.2	17.1	17.7	17.3	16.5	14.9	13.1	11.2	8.8
13.	6.4	7.2	7.0	7.2	5.0	4.8	8.5	12.2	14.9	16.7	17.2	18.6	19.5	20.0	20.9	21.1	22.1	22.1	20.8	20.6	19.2	16.6	17.3	17.0
14.	17.2	19.0	16.2	15.5	15.7	15.1	14.0	13.8	14.3	16.9	17.9	17.2	16.5	22.1	21.0	21.0	22.1	22.6	22.2	21.0	20.0	19.1	18.1	16.9
15.	16.0	14.7	13.8	13.6	14.0	14.0	14.0	13.3	13.8	14.1	15.2	15.2	17.7	18.7	20.1	22.5	22.8	23.1	22.8	21.6	21.0	20.2	19.7	19.0
16.	17.8	18.5	18.5	18.2	18.3	17.3	17.5	19.0	20.5	22.1	23.0	23.6	23.9	24.0	24.3	24.4	24.3	24.5	23.9	23.7	22.7	21.4	19.5	17.0
17.	15.8	13.8	12.7	13.0	12.3	12.6	12.6	10.8	12.9	13.7	15.0	15.3	15.6	15.8	16.4	16.8	17.4	17.2	17.3	16.7	15.2	12.3	11.7	11.1
18.	16.3	15.7	9.5	9.7	8.7	10.4	12.1	15.4	18.3	20.0	22.5	24.6	27.0	28.5	29.0	29.7	29.4	30.0	28.7	28.2	26.5	23.9	22.0	21.4
19.	20.4	20.5	18.7	15.0	14.1	14.7	14.0	17.6	18.5	20.6	20.3	18.7	18.1	18.7	17.9	17.6	17.0	14.5	13.5	9.1	7.8	7.8	8.2	8.8
20.	9.3	8.6	8.9	9.2	9.3	9.4	9.1	9.9	11.3	12.6	13.5	14.5	14.9	15.7	17.0	15.4	18.3	17.4	17.5	17.5	15.7	13.8	10.5	10.3
21.	10.2	9.2	9.8	8.0	7.1	7.0	9.1	12.9	15.7	19.1	21.1	22.0	23.0	22.8	23.5	23.7	23.7	23.8	23.5	22.6	21.5	18.5	17.4	15.7
22.	14.7	14.3	13.5	13.5	13.8	14.3	14.0	16.9	19.3	21.3	23.4	24.7	25.4	25.2	26.8	26.2	25.5	25.0	24.5	22.5	21.0	16.8	15.3	14.3
23.	18.6	18.5	17.0	15.5	15.4	15.6	16.2	18.0	20.3	21.8	23.4	24.7	25.0	25.0	26.0	26.6	27.4	27.4	26.5	25.0	24.0	22.5	21.7	20.8
24.	20.2	18.4	17.6	17.8	17.7	17.5	17.9	18.0	18.3	18.2	19.6	19.5	20.1	21.1	22.0	23.2	21.6	22.8	23.5	22.5	21.2	21.0	20.8	17.0
25.	16.5	14.8	15.0	15.2	13.2	12.6	15.1	15.9	15.3	15.6	16.0	17.1	18.1	19.7	20.1	19.5	20.1	20.9	20.1	20.7	18.2	16.9	14.8	14.2
26.	13.4	14.0	14.0	13.2	11.2	11.5	12.2	13.4	14.0	15.4	15.3	17.6	19.3	20.2	22.0	21.1	20.4	20.5	21.0	19.4	18.0	17.6	15.8	15.1
27.	14.4	13.6	12.7	13.0	12.9	13.1	14.4	17.3	19.0	21.3	23.5	24.5	25.8	27.5	28.6	28.6	28.4	27.1	19.8	21.5	17.6	16.6	17.1	15.4
28.	15.5	15.4	15.3	14.3	14.2	14.2	15.4	17.5	20.0	22.0	24.2	25.8	26.8	29.0	28.0	28.0	27.4	27.9	27.5	26.9	25.1	23.9	21.9	20.2
29.	20.6	19.4	18.1	19.2	19.5	17.4	18.8	19.9	21.8	24.0	26.5	28.2	28.5	29.5	30.0	29.0	29.0	27.4	27.1	26.1	25.6	23.1	21.5	20.0
30.	20.3	20.1	19.1	19.0	18.3	18.2	20.1	22.1	24.7	26.3	27.0	27.9	28.4	28.4	29.0	27.5	26.9	26.0	24.9	24.4	24.5	21.9	20.4	20.4
MEAN	13.3	12.7	11.9	11.6	11.2	11.1	12.0	13.5	15.0	16.3	17.3	18.4	19.2	20.1	20.7	21.1	21.1	21.0	20.3	19.6	18.3	16.5	15.2	14.3

TEMPERATURES AT 1000 HOURS INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE 1978 PAGE 5
 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.	6.1	5.4	5.0	5.1	5.2	5.0	5.2	5.8	5.8	6.0	6.3	6.1	7.5	7.4	7.4	7.9	7.9	7.1	7.1	6.7	6.4	5.7	4.4	4.4
2.	3.4	3.8	3.8	2.9	2.0	1.9	2.8	5.8	5.9	6.6	7.8	8.9	10.1	11.0	10.6	11.3	10.7	11.2	11.4	11.4	11.6	11.4	10.4	9.0
3.	7.7	7.7	8.5	5.4	5.0	4.5	5.8	7.8	9.0	10.4	9.0	9.7	9.5	9.4	10.4	10.6	10.9	11.5	12.6	12.7	12.6	13.2	12.9	12.3
4.	11.2	10.0	9.3	9.1	5.4	5.4	11.8	11.5	11.3	11.7	11.7	12.2	11.8	12.2	11.0	11.2	11.9	10.5	10.2	10.5	9.7	8.4	7.7	7.4
5.	6.6	6.6	5.4	5.0	6.8	6.9	7.7	8.8	10.2	11.4	14.2	16.8	17.2	16.5	16.5	17.0	15.2	16.3	16.4	16.1	15.2	14.9	14.2	13.9
6.	14.4	14.0	13.9	14.2	14.4	14.1	14.0	11.4	10.3	9.3	8.0	7.5	7.2	7.6	9.2	8.3	8.2	7.7	8.0	7.2	6.8	5.9	5.4	4.5
7.	3.9	3.8	3.4	1.7	1.6	1.9	3.0	5.1	5.9	6.6	8.4	8.7	9.6	11.0	11.4	13.1	12.5	12.9	12.0	11.3	11.1	9.8	9.6	9.4
8.	10.6	10.3	9.1	8.4	8.4	8.1	8.1	6.1	5.4	4.0	4.0	5.6	6.0	7.0	6.2	5.4	5.6	6.1	5.9	5.2	4.9	3.8	3.3	2.3
9.	2.8	3.0	2.9	2.8	3.2	3.7	4.0	4.4	5.3	5.6	6.2	6.1	7.0	8.1	9.1	11.1	13.4	15.5	16.4	16.9	16.5	16.1	15.8	15.5
10.	15.4	15.3	16.0	15.2	14.4	14.8	14.9	16.9	16.2	15.0	15.8	14.3	13.9	14.6	14.3	14.3	14.8	14.1	13.7	13.4	12.8	11.7	10.1	9.5
11.	9.3	8.5	8.3	8.0	6.5	5.3	5.2	5.8	5.6	6.5	7.2	7.3	8.1	8.5	8.3	8.2	7.4	7.5	7.5	7.5	7.2	6.6	6.7	6.6
12.	6.5	5.7	4.4	4.3	4.1	4.0	4.0	7.3	8.0	7.9	8.3	8.6	10.6	11.7	11.6	12.0	11.4	12.0	11.9	11.5	10.8	9.8	8.9	7.4
13.	7.6	5.5	5.3	5.2	4.5	4.4	7.3	9.5	10.5	10.9	10.6	11.2	11.7	12.1	12.5	12.3	12.7	12.7	12.2	11.9	11.8	12.5	11.4	11.3
14.	11.0	11.5	11.3	10.4	11.4	11.5	12.4	13.3	13.4	15.2	15.6	15.2	15.4	17.0	17.5	17.5	15.1	18.1	18.2	17.6	16.7	16.2	15.9	15.1
15.	14.6	13.7	13.3	13.4	15.8	15.8	13.6	12.9	12.9	13.0	13.7	13.9	15.2	16.0	17.1	16.4	18.2	18.1	18.4	18.2	18.2	18.0	17.9	17.6
16.	17.0	15.5	15.5	15.5	15.9	15.6	15.0	16.4	15.0	15.6	13.5	13.1	13.3	13.6	14.5	14.2	14.5	14.9	14.5	15.1	19.6	14.1	14.1	14.0
17.	13.8	12.8	12.1	11.9	11.4	11.7	11.0	9.5	9.4	9.4	10.4	9.5	9.9	9.0	10.3	10.6	10.9	9.9	12.0	10.9	9.8	8.7	8.4	7.2
18.	6.3	5.7	5.1	5.6	5.9	7.9	8.0	10.6	12.1	13.6	14.8	18.8	16.0	15.6	15.8	16.8	16.8	16.8	16.7	16.7	14.6	14.4	14.6	14.6
19.	15.4	14.5	13.8	11.2	11.1	12.4	12.5	14.4	14.8	15.4	16.1	14.4	16.3	16.4	15.7	15.9	15.4	13.3	12.5	8.9	7.8	7.5	7.2	8.0
20.	7.9	7.6	7.6	7.6	7.7	7.9	7.8	8.3	9.1	9.9	9.8	10.0	8.9	9.4	10.4	10.4	11.0	10.0	10.5	10.2	10.3	9.4	8.2	8.3
21.	8.4	7.5	7.3	6.3	5.6	5.6	7.4	9.9	12.1	14.3	14.8	13.2	14.5	13.8	13.7	13.3	13.5	13.5	14.0	13.8	13.8	12.5	12.1	11.2
22.	10.5	10.4	10.1	9.9	10.1	10.4	10.6	12.0	13.7	14.1	14.5	15.0	15.7	15.6	15.8	15.6	15.0	14.5	14.7	14.2	14.4	14.0	14.4	13.6
23.	13.4	14.1	13.8	13.2	13.4	13.8	14.2	15.5	17.1	17.8	18.6	18.3	19.2	18.7	19.3	18.9	19.2	19.2	19.5	19.5	19.5	18.8	18.5	17.4
24.	17.6	16.8	16.5	16.8	16.7	16.6	17.0	17.2	17.5	17.2	17.4	18.0	18.2	18.1	18.3	19.2	18.0	18.8	18.0	17.8	17.5	17.7	17.8	15.3
25.	15.7	14.3	14.5	14.5	12.9	12.2	14.5	15.2	15.6	15.2	15.2	16.1	16.4	16.9	16.6	17.1	17.4	17.4	17.0	17.0	16.1	15.1	14.4	13.8
26.	13.0	13.6	13.6	12.5	10.5	10.9	11.5	12.4	13.0	14.4	14.4	16.3	17.5	17.7	18.5	17.2	17.1	16.2	16.1	16.1	15.6	15.1	14.3	13.7
27.	13.2	12.4	11.6	11.4	11.7	12.1	13.1	15.2	16.0	17.7	18.0	18.0	19.0	19.0	18.4	17.6	17.4	17.4	17.4	18.3	15.6	15.6	15.1	14.1
28.	14.1	14.0	13.8	13.3	12.9	13.0	14.0	15.6	17.0	18.5	19.4	18.4	19.0	18.8	18.3	17.6	17.1	17.4	18.3	18.6	18.4	17.5	16.9	16.3
29.	16.0	15.2	14.4	14.3	15.2	14.7	15.7	16.6	17.8	19.0	21.0	19.2	18.5	19.7	19.0	19.0	19.2	18.8	18.1	19.1	18.4	17.5	17.2	16.8
30.	14.1	15.3	16.4	16.5	16.5	15.5	17.8	18.2	19.7	21.0	21.0	20.7	21.5	20.8	21.1	20.5	20.0	20.4	20.6	20.4	20.4	19.4	18.9	18.9

MEAN	11.0	10.0	10.3	9.8	9.8	9.7	10.4	11.3	11.9	12.5	12.9	13.2	13.5	13.8	14.0	14.1	14.1	14.0	14.1	13.4	13.5	12.7	12.1	11.7
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ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE
 ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

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	PEAK GUSTS	HOUR
1	E 26	E 30	E 28	E 31	E 33	E 24	E 22	E 31	E 37	E 35	E 33	E 33	E 31	E 35	E 30	E 33	E 31	E 31	E 31	E 17	E 22	E 11	E 2	E 0	W 46	09 CST
2	W 13	W 13	W 11	W 9	W 0	W 0	W 7	W 7	W 7	W 11	W 9	W 7	W 15	W 15	W 13	W 9	W 19	W 19	W 24	W 13	W 7	W 13	W 0	W 6	N 39	17 CST
3	NNW 13	NNW 17	NNW 11	NNW 9	NNW 7	NNW 7	NNW 9	NNW 7	NNW 9	NNW 13	NNW 13	NNW 13	NNW 19	NNW 15	NNW 15	NNW 15	NNW 20	NNW 24	NNW 24	NNW 15	NNW 13	NNW 24	NNW 33	NNW 28	NNW 41	22 CST
4	N 19	N 15	N 17	N 17	N 20	N 24	N 30	N 31	N 33	N 31	N 28	N 28	N 28	N 28	N 28	N 30	N 30	N 30	N 24	N 17	N 15	N 11	N 0	N 6	NNE 46	11 CST
5	S 7	S 9	S 15	S 15	S 20	S 22	S 20	S 24	S 26	S 19	S 19	S 19	S 24	S 31	S 28	S 33	S 41	S 35	S 24	S 26	S 26	S 26	S 7	S 13	W 59	17 CST
6	C 0	C 7	C 9	C 13	C 13	C 7	C 33	C 31	C 37	C 30	C 33	C 33	C 39	C 33	C 41	C 37	C 33	C 35	C 30	C 24	C 19	C 19	C 19	C 19	NNE 57	06 CST
7	N 22	N 20	N 11	N 6	N 11	N 6	N 4	N 9	N 15	N 22	N 24	N 19	N 24	N 31	N 28	N 31	N 22	N 22	N 19	N 11	N 9	N 13	N 9	N 9	NNW 57	18 CST
8	C 0	C 0	C 7	C 9	C 15	C 24	C 33	C 33	C 33	C 30	C 28	C 26	C 26	C 26	C 28	C 22	C 26	C 22	C 24	C 17	C 13	C 6	C 0	C 6	ENE 41	09 CST
9	SSF 6	S 7	S 11	S 11	S 17	S 17	S 19	S 22	S 30	S 41	S 26	S 33	S 30	S 31	S 35	S 33	S 33	S 30	S 30	S 30	S 28	S 31	S 39	S 39	S 57	11 CST
10	S 30	S 31	S 26	S 11	S 11	S 15	S 22	S 19	S 19	S 22	S 17	S 31	S 30	S 30	S 31	S 37	S 33	S 26	S 30	S 24	S 24	S 35	S 30	S 19	WNW 57	15 CST
11	NNW 24	NNW 20	NNW 22	NNW 28	NNW 20	NNW 24	NNW 24	NNW 24	NNW 24	NNW 24	NNW 17	NNW 13	NNW 17	NNW 20	NNW 24	NNW 22	NNW 15	NNW 17	NNW 17	NNW 15	NNW 11	NNW 6	NNW 4	NNW 4	N 39	05 CST
12	NNW 9	NNW 11	NNW 9	NNW 13	NNW 7	NNW 0	NNW 0	NNW 7	NNW 11	NNW 6	NNW 11	NNW 11	NNW 6	NNW 9	NNW 13	NNW 13	NNW 15	NNW 15	NNW 15	NNW 13	NNW 9	NNW 7	NNW 7	NNW 7	ENE 41	16 CST
13	F 4	FSE 2	ENE 6	ENE 7	ENE 4	ENE 7	ENE 4	ENE 9	ENE 11	ENE 15	ENE 13	ENE 11	ENE 13	ENE 11	ENE 11	ENE 11	ENE 11	ENE 11	ENE 11	ENE 9	ENE 7	ENE 11	ENE 15	ENE 15	E 32	03 CST
14	SSF 22	SE 22	SE 24	SE 24	SE 24	SE 26	SE 9	SE 9	SE 20	SE 20	SE 28	SE 22	SE 28	SE 20	SE 22	SE 19	SE 22	SE 19	SE 20	SE 15	SE 22	SE 19	SE 22	SE 17	SE 35	10 CST
15	SSF 17	SSF 17	SSF 19	SSF 13	SSF 7	SSF 19	SSF 19	SSF 24	SSF 24	SSF 19	SSF 20	SSF 20	SSF 20	SSF 22	SSF 19	SSF 20	SSF 19	SSF 19	SSF 20	SSF 20	SSF 20	SSF 26	SSF 19	SSF 11	SE 33	10 CST

